

Inform comprehensively Install uncomplicated

Overview of products 2022



Explanation of symbols



Prices

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This printed version is not intended for consumers. Deliveries are made in accordance with our general terms of delivery and payment. The binding basis for the use and installation of the appliances are the printed documents included with the appliances, as well as the relevant regulations.

The editorial deadline for this printed version was 30/10/2021. The latest technical values can be found on our homepage at www.stiebel-eltron.com

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Ventilation with integral heat pump

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Accessories for ventilation with integral heat pump

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Accessories for central ventilation

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| FMK M5-2 180 | 234148 | 439 |
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Decentralised ventilation in non-residential buildings

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| CWM 2500 P | 200259 539 |) |
| CWM 3000 P | 200260 539 |) |
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| CNS 150 Trend M | 203641 543 | L |
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Rapid heater

| Rapid heater | | |
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Hand dryer, warm air

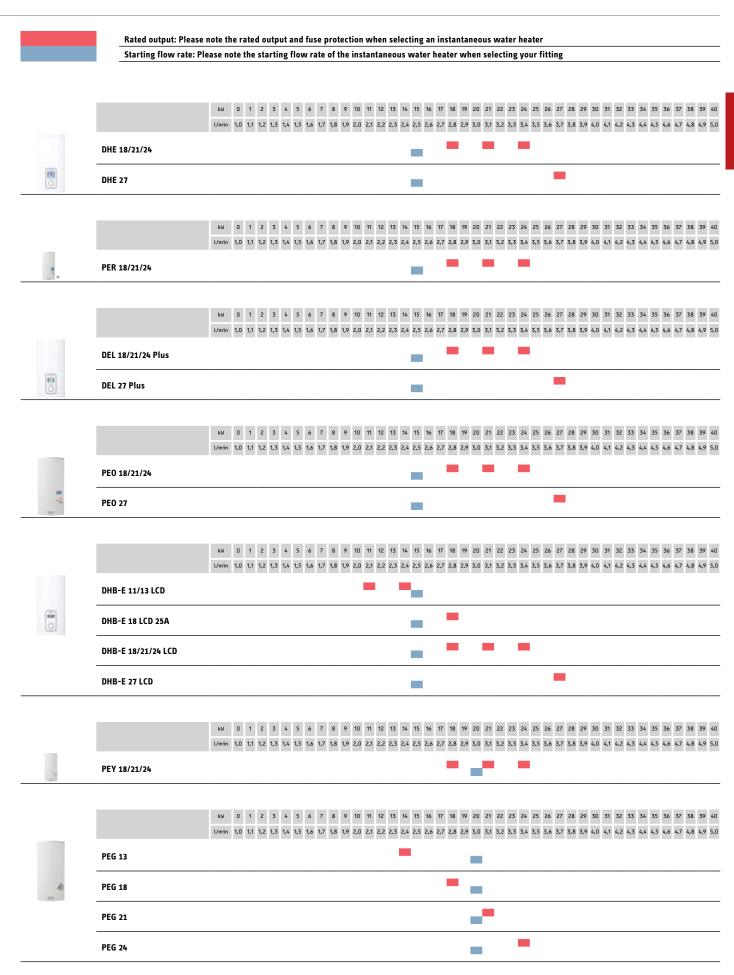
| Warm air | | |
|----------|----------|------|
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| HTE 4 | 073007 | 553 |
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Hand dryer, high speed

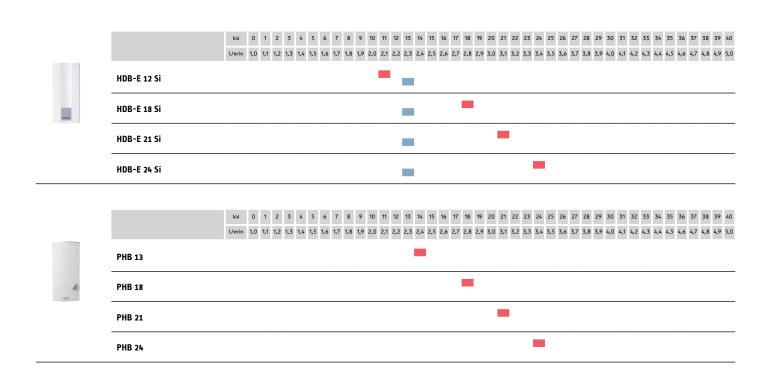
| High speed | | |
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Application areas



Application areas



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| | |

Comfort instantaneous water heaters

PER



PER 18/21/24

Benefits

- > Very high temperature convenience with this fully electronic instantaneous water heater
- > Consistent outlet temperatures regardless of fluctuations in pressure, inlet temperature or voltage
- Accurate temperature selection and 2-colour backlit, easy-to-read LCD
- > Very high shower convenience thanks to quick-acting control electronics
- > Precise water temperature at maximum flow rate thanks to processor-controlled motorised valve
- > Suitable for reheating water up to 60 °C, e.g. from solar thermal systems
- Multifunction display with backlighting
- > Display of temperature, flow rate, energy consumption or time
- > Two individually adjustable temperatures can be called up via memory buttons
- > Convenience functions: ECO button, automatic water volume control, shower program
- > Energy saving operation with ECO function
- > Electronic air bubble detection
- > Effective bare wire heating system

Application • The fully electronically controlled comfort instantaneous water heater supplies DHW conveniently and energy efficiently to multiple draw-off points, for example the bathroom and the kitchen. • This sealed unvented, pressure-tested appliance can be used with preheated water from a solar thermal system or heat pump and with all commercially available pressure taps.

Convenience features • The temperature can be accurately adjusted using the 2-colour backlit digital multifunction display. The temperature, flow rate, energy consumption and time are easy to read. • Two memory keys for custom setting of the preferred temperature. • The ECO button, automatic water volume control and shower program offer additional operating convenience. • Accurate temperature delivery at all times with demand-dependent flow rate thanks to processor-controlled motorised valve. • Wireless remote temperature control allows one-off temperature selection for the next draw-off. • The heat exchanger is made from glass fibre reinforced polyamide.

Efficiency • Individually selectable ECO mode for particularly energy efficient operation. • The accurate temperature delivery at all times and precise flow rate further increase the overall efficiency of the instantaneous water heater.

Installation • Easy connection to all commercially available sealed unvented taps. • Easy installation thanks to separate mounting plate and quick-release toggle. The installation template is included in the standard delivery. • Easy electrical connection from above or below. • The hood can be removed from the front with no screws. • Undersink installation is possible with the correct accessories.

Safety • Rapid bare wire heating system for hard and soft water. • The multi stage safety concept detects air bubbles in the system and automatically deactivates the appliance if the pressure is too high.

| | | PER 18/21/24 |
|-------------------|----|----------------|
| | | |
| Part number | | 233990 |
| Specification | | |
| Rated voltage | V | 400 |
| Rated voltage 1 | V | 380 |
| Rated voltage 2 | V | 400 |
| Rated voltage 3 | V | 415 |
| Rated output | kW | 18/21/24 |
| Rated output 1 | kW | 16.2/19/21.7 |
| Rated output 2 | kW | 18/21/24 |
| Rated output 3 | kW | 19.4/22.6/25.8 |
| Rated current | Α | 29/31/35 |
| Rated current 1 | Α | 27.6/29.5/33.3 |
| Rated current 2 | Α | 29/31/35 |
| Rated current 3 | Α | 30.1/32.2/36.3 |
| Fuse protection | Α | 32/32/35 |
| Fuse protection 1 | Α | 32/32/35 |
| Fuse protection 2 | Α | 32/32/35 |
| Fuse protection 3 | A | 32/32/40 |
| Frequency | Hz | 50/60 |
| Frequency 1 | Hz | 50/60 |
| Frequency 2 | Hz | 50/60 |
| Frequency 3 | Hz | 50/- |
| Phases | | 3/PE |

Comfort instantaneous water heaters

| esistivity ρ15 ≥ (at ∂cold ≤25 | Ωcm |
|--|-------------|
| C and 380 V) | |
| esistivity ρ15 ≥ (at ϑcold ≤25 C and 400 V) | Ω cm |
| esistivity p15 ≥ (at &cold ≤25 C and 415 V) | Ωcm |
| esistivity ρ15 ≥ (at ϑcold 45 °C and 380 V) | Ω cm |
| esistivity ρ15 ≥ (at ϑcold 45 °C and 400 V) | Ωcm |
| esistivity ρ15 ≥ (at ϑcold 45 °C and 415 V) | Ωcm |
| onductivity σ 15 ≤ (at ϑ cold 25 °C and 380 V) | μS/cm |
| onductivity σ 15 ≤ (at ϑ cold 25 °C and 400 V) | μS/cm |
| onductivity σ15 ≤ (at ϑcold 25 °C and 415 V) | μS/cm |
| onductivity σ15 ≤ (at ϑcold 45 °C and 380 V) | μS/cm |
| onductivity σ15 ≤ (at ϑcold 45 °C and 400 V) | μS/cm |
| onductivity σ15 ≤ (at ϑcold 45 °C and 415 V) | μS/cm |
| N | l/min |
| emperature setting | °C |
| olour | |
| eight | mm |
| /idth | mm |
| epth | mm |
| /eight | kg |
| nergy efficiency class | |

Comfort instantaneous water heaters

PE0



PEO 18/21/24

Benefits

- > Electronic instantaneous water heater for optimum temperature convenience
- > Consistent outlet temperatures regardless of fluctuations in pressure, inlet temperature or voltage
- > Temperature selection to the exact degree with easy to read LCD
- > Two-colour backlighting (blue/red)
- > Very high shower convenience thanks to quick-acting control electronics
-) Integral diagnostic system
- > Electronic air bubble detection
- > Effective bare wire heating system
- > Highly flexible installation thanks to selectable appliance output 18/21/24 kW in a single appliance (Product: 233991)

Application • The comfort instantaneous water heater is suitable for DHW supply to multiple draw-off points. • The sealed unvented, pressure-tested appliance can be combined with commercially available pressure taps.

Convenience features • The electronic control allows precise temperature selection. • The appliance is equipped with an easy to read, two-colour LCD. The display also acts as visual anti-scalding protection: At temperatures above 43 °C, the colour changes from blue to red.

Efficiency • Accurate temperature delivery thanks to the electronic control. • The instantaneous water heater is suitable for preheated water from solar thermal and heat pump systems. **strong>**

Installation • Easy installation thanks to separate mounting plate and twist lock. An installation template is included in the standard delivery. • The hood is removed from the front without any screws. • Electrical connection is from above or below via a fixed connection. • Suitable for undersink installation with the appropriate accessories. • Integral diagnostic system.

Safety • The bare wire heater is suitable for hard and soft water. • The multi-stage safety concept includes a safety high pressure switch and an electronic air bubble detection system.

| | | PEO 18/21/24 | PEO 27 |
|---|-----|----------------|--------|
| Part number | | 233991 | 233992 |
| Specification | | | |
| Rated voltage | ٧ | 400 | 400 |
| Rated voltage 1 | V | 380 | 380 |
| Rated voltage 2 | V | 400 | 400 |
| Rated voltage 3 | V | 415 | |
| Rated output | kW | 18/21/24 | 27 |
| Rated output 1 | kW | 16,2/19/21,7 | 24.4 |
| Rated output 2 | kW | 18/21/24 | 27 |
| Rated output 3 | kW | 19,4/22,6/25,8 | |
| Rated current | Α | 29/31/35 | 39 |
| Rated current 1 | Α | 27,6/29,5/33,3 | 37.1 |
| Rated current 2 | Α | 29/31/35 | 39 |
| Rated current 3 | Α | 30,1/32,2/36,3 | |
| Fuse protection | Α | 32/32/35 | 40 |
| Fuse protection 1 | Α | 32/32/35 | 40 |
| Fuse protection 2 | Α | 32/32/35 | 40 |
| Fuse protection 3 | Α | 32/32/40 | |
| Frequency | Hz | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 |
| Frequency 3 | Hz | 50/- | |
| Phases | | 3/PE | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C and 380 V) | Ωcm | 900 | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 400 V) | Ωcm | 900 | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 415 V) | Ωcm | 1000 | |

Comfort instantaneous water heaters

| | | PEO 18/21/24 | PEO 27 |
|--|-------------|---------------|---------|
| | | 1 EU 10/21/24 | 11027 |
| Resistivity p15 ≥ (at &cold ≤45 °C and 380 V) | Ω cm | 1200 | 1200 |
| Resistivity p15 ≥ (at &cold ≤45 °C and 400 V) | Ω cm | 1200 | 1200 |
| Resistivity p15 ≥ (at &cold ≤45 °C and 415 V) | Ω cm | 1300 | |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 380 V) | μS/cm | 1111 | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 400 V) | μS/cm | 1111 | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 415 V) | μS/cm | 1000 | |
| Conductivity σ 15 ≤ (at ϑ cold ≤45 °C and 380 V) | μS/cm | 833 | 833 |
| Conductivity σ 15 ≤ (at ϑ cold ≤45 °C and 400 V) | μS/cm | 833 | 833 |
| Conductivity σ 15 ≤ (at ϑ cold ≤45 °C and 415 V) | μS/cm | 770 | |
| ON | l/min | >2,5 | >2.5 |
| IP rating | | IP 25 | IP 25 |
| Temperature setting | °C | 30 - 60 | 30 - 60 |
| Colour | | white | white |
| Height | mm | 485 | 485 |
| Width | mm | 226 | 226 |
| Depth | mm | 93 | 93 |
| Weight | kg | 3.60 | 3.60 |
| Energy efficiency class | | A | A |

Comfort instantaneous water heaters

DHB-E LCD



DHB-E 11/13 LCD

Benefits

- > Maximum energy efficiency.and accurate temperature delivery with 3i technology and electronic control
- > Temperature shown on the LCD
- > Precise temperature selection via rotary selector
- > Suitable for preheated water from solar thermal systems and heat pumps, up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
-) Greater convenience when installed undersink, since the appliance cover and the programming unit can be turned the other way
- > Quick installation with PROFI-RAPID
- > High safety level as anti-scalding protection can be permanently activated
- > Wide selection of models
- > Optimum solution for the kitchen sink, with selectable 11 or 13.5 kW output (Product: 236743)
- > Suitable for system with 25 A fuse protection (Product: 236744)
- > Highly flexible installation thanks to selectable appliance output 18/21/24 kW in a single appliance (Product: 236745)

Application • The comfort instantaneous water heater supplies DHW simultaneously to multiple draw-off points, for example the bathroom and the kitchen. • The sealed unvented, pressure-tested appliance can be used with all commercially available pressure taps.

Convenience features • The electronically controlled instantaneous water heater ensures accurate temperature delivery up to the maximum output. • The temperature can be variably and digitally adjusted via a rotary selector and displayed on the LCD. • An optional convenient remote control can be added. • To ensure highly convenient undersink installation, both the appliance cover and the programming unit can be turned the other way up.

Efficiency • The appliance ensures energy and water savings of up to 30 % through electronic output control with 3i technology. 3 sensors ensure that the selected temperature is accurately delivered up to the output limit. For this, only the amount of energy actually required is expended. There is no need to add cold water at the tap, which leads to very good energy efficiency. • The appliance is suitable for preheated water, for example from solar thermal and heat pump systems.

Installation Quick and easy installation with the improved PROFI-RAPID installation system. Straightforward replacement for all standard instantaneous water heaters. For fast wall mounting, the standard delivery includes a universal mounting rail designed to match commonly used fixing points, which in addition compensates for unevenness in the wall and drill hole discrepancies. • Fast, universal water connection thanks to enlarged installation area with pivoting cold water inlet and threaded water fittings. • Twin nipple connections for easy replacement. • Option of surface or flush mounting with 3-way shut-off. The instantaneous water heater can be connected to plastic pipework, in compliance with the manufacturer's instructions. • Electrical connection can be made from above and below; a cable entry gland is provided for the cable.

Service • Rapid fault analysis with integral LED diagnostic traffic lights. • The internal assembly can be removed with just one hand movement.

Safety • The quick-action bare wire heating system is suitable for hard and soft water. • Electronic safety concept with air bubble detection. • Anti-scalding protection is set by the installer, through permanent limitation of the water outlet temperature.





| | | DHB-E 11/13 LCD | DHB-E 18 LCD 25A | DHB-E 18/21/24 LCD | DHB-E 27 LCD |
|-----------------|----|-----------------|------------------|--------------------|--------------|
| Part number | | 236743 | 236744 | 236745 | 236746 |
| | | | | | |
| Specification | | | | | |
| Rated voltage | V | 400 | 400 | 400 | 400 |
| Rated voltage 1 | V | 380 | 380 | 380 | 380 |
| Rated voltage 2 | V | 400 | 400 | 400 | 400 |
| Rated voltage 3 | V | 415 | 415 | 415 | |
| Rated output | kW | 11/13.5 | 18 | 18/21/24 | 27 |
| Rated output 1 | kW | 9.9/12.2 | 16.2 | 16.2/19/21.7 | 24.4 |
| Rated output 2 | kW | 11/13.5 | 18 | 18/21/24 | 27 |
| Rated output 3 | kW | 11.8/14.5 | 19.4 | 19.4/22.6/25.8 | |
| Rated current | Α | 17.5/19.5 | 26 | 29/31/35 | 39 |

Comfort instantaneous water heaters

| | | DHB-E 11/13 LCD | DHB-E 18 LCD 25A | DHB-E 18/21/24 LCD | DHB-E 27 LCD |
|----------------------------|-------|--|--|--|--|
| Rated current 1 | Α | 16.6/18.5 | 24.7 | 27.6/29.5/33.3 | 37.1 |
| Rated current 2 | Α | 17.5/19.5 | 26 | 29/31/35 | 39 |
| Rated current 3 | Α | 18.2/20 | 27 | 30.1/32.2/36.3 | |
| Fuse protection | Α | 20 | 25 | 32/32/35 | 40 |
| Fuse protection 1 | Α | 20 | 25 | 32/32/35 | 40 |
| Fuse protection 2 | Α | 20 | 25 | 32/32/35 | 40 |
| Fuse protection 3 | Α | 20 | 32 | 32/32/40 | |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 3 | Hz | 50/- | 50/- | 50/- | |
| Phases | | 3/PE | 3/PE | 3/PE | 3/PE |
| Resistivity p15 ≥ | Ωcm | 900 | 900 | 900 | 900 |
| Conductivity σ 15 ≤ | μS/cm | 1111 | 1111 | 1111 | 1111 |
| ON | I/min | >2,5 | >2.5 | >2.5 | >2.5 |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Temperature setting | °C | 20-60 | 20-60 | 20-60 | 20-60 |
| Colour | | white | white | white | white |
| Height | mm | 466 | 466 | 466 | 466 |
| Width | mm | 225 | 225 | 225 | 225 |
| Depth | mm | 116 | 116 | 116 | 116 |
| Weight | kg | 2.80 | 2.90 | 2.90 | 2.90 |
| Energy efficiency class | | A | <u>A</u> | <u>A</u> | A |
| Recommended accessories | | | | | |
| Part number | | 234478 | 234478 | 234478 | 234478 |
| Туре | | FFB 4 EU | FFB 4 EU | FFB 4 EU | FFB 4 EU |
| Description | | Wireless remote control for electronic instantaneous water heaters |
| Part number | | 238930 | 238930 | 238930 | 238930 |
| Туре | | FFB 4 Set EU |
| Description | | Wireless remote control for electronic instantaneous water heaters | Wireless remote control for electronic instantaneous water heaters | Wireless remote control for electronic instantaneous water heaters | Wireless remote control for electronic instantaneous water heaters |

Comfort instantaneous water heaters

PEY



PEY 18/21/24

Benefits

- Accurate temperature delivery up to the output limit with electronic control
- > Consistent outlet temperatures regardless of fluctuations in pressure, inlet temperature or voltage
- > Temperature setting 30-60 °C
- > Highly stable temperatures are ensured by the quick-acting control electronics
- > Electronic air bubble detection
- > Effective bare wire heating system
- > Highly flexible installation thanks to selectable appliance output 18/21/24 kW in a single appliance (Product: 233993)

Application • The electronically controlled comfort instantaneous water heater supplies DHW conveniently and energy efficiently to multiple draw-off points, for example the bathroom and the kitchen. • The sealed unvented, pressure-tested appliance can be connected to all commercially available pressure taps, and can also be used with preheated water from solar thermal systems or heat pumps.

Convenience features • Electronically controlled instantaneous water heater with quick-acting control electronics and integral diagnostic system. • Variable temperature selection is possible via a rotary selector with an analogue scale on the appliance.

Efficiency • Energy saving operation with accurate temperature delivery.

Installation • Easy connection to all commercially available sealed unvented taps. • Easy installation thanks to separate mounting plate and twist lock. The installation template is included in the standard delivery. • The appliance is connected from above or below via a fixed electrical connection. • The hood is removed from the front with no screws. • Undersink installation is possible with suitable accessories.

Service • Rapid fault analysis with integral diagnostic system.

Safety • Bare wire heating system for hard and soft water. • The multi stage safety concept detects air bubbles in the system and automatically deactivates the appliance if the pressure is too high.

| | | PEY 18/21/24 |
|---|-----|----------------|
| Part number | | 233993 |
| Specification | | |
| Rated voltage | V | 400 |
| Rated voltage 1 | V | 380 |
| Rated voltage 2 | V | 400 |
| Rated voltage 3 | V | 415 |
| Rated output | kW | 18/21/24 |
| Rated output 1 | kW | 16.2/19/21.7 |
| Rated output 2 | kW | 18/21/24 |
| Rated output 3 | kW | 19.4/22.6/25.8 |
| Rated current | Α | 29/31/35 |
| Rated current 1 | Α | 27.6/29.5/33.3 |
| Rated current 2 | Α | 29/31/35 |
| Rated current 3 | Α | 30.1/32.2/36.3 |
| Fuse protection | Α | 32/32/35 |
| Fuse protection 1 | Α | 32/32/35 |
| Fuse protection 2 | Α | 32/32/35 |
| Fuse protection 3 | Α | 32/32/40 |
| Frequency | Hz | 50/60 |
| Frequency 1 | Hz | 50/60 |
| Frequency 2 | Hz | 50/60 |
| Frequency 3 | Hz | 50/- |
| Phases | | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C and 380 V) | Ωcm | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 400 V) | Ωcm | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 415 V) | Ωcm | 1000 |

Comfort instantaneous water heaters

| Resistivity p15 ≥ (at &cold ≤45 °C and 380 V) | Ωcm |
|--|-------------|
| Resistivity p15 ≥ (at &cold ≤45 °C and 400 V) | Ωcm |
| Resistivity p15 ≥ (at &cold ≤45 °C and 415 V) | Ω cm |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 380 V) | μS/cm |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 400 V) | μS/cm |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 415 V) | μS/cm |
| Conductivity σ 15 ≤ (at ϑ cold ≤45 °C and 380 V) | μS/cm |
| Conductivity σ15 ≤ (at ϑcold ≤45 °C and 400 V) | μS/cm |
| Conductivity σ 15 \leq (at ϑ cold \leq 45 °C and 415 V) | μS/cm |
| ON | I/min |
| Temperature setting | °C |
| Colour | |
| Height | mm |
| Width | mm |
| Depth | mm |
| Weight | kg |
| Energy efficiency class | |

Electronic open-loop control

PEG



PEG 13

Benefits

- > Hot water at the preferred temperature due to electronic control
- > Two fixed temperatures with application symbols
- > Largely consistent outlet temperatures in the event of pressure or supply temperature fluctuations
- > Electronic air bubble detection
- > Effective bare wire heating system

Application • The electronically controlled comfort instantaneous water heater supplies DHW energy-efficiently even to multiple draw-off points, for example the bathroom and the kitchen. • The sealed unvented, pressure-tested appliance can be connected to all commercially available pressure taps.

Convenience features • Two temperatures are permanently set and indicated by application symbols on the appliance.

Efficiency • Energy saving operation even with fluctuating water pressure or inlet temperature. Quick acting control electronics keep the temperature of the DHW largely consistent, which enhances the efficiency of the system.

Installation • Easy connection to all commercially available sealed unvented taps. • Easy installation thanks to separate mounting plate with twist lock. The installation template is included in the standard delivery. • The power supply is via a fixed connection from above or below. • The hood can be removed from the front with no screws. • Undersink installation is possible with the correct accessories.

Service • Rapid fault analysis with integral diagnostic system.

Safety • The bare wire heating system is suitable for hard and soft water. • The multi stage safety concept detects air bubbles in the system and automatically deactivates the appliance if the pressure is too high.

| | | PEG 13 | PEG 18 | PEG 21 | PEG 24 |
|---|-------|---------|---------|---------|---------|
| Part number | | 233994 | 233995 | 233996 | 233997 |
| Specification | | | | | |
| Rated voltage | V | 400 | 400 | 400 | 400 |
| Rated voltage 1 | V | 380 | 380 | 380 | 380 |
| Rated voltage 2 | V | 400 | 400 | 400 | 400 |
| Rated output | kW | 13.5 | 18 | 21 | 24 |
| Rated output 1 | kW | 12.2 | 16.2 | 19 | 21.7 |
| Rated output 2 | kW | 13.5 | 18 | 21 | 24 |
| Rated current | Α | 19.5 | 26 | 31 | 35 |
| Rated current 1 | Α | 18.5 | 24.7 | 29.5 | 33.3 |
| Rated current 2 | Α | 19.5 | 26 | 31 | 35 |
| Fuse protection | Α | 20 | 25 | 32 | 35 |
| Fuse protection 1 | Α | 20 | 25 | 32 | 35 |
| Fuse protection 2 | Α | 20 | 25 | 32 | 35 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Phases | | 3/PE | 3/PE | 3/PE | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C and 380 V) | Ωcm | 1100 | 1100 | 1100 | 1100 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 400 V) | Ωcm | 1100 | 1100 | 1100 | 1100 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 380 V) | μS/cm | 900 | 900 | 900 | 900 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 400 V) | μS/cm | 900 | 900 | 900 | 900 |
| ON | I/min | >3.0 | >3.0 | >3.0 | >3.0 |
| Temperature setting | °C | 42 - 55 | 42 - 55 | 42 - 55 | 42 - 55 |
| Colour | | white | white | white | white |
| Height | mm | 485 | 485 | 485 | 485 |
| Width | mm | 226 | 226 | 226 | 226 |
| Depth | mm | 93 | 93 | 93 | 93 |
| Weight | kg | 3.60 | 3.60 | 3.60 | 3.60 |
| Energy efficiency class | | А | Α | А | А |

Electronic open-loop control

HDB-E Si



HDB-E 12 Si

Benefits

- > Good energy efficiency and constant preferred temperature delivery with 2i technology and electronic open-loop control
- > Temperature permanently set to 55 °C
- > Quick installation with PROFI-RAPID
- > Electronic air detection system

Application • The comfort instantaneous water heater supplies DHW simultaneously to multiple draw-off points, for example the bathroom and the kitchen. The sealed unvented, pressure-tested appliance can be used with all commercially available pressure taps.

Convenience features • The electronically controlled instantaneous water heater supplies DHW at constant preset temperatures ranging from 55 °C to the maximum output.

Efficiency • 2i technology with 2 sensors ensures that the preset temperature is reached up to the output limit. For this, only the amount of energy actually required is expended, which leads to higher energy efficiency.

Installation • Time saving installation thanks to the PROFI-RAPID installation system. Straightforward replacement for all standard instantaneous water heaters. For simple wall mounting, the standard delivery includes a universal mounting rail designed to match commonly used fixing points, which in addition compensates for unevenness in the wall and drill hole discrepancies. • Quick and universal water connection thanks to freely accessible and generous installation area for threaded water fittings. Twin nipple connections for easy replacement. Option of surface or flush mounting with 3-way shut-off. The instantaneous water heater can be connected to plastic pipework, in compliance with the manufacturer's instructions. • Various flow limiters are included in the standard delivery. • Electrical connection can be made from above and below; a cable entry gland is provided for the cable. Rapid fault analysis with LED diagnostic traffic lights. • The back panel and complete internal assembly can be removed with just one hand movement.

Safety • The quick-action bare wire heating system is suitable for hard or soft water. • The multi-stage safety concept comprises a high limit safety cut-out, high pressure switch and electronic air bubble detection system.





| | | HDB-E 12 Si | HDB-E 18 Si | HDB-E 21 Si | HDB-E 24 Si |
|---|-------|-------------|-------------|-------------|-------------|
| Part number | | 232003 | 232004 | 232005 | 232006 |
| Specification | | | | | |
| Rated voltage | V | 400 | 400 | 400 | 400 |
| Rated voltage 1 | V | 380 | 380 | 380 | 380 |
| Rated voltage 2 | ٧ | 400 | 400 | 400 | 400 |
| Rated output | kW | 10.7 | 18 | 21 | 24 |
| Rated output 1 | kW | 9.7 | 16.2 | 19 | 21.7 |
| Rated output 2 | kW | 10.7 | 18 | 21 | 24 |
| Rated current | Α | 16 | 26 | 31 | 35 |
| Rated current 1 | Α | 14.4 | 24.7 | 29.5 | 33.3 |
| Rated current 2 | Α | 15.5 | 26 | 31 | 35 |
| Fuse protection | Α | 16 | 25 | 32 | 35 |
| Fuse protection 1 | Α | 16 | 25 | 32 | 35 |
| Fuse protection 2 | Α | 16 | 25 | 32 | 35 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Phases | | 3/PE | 3/PE | 3/PE | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C) | Ωcm | 1100 | 1100 | 1100 | 1100 |
| Specific conductivity σ 15 \leq (at ϑ cold \leq 25 °C) | μS/cm | 910 | 910 | 910 | 910 |
| ON | l/min | >2.3 | >2.3 | >2.3 | >2.3 |
| Temperature setting | °C | 55 | 55 | 55 | 55 |
| Colour | | white | white | white | white |

Comfort instantaneous water heaters

Electronic open-loop control

| | | HDB-E 12 Si | HDB-E 18 Si | HDB-E 21 Si | HDB-E 24 Si |
|-------------------------|----|-------------|-------------|-------------|-------------|
| Height | mm | 470 | 470 | 470 | 470 |
| Width | mm | 225 | 225 | 225 | 225 |
| Depth | mm | 117 | 117 | 117 | 117 |
| Weight | kg | 3.50 | 3.60 | 3.60 | 3.60 |
| Energy efficiency class | | А | A | А | Α |

Comfort instantaneous water heaters

Hydraulic control

PHB



PHB 13

Benefits

- > Constant water temperatures thanks to hydraulic control
-) 4 output stages 2 manually selectable, 2 hydraulically controlled, depending on flow rate
- > Pressure-controlled safety concept
- > Effective bare wire heating system

Application • The comfort instantaneous water heater is hydraulically controlled and supplies multiple draw-off points with DHW. • The sealed unvented, pressure-tested appliance can be connected to all commercially available pressure taps.

Convenience features • Hydraulically controlled instantaneous water heater with two automatic and two manual output stages for 1/3, 1/2, 2/3 or 1/1 of the maximum output. • The integral pressure differential switch controls the output depending on the flow rate. • Precise preferred temperature achieved by mixing with cold water at the tap.

Efficiency • Energy saving operation thanks to different output stages, regulated according to the flow rate. The appliance achieves efficiency values within the standard range.

Installation • Easy connection to all commercially available sealed unvented taps. • Easy installation thanks to separate mounting plate with twist lock. The installation template is included in the standard delivery. • The appliance is connected to the power supply from above or below via a fixed electrical connection. • The hood is removed from the front without any screws. • Undersink installation is possible with suitable accessories.

Safety • Rapid bare wire heating system for hard and soft water. • A pressure limiter switches the appliance off automatically.

| | | PHB 13 | PHB 18 | PHB 21 | PHB 24 |
|---|-------|--------|--------|--------|--------|
| Part number | | 233998 | 233999 | 234000 | 234001 |
| Specification | | | | | |
| Rated voltage | ٧ | 400 | 400 | 400 | 400 |
| Rated voltage 1 | V | 380 | 380 | 380 | 380 |
| Rated voltage 2 | V | 400 | 400 | 400 | 400 |
| Rated output | kW | 13.5 | 18 | 21 | 24 |
| Min. rated output 380 V stage I | kW | 4.20 | 5.70 | 6.70 | 7.50 |
| Max. rated output 380 V stage I | kW | 9.60 | 12.90 | 15.20 | 17.10 |
| Min. rated output 380 V stage II | kW | 6.10 | 8.30 | 9.70 | 11.00 |
| Max. rated output 380 V stage II | kW | 12.20 | 16.30 | 19.00 | 21.70 |
| Min. rated output 400 V stage I | kW | 4.60 | 6.30 | 7.40 | 8.30 |
| Max. rated output 400 V stage I | kW | 10.60 | 14.30 | 16.80 | 19.00 |
| Min. rated output 400 V stage II | kW | 6.80 | 9.20 | 10.80 | 12.20 |
| Max. rated output 400 V stage II | kW | 13.50 | 18.00 | 21.00 | 24.00 |
| Rated output 1 | kW | 12.2 | 16.2 | 19 | 21.7 |
| Rated output 2 | kW | 13.5 | 18 | 21 | 24 |
| Rated current | Α | 19.5 | 26 | 31 | 35 |
| Rated current 1 | Α | 18,5 | 24.7 | 29.5 | 33.3 |
| Rated current 2 | A | 19,5 | 26 | 31 | 35 |
| Fuse protection | Α | 20 | 25 | 32 | 35 |
| Fuse protection 1 | Α | 20 | 25 | 32 | 35 |
| Fuse protection 2 | A | 20 | 25 | 32 | 35 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Phases | | 3/PE | 3/PE | 3/PE | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C) | Ωcm | 900 | 900 | 900 | 900 |
| Specific conductivity σ15 ≤ (at ϑcold ≤ 25 °C) | μS/cm | 1111 | 1111 | 1111 | 1111 |
| Max. permissible inlet tem- perature | °C | 25 | 25 | 25 | 25 |
| ON stage I | l/min | 2,4 | 3,0 | 3,5 | 4,1 |
| ON 2nd stage | l/min | 3,9 | 4,9 | 5,6 | 6,3 |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |

Comfort instantaneous water heaters

Hydraulic control

| | | PHB 13 | PHB 18 | PHB 21 | PHB 24 |
|-------------------------|----|--------|--------|--------|--------|
| Colour | | white | white | white | white |
| Height | mm | 485 | 485 | 485 | 485 |
| Width | mm | 226 | 226 | 226 | 226 |
| Depth | mm | 93 | 93 | 93 | 93 |
| Weight | kg | 3.60 | 3.60 | 3.60 | 3.60 |
| Energy efficiency class | | А | A | A | A |

Accessories for comfort instantaneous water heaters

| Wireless remote controls Accessories | 39 | |
|--------------------------------------|----|--|
| Accessories | | |
| Accessories | 40 | |
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Accessories for comfort instantaneous water heaters

Wireless remote controls

FFB 4



Benefits

- > Additional wireless remote control with large LCD
- > Variable temperature selection from 20 °C to 60 °C
- > FFB 4 EU as second or additional wireless remote control (Product: 234478)
- > FFB 4 Set EU incl. wireless adaptor as basic equipment (Product: 238930)

Application • The wireless remote control enables convenient operation of the comfort instantaneous water heater. It can be sited anywhere in a bathroom or kitchen using a wall mounting bracket. Preferred temperatures can be set very easily using the plus or minus buttons or the programmable memory buttons. • The remote control is protected against moisture and can even be used in the shower. It is equipped with a large, easily readable LCD, and the power save mode ensures longer battery life.

FFB 4 EU

| | | FFB 4 EU | FFB 4 Set EU |
|-----------------|----|----------|--------------|
| Part number | | 234478 | 238930 |
| Specification | | | |
| IP rating | | IP X7 | IP X7 |
| Width | mm | 65 | 65 |
| Height | mm | 132 | 132 |
| Height Depth | mm | 18,5 | 18,5 |

Battery and wall mounting bracket included in the standard delivery.

Accessories for comfort instantaneous water heaters

Accessories

LR 1-A



Benefits

- > Load shedding relay for priority control
-) Installed dimension = one horizontal pitch as defined by DIN 43880

Automatic load shedding relay for priority control, e.g. in conjunction with electric storage heaters or to interlock two instantaneous water heaters with each other. The installed dimension corresponds to one horizontal pitch as defined by DIN 43880.

LR 1-A

| | | LR 1-A |
|--|---|----------|
| Part number | | 001786 |
| | | |
| Specification | | |
| Installation type | | DIN rail |
| Installation type Breaking capacity | Α | 1 |

ZTA 3/4



Benefits

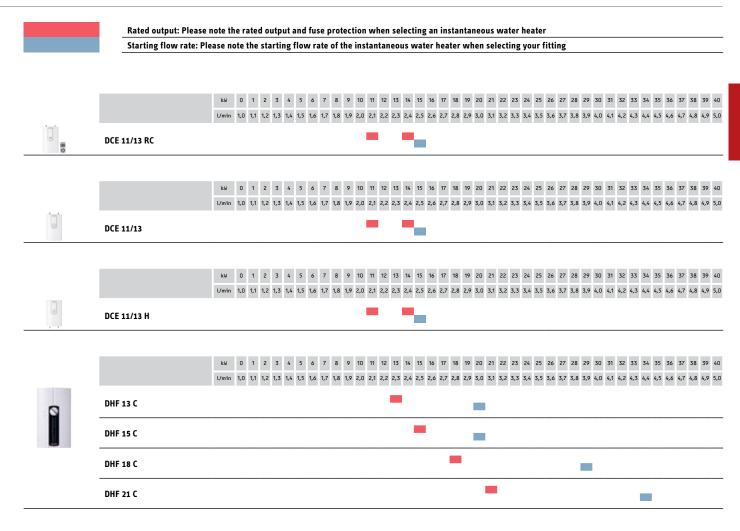
- > Protects downstream appliances against high inlet temperatures
- > Enables the use of hydraulic instantaneous water heaters in shower applications

Thermostatic valve for central premixing. The valve is used with electronic instantaneous water heaters for anti-scalding protection when using preheated water, or with hydraulic instantaneous water heaters for shower applications.

ZTA 3/4

| | | ZTA 3/4 |
|---------------------------|-----|---------|
| Part number | | 073864 |
| | | |
| Specification | | |
| Max. permissible pressure | MPa | 1.00 |
| Water connection | | G 3/4 A |

Application areas



| Electronic closed-loop contro DCE 11/13 RC DCE 11/13 DCE 11/13 H Hydraulic control DHF C | ol. | | 43 45 47 49 | |
|---|-----|--|----------------------|--|
| | | | | |
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Electronic closed-loop control

DCE 11/13 RC



DCE 11/13 RC

Benefits

- > Exceptionally slimline, compact design
- > Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- > Standard delivery includes wireless remote control with two temperature memory keys
- > Quick installation with PROFI-RAPID
- > Multi stage electronic safety concept
- Undersink installation
- > Selectable connected load 11 kW or 13.5 kW

Application • The electronically controlled instantaneous water heater takes up very little space in the kitchen due to its compact design. The appliance is uniquely flat thanks to its low installation depth, making it ideal for space saving installation under the kitchen sink. • In commercial settings, it is suitable for cleaning rooms or sanitary facilities with multiple hand washbasins. • International: With high inlet temperatures, also suitable for showers.

Convenience features • 3i technology ensures that the preferred temperature is accurately reached up to the output limit. • The bare wire heating system means that the water is heated fast. Electronic control keeps the preferred temperature constant up to the output limit. • The connected load can be selected easily on the device and the preferred temperature is set accurately using the wireless remote control.

Efficiency • 3i technology ensures energy and water savings of up to 30 % through electronic output control. 3 sensors ensures that the set temperature is accurately reached up to the output limit. Energy savings are further assured by the appliance only using the amount of energy it actually requires. There is no need to add cold water at the tap, which additionally enhances the overall efficiency of the appliance. • Suitable for operation with preheated water from solar thermal systems or heat pumps. • Water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework.

Installation • Quick and easy installation using the improved PROFI-RAPID installation system. • The universal mounting rail compensates for unevenness in the wall and drill hole discrepancies and is designed to match commonly used fixing points. • Straightforward, stable wall mounting: Direct fitting through the appliance back panel makes it easy to compensate for any unevenness in the wall or for drill hole discrepancies. • Fast, universal water connection from above through external 3/8" connections. Can be installed with a non-pressurised or pressure-tested tap and with plastic pipework. • Simple electrical connection, as the power cable is prepared for permanent connection as standard; the cable is included in the standard delivery. Upward cable routing avoids cabling in visible lower areas. • The installer can adjust the output individually. • Fast fault analysis with LED diagnostic traffic lights. • The appliance cover and the internal assembly can be completely removed from the back panel without tools.

Safety • The bare wire heating system is suitable for hard and soft water. • The installer can activate anti-scalding protection in order to permanently limit the water outlet temperature. • The multi-stage electronic safety concept comprises a high limit safety cut-out, sensor controlled monitoring of heating element temperature, and air bubble detection.





| | | DCE 11/13 RC |
|-------------------|----|-----------------------|
| Part number | | 230771 |
| | | |
| Specification | | |
| Rated voltage | V | 400 |
| Rated voltage 1 | V | 380 |
| Rated voltage 2 | V | 400 |
| Rated voltage 3 | V | 415 |
| Rated output | kW | 11.2/13.5 |
| Rated output 1 | kW | 10.1/12.2 |
| Rated output 2 | kW | 11.2/13.5 |
| Rated output 3 | kW | 12.1/14.5 |
| Rated current | A | 18.7/19.5 |
| Rated current 1 | Α | 17.8/18.5 |
| Rated current 2 | A | 18.7/19.5 |
| Rated current 3 | A | 19.4/20.2 |
| Fuse protection | Α | 16/20 |
| Fuse protection 1 | A | 16/20 |
| Fuse protection 2 | Α | 16/20 |
| | | Continue on next need |

Continue on next page >

Compact instantaneous water heaters, 3-phase Electronic closed-loop control

| | | DCE 11/13 RC |
|---|-------|--------------|
| Fuse protection 3 | A | 20/20 |
| Frequency | Hz | 50/60 |
| Frequency 1 | Hz | 50/60 |
| Frequency 2 | Hz | 50/60 |
| Frequency 3 | Hz | 50/- |
| Phases | | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C and 380 V) | Ω cm | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 400 V) | Ω cm | 900 |
| Resistivity $\rho 15 \ge$ (at ϑ cold ≤ 25 °C and 415 V) | Ω cm | 900 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 380 V) | Ωст | 1100 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 400 V) | Ωст | 1100 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 415 V) | Ω ст | 1100 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 380 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 400 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 415 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 380 V) | μS/cm | 909 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 400 V) | μS/cm | 909 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 415 V) | μS/cm | 909 |
| ON | I/min | >2.5 |
| IP rating | | IP 24 |
| Temperature setting | °C | 20-60 |
| Colour | | white |
| Height | mm | 293 |
| Width | mm | 188 |
| Depth | mm | 85 |
| Weight | kg | 2.40 |
| Energy efficiency class | | A |

Electronic closed-loop control

DCE 11/13



DCE 11/13

Benefits

- > Exceptionally slimline, compact design
- > Particularly convenient and energy efficient thanks to electronic output control with 3i technology
-) Quick installation with PROFI-RAPID
- Undersink installation
- Multi stage electronic safety concept
- > Selectable connected load 11 kW or 13.5 kW

Application • The electronically controlled instantaneous water heater needs very little space due to its compact design. The appliance is uniquely flat thanks to its low installation depth, making it ideal for space saving installation under a washbasin or kitchen sink. • In commercial settings, it is suitable for cleaning rooms or sanitary facilities with multiple hand washbasins. • International: With high inlet temperatures, also suitable for showers.

Convenience features • 3i technology ensures that the preferred temperature is accurately reached up to the output limit. • The bare wire heating system means that the water is heated fast. Electronic control keeps the preferred temperature constant up to the output limit. • The connected load can be easily selected on the appliance and the preferred temperature is variably adjusted via a rotary selector.

Efficiency • 3i technology ensures energy and water savings of up to 30 % through electronic output control. 3 sensors ensures that the set temperature is accurately reached up to the output limit. Energy savings are further assured by the appliance only using the amount of energy it actually requires. There is no need to add cold water at the tap, which additionally enhances the overall efficiency of the appliance. • Suitable for operation with preheated water from solar thermal systems or heat pumps. • Water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework.

Installation • Quick and easy installation using the improved PROFI-RAPID installation system. • The universal mounting rail compensates for unevenness in the wall and drill hole discrepancies and is designed to match commonly used fixing points. • Straightforward, stable wall mounting: Direct fitting through the appliance back panel makes it easy to compensate for any unevenness in the wall or for drill hole discrepancies. • Fast, universal water connection from above through external 3/8" connections. Can be installed with a non-pressurised or pressure-tested tap and with plastic pipework. • Simple electrical connection, as the power cable is prepared for permanent connection as standard; the cable is included in the standard delivery. Upward cable routing avoids cabling in visible lower areas. • The installer can adjust the output individually. • Fast fault analysis with LED diagnostic traffic lights. • The appliance cover and the internal assembly can be completely removed from the back panel without tools.

Safety • The bare wire heating system is suitable for hard and soft water. • The installer can activate anti-scalding protection in order to permanently limit the water outlet temperature. • The multi-stage electronic safety concept comprises a high limit safety cut-out, sensor controlled monitoring of heating element temperature, and air bubble detection.





| | | DCE 11/13 |
|-------------------|----------|-----------|
| Part number | | 230770 |
| | | |
| Specification | | |
| Rated voltage | V | 400 |
| Rated voltage 1 | V | 380 |
| Rated voltage 2 | V | 400 |
| Rated voltage 3 | V | 415 |
| Rated output | kW | 11.2/13.5 |
| Rated output 1 | kW | 10,1/12,2 |
| Rated output 2 | kW | 11,2/13,5 |
| Rated output 3 | kW | 12.1/14.5 |
| Rated current | A | 18.7/19.5 |
| Rated current 1 | A | 17,8/18,5 |
| Rated current 2 | A | 18,7/19,5 |
| Rated current 3 | A | 19,4/20,2 |
| Fuse protection | <u> </u> | 16/20 |
| Fuse protection 1 | A | 16/20 |
| Fuse protection 2 | Α | 16/20 |

Compact instantaneous water heaters, 3-phase Electronic closed-loop control

| | | DCE 11/13 |
|---|--------|-----------|
| Fuse protection 3 | A | 20/20 |
| Frequency | Hz | 50/60 |
| Frequency 1 | Hz | 50/60 |
| Frequency 2 | Hz | 50/60 |
| Frequency 3 | Hz | 50/- |
| Phases | | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C and 380 V) | Ω ст | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 400 V) | Ω ст | 900 |
| Resistivity $\rho 15 \ge$ (at ϑ cold ≤ 25 °C and 415 V) | Ω cm | 900 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 380 V) | Ω cm | 1100 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 400 V) | Ω ст | 1100 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 415 V) | Ωст | 1100 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 380 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 400 V) | μS/cm | 1111 |
| Conductivity | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 380 V) | μS/cm | 909 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 400 V) | μS/cm | 909 |
| Conductivity | μS/cm | 909 |
| ON | I/min_ | >2,5 |
| IP rating | | IP 24 |
| Temperature setting | °C | 20 - 60 |
| Colour | | white |
| Height | mm | 293 |
| Width | mm | 188 |
| Depth | mm | 99 |
| Weight | kg | 2.10 |
| Energy efficiency class | | A |

Electronic closed-loop control

DCE 11/13 H



DCE 11/13 H

Benefits

- > Exceptionally slimline, compact design
- > Particularly convenient and energy efficient thanks to electronic output control with 3i technology
- > Quick installation with PROFI-RAPID
- Oversink installation
- > Multi stage electronic safety concept
- > With power cable as standard
- > Variable temperature selection via rotary selector

Application • The electronically controlled instantaneous water heater needs very little space due to its compact design. Thanks to its exceptionally flat installation depth, this appliance is ideal for space saving oversink installation, especially for the kitchen sink. • In commercial settings, it is suitable for cleaning rooms, e.g. above sinks. • International: Also suitable for showers with high inlet temperatures.

Convenience features • 3i technology ensures that the preferred temperature is accurately reached up to the output limit. • The water is heated fast by the bare wire heating system. Electronic control keeps the preferred temperature constant. • The preferred temperature is set manually via a rotary selector.

Efficiency • 3i technology ensures energy and water savings of up to 30 % through electronic output control. Three sensors ensure that the set temperature is accurately reached. Energy savings are further assured by the appliance only using the amount of energy it actually requires. There is no need to add cold water at the tap, which additionally enhances the overall efficiency of the appliance. • Suitable for operation with preheated water from solar thermal systems or heat pumps. • The water is heated directly at the draw-off point, thereby avoiding thermal losses in the cylinder and pipework.

Installation • Very quick installation using the improved PROFI-RAPID installation system. • Wall unevenness and drill hole discrepancies are compensated for by the universal mounting rail which is also designed to match commonly used fixing points. • Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation for wall unevenness and drill hole discrepancies. • Quick, universal water connection from below through external G 1/2 A connections. Installation with a non-pressurised or pressure-tested tap. • Easy electrical connection, as the power cable is prepared for permanent connection as standard; the cable is included in the standard delivery. Upward cable routing avoids cabling in visible lower areas. • The installer can individually adjust the output. • Rapid fault analysis with LED diagnostic traffic lights. • For installation, the appliance cover and internal assembly can be completely removed from the back panel without tools.

Safety • The bare wire heating system is suitable for hard and soft water. • The installer can activate anti-scalding protection in order to permanently limit the water outlet temperature. • The multi-stage electronic safety concept comprises a high limit safety cut-out, sensor controlled monitoring of the heating element temperature, and detection of air bubbles in the system.





| | | DCE 11/13 H |
|-------------------|----|-------------|
| Part number | | 232792 |
| | | |
| Specification | | |
| Rated voltage | V | 400 |
| Rated voltage 1 | V | 380 |
| Rated voltage 2 | V | 400 |
| Rated voltage 3 | V | 415 |
| Rated output | kW | 11.2/13.5 |
| Rated output 1 | kW | 10.1/12.2 |
| Rated output 2 | kW | 11.2/13.5 |
| Rated output 3 | kW | 12.1/14.5 |
| Rated current | Α | 18.7/19.5 |
| Rated current 1 | A | 17.8/18.5 |
| Rated current 2 | A | 18.7/19.5 |
| Rated current 3 | Α | 19.4/20.2 |
| Fuse protection | A | 16/20 |
| Fuse protection 1 | A | 16/20 |
| Fuse protection 2 | A | 16/20 |

Compact instantaneous water heaters, 3-phase Electronic closed-loop control

| | | DCE 11/13 H |
|--|-------|-------------|
| Fuse protection 3 | A | 20/20 |
| Frequency | Hz | 50/60 |
| Frequency 1 | Hz | 50/60 |
| Frequency 2 | Hz | 50/60 |
| Frequency 3 | Hz | 50/- |
| Phases | | 3/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C and 380 V) | Ωст | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 400 V) | Ω cm | 900 |
| Resistivity p15 ≥ (at &cold ≤25 °C and 415 V) | Ω cm | 900 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 380 V) | Ωст | 1100 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 400 V) | Ωcm | 1100 |
| Resistivity p15 ≥ (at &cold ≤55 °C and 415 V) | Ωст | 1100 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 380 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 400 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤25 °C and 415 V) | μS/cm | 1111 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 380 V) | μS/cm | 909 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 400 V) | μS/cm | 909 |
| Conductivity σ 15 ≤ (at ϑ cold ≤55 °C and 415 V) | μS/cm | 909 |
| ON | I/min | >2.5 |
| IP rating | | IP 24 |
| Temperature setting | °C | 20-60 |
| Colour | | white |
| Height | mm | 293 |
| Width | mm | 188 |
| Depth | mm | 99 |
| Weight | kg | 2.20 |
| Energy efficiency class | | A |

Hydraulic control

DHF C



DHF 13 C

Benefits

- > Hot water at any time and compact dimensions
- > Long service life thanks to reliable tubular heater system
- > Hydraulically controlled preferred temperature by adding cold water at the tap
- > Straightforward installation thanks to metal water connections
- > Two output stages adjustable using rotary selector depending on application (hand washbasin or shower)
- > Very safe thanks to high limit safety cut-out
- > High quality Made in Germany

Application • The hydraulically controlled instantaneous water heater supplies DHW to multiple draw-off points.
• The appliance can be combined with commercially available taps.

Convenience features • The tubular heater in a pressure-tested copper cylinder is suitable for use with soft water.
• The hydraulic control system regulates the electrical output automatically in 2 output stages subject to the flow rate. • The output level can be manually locked to full heating output using the output selector. • The flow rate control compensates for pressure fluctuations to deliver largely stable temperatures. The flow rate is automatically limited in the winter to ensure an adequate increase in DHW temperature. • The preferred temperature is set at the draw-off valve/tap.

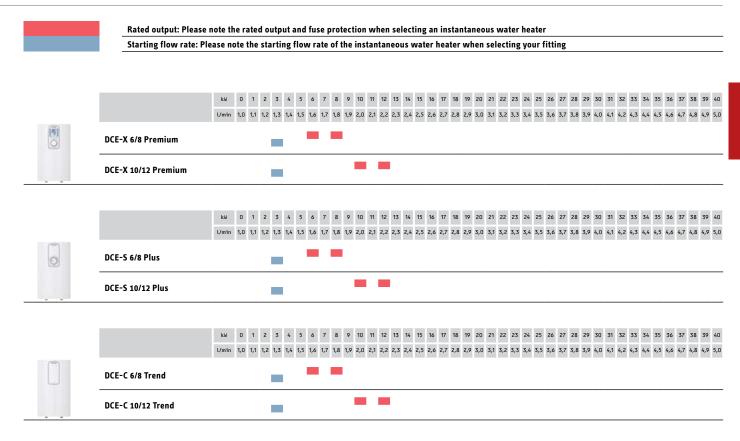
Installation •Electrical connection in the lower area of the appliance. • The threaded water fittings for flush/surface mounting with cold water shut-off are intended for surface mounted taps. • The instantaneous water heater is not suitable for plastic DHW pipework. • When connecting the appliance to the cold water supply, fit approx. 1 m of metal pipe if the cold water pipework is plastic.

Safety • The safety system is equipped with a high limit safety cut-out.

| | | DHF 13 C | DHF 15 C | DHF 18 C | DHF 21 C |
|-------------------------|-------|----------|----------|----------|----------|
| Part number | | 074301 | 074302 | 074303 | 074304 |
| | | | | | |
| Specification | | | | | |
| Rated voltage | V | 400 | 400 | 400 | 400 |
| Rated output | kW | 13.2 | 15 | 18 | 21 |
| Rated current | A | 19.5 | 21.7 | 26 | 30.4 |
| Fuse protection | Α | 20 | 25 | 32 | 32 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Phases | | 3/PE | 3/PE | 3/PE | 3/PE |
| Power supply | | 3/PE | 3/PE | 3/PE | 3/PE |
| Water connection | | G 1/2 A | G 1/2 A | G 1/2 A | G 1/2 A |
| ON | l/min | >3.0 | >3.0 | >3.9 | >4.4 |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 |
| Colour | | white | white | white | white |
| Height | mm | 370 | 370 | 370 | 370 |
| Width | mm | 220 | 220 | 220 | 220 |
| Depth | mm | 130 | 130 | 130 | 130 |
| Weight | kg | 4.10 | 4.10 | 4.10 | 4.10 |
| Energy efficiency class | | В | В | В | В |

D = 141 mm above operating button (Product: 074301, 074302, 074303, 074304)

Application areas



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| lectronic closed-loop control DCE-S Plus | 55 |
| lectronic open-loop control DCE-C Trend | 57 |
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Full electronic control

DCE-X Premium



DCE-X 6/8 Premium

Benefits

- Maximum energy efficiency and accurate temperature delivery at all times thanks to fully electronic output control using 4i technology, in compact design
- > Easy operation via large, backlit multifunction display
- > Energy saving operation with ECO function
- > Fully transparent costs thanks to water and power consumption indicator
- > High quality design | Made in Germany
- › Quick temperature selection with two memory buttons
 - > Safe operation thanks to extensive range of convenience and safety functions
- Quick installation with PROFI-RAPID
- > Selectable output can be adjusted internally
- > Suitable for preheated water from solar thermal systems and heat pumps, up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- > Instant hot water thanks to rapid and maintenance-free bare wire heating system

Application • The space saving compact instantaneous water heater ensures the supply of DHW to multiple draw-off points – for example shower, kitchen sink, washbasin and hand washbasin. In commercial settings, cleaning rooms or multiple hand washbasins in public sanitary facilities can be supplied. The sealed unvented, pressure-tested appliance can be connected to all commercially available taps.

Convenience features • The fully electronically controlled compact instantaneous water heater ensures accurate temperature delivery at all times thanks to the electronic flow rate control. • Variable, digital temperature adjustment in very precise 0.5 °C increments. • The large multifunction display with white backlighting not only shows the set temperature but also provides information on the current power consumption, energy consumption, flow rate and time. Status and service indicators are also displayed. • The instantaneous water heater provides a memory function for 2 programmable preferred temperatures as well as a wide range of comfort functions, including various wellness programs and automated bath filling. • The individually adjustable temperature limiting function can be used for anti-scalding protection and childproofing. • An LED indicator provides information about heating operation. • The key lock protects the appliance against unintentional adjustment.

Efficiency • The appliance ensures energy and water savings of up to 30 % thanks to its fully electronic output control with 4i technology. 3 sensors and an additional motorised valve ensure accurate temperature delivery at all times. Only the amount of energy actually required is expended; there is no need to add cold water at the tap. As there are no thermal losses in the cylinder or pipework either, the instantaneous water heater is impressively efficient. Also contributing to this efficiency is the individually selectable ECO mode. • The current water and power consumption can be displayed. • The appliance is suitable for operation with preheated water from solar thermal or heat pump systems.

Installation • Quick and easy installation with the PROFI-RAPID installation system. • Straightforward, stable wall mounting: Direct fitting through the appliance back panel enables easy compensation for wall unevenness and drill hole discrepancies. • Fast universal water connection using 1/2" connections. The brass water connections at the bottom enable straightforward surface mounting. Optional accessories are available for flush mounting with non-visible water connections. • Fitting to plastic pipe systems is also possible (follow the manufacturer's instructions). • Easy and flexible electrical connection at the top or bottom when flush mounting and at the bottom or sides when surface mounting. • The appliance cover can be easily opened using a central screw. • The entire inner assembly can be detached from the back panel. • Fast fault analysis with LED diagnostic traffic lights.

Safety • The temperature can be individually and permanently limited by the qualified contractor. • The bare wire heating system is suitable for hard and soft water. • Multi stage electronic safety concept with air bubble detection.





| | | DCE-X 6/8 Premium | DCE-X 10/12 Premium |
|-----------------|----|-------------------|---------------------|
| Part number | | 238158 | 238159 |
| | | | |
| Specification | | | |
| Rated voltage | V | 220 | 220 |
| Rated voltage 1 | V | 220 | 220 |
| Rated voltage 2 | V | 230 | 230 |
| Rated voltage 3 | V | 240 | 240 |
| Rated output | kW | 6.0/8.0 | 10.0/12.0 |
| Rated output 1 | kW | 6.0/8.0 | 10.0/12.0 |

Compact instantaneous water heaters, 1-phase Full electronic control

| | | DCE-X 6/8 Premium | DCE-X 10/12 Premium |
|----------------------------|-------|-------------------|---------------------|
| Rated output 2 | kW | 6.6/8.7 | 11.0/13.1 |
| Rated output 3 | kW | 7.2/9.6 | 12.0/14.3 |
| Rated current | Α | 27.3/36.4 | 45.5/54.5 |
| Rated current 1 | Α | 27.3/36.4 | 45.5/54.5 |
| Rated current 2 | Α | 28.5/38.0 | 47.8/57.0 |
| Rated current 3 | Α | 30.0/40.0 | 50.0/59.5 |
| Fuse protection | Α | 30/40 | 50/60 |
| Fuse protection 1 | Α | 30/40 | 50/60 |
| Fuse protection 2 | Α | 30/40 | 50/60 |
| Fuse protection 3 | Α | 30/40 | 50/60 |
| Frequency | Hz | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 |
| Frequency 3 | Hz | 50/60 | 50/60 |
| Phases | | 1/N/PE | 1/N/PE |
| Resistivity p15 ≥ | Ωcm | 1100 | 1100 |
| Conductivity σ 15 ≤ | μS/cm | 910 | 910 |
| ON | I/min | 1.3 | 1.3 |
| IP rating | | IP 25 | IP 25 |
| Temperature setting | °C | Off, 20 - 60 | Off, 20 - 60 |
| Colour | | white | white |
| Height | mm | 372 | 372 |
| Width | mm | 217 | 217 |
| Depth | mm | 109 | 109 |
| Weight | kg | 2.50 | 2.50 |
| Energy efficiency class | | A | Α |

Electronic closed-loop control

DCE-S Plus



DCE-S 6/8 Plus

Benefits

- > Maximum energy efficiency.and accurate temperature delivery with 3i technology and electronic control
- > High quality design | Made in Germany
- > Quick installation with PROFI-RAPID
- > Selectable output can be adjusted internally
- > Suitable for preheated water from solar thermal systems and heat pumps, up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- > Variable temperature selection via rotary selector
- > High safety level as anti-scalding protection can be permanently activated
- Instant hot water thanks to rapid and maintenance-free bare wire heating system

Application • The compact instantaneous water heater ensures the supply of DHW to multiple draw-off points – for example shower and kitchen sink or washbasin and hand washbasin. In commercial settings, cleaning rooms or multiple hand washbasins in public sanitary facilities can be supplied. The sealed unvented, pressure-tested appliance can be connected to all commercially available taps.

Convenience features • The electronically controlled instantaneous water heater ensures accurate delivery of the preferred temperature up to the maximum output. It can be variably adjusted via a manual rotary selector on the appliance.

Efficiency • The 3i technology ensures energy and water savings of up to 30 % through electronic output control. 3 sensors ensure accurate set temperature delivery up to the output limit. • Only the amount of energy actually required is expended, thereby assisting energy efficient operation. • The water is heated in close proximity to the draw-off point, meaning no thermal losses in the cylinder or pipework. • Cold water does not need to be added to achieve the preferred temperature, thereby improving the overall efficiency of the appliance. • The compact instantaneous water heater is suitable for operation with preheated water from solar thermal systems or heat pumps.

Installation • Quick and easy installation using the improved PROFI-RAPID installation system. • Straightforward, stable wall mounting: Direct fitting through the appliance back panel makes it easy to compensate for any unevenness in the wall or for drill hole discrepancies. • Fast universal water connection using 1/2" connections. The brass water connections at the bottom enable straightforward surface mounting. Optional accessories are available for flush mounting with non-visible water connections. • Fitting to plastic pipe systems is also possible; follow the manufacturer's instructions when doing so. • Straightforward and flexible electrical connection at the top or bottom when flush mounting and at the bottom or sides when surface mounting. • The appliance cover can be opened easily using a central screw. • The entire inner assembly can be detached from the back panel. • Fast fault analysis with LED diagnostic traffic lights.

Safety • The temperature can be individually limited by a qualified contractor. • The bare wire heating system is suitable for hard and soft water. • Multi-stage electronic safety concept with high limit safety cut-out and air bubble detection.





| | | DCE-S 6/8 Plus | DCE-S 10/12 Plus |
|-------------------|----|----------------|------------------|
| Part number | | 238153 | 238154 |
| Specification | | | |
| Rated voltage | V | 220 | 220 |
| Rated voltage 1 | V | 220 | 220 |
| Rated voltage 2 | V | 230 | 230 |
| Rated voltage 3 | V | 240 | 240 |
| Rated output | kW | 6.0/8.0 | 10.0/12.0 |
| Rated output 1 | kW | 6.0/8.0 | 10.0/12.0 |
| Rated output 2 | kW | 6.6/8.7 | 11.0/13.1 |
| Rated output 3 | kW | 7.2/9.6 | 12.0/14.3 |
| Rated current | Α | 27.3/36.4 | 45.5/54.5 |
| Rated current 1 | Α | 27.3/36.4 | 45.5/54.5 |
| Rated current 2 | Α | 28.5/38.0 | 47.8/57.0 |
| Rated current 3 | Α | 30.0/40.0 | 50.0/59.5 |
| Fuse protection | Α | 30/40 | 50/60 |
| Fuse protection 1 | Α | 30/40 | 50/60 |
| Fuse protection 2 | Α | 30/40 | 50/60 |

Continue on next page >

Compact instantaneous water heaters, 1-phase Electronic closed-loop control

| | | DCE-S 6/8 Plus | DCE-S 10/12 Plus |
|----------------------------|-------|----------------|------------------|
| Fuse protection 3 | Α | 30/40 | 50/60 |
| Frequency | Hz | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 |
| Frequency 3 | Hz | 50/60 | 50/60 |
| Phases | | 1/N/PE | 1/N/PE |
| Resistivity p15 ≥ | Ωcm | 1100 | 1100 |
| Conductivity σ 15 ≤ | μS/cm | 910 | 910 |
| ON | I/min | 1.3 | 1.3 |
| IP rating | | IP 25 | IP 25 |
| Temperature setting | °C | 20-60 | 20-60 |
| Colour | | white | white |
| Height | mm | 372 | 372 |
| Width | mm | 217 | 217 |
| Depth | mm | 109 | 109 |
| Weight | kg | 2.50 | 2.50 |
| Energy efficiency class | | A | A |

Electronic open-loop control

DCE-C Trend



DCE-C 6/8 Trend

Benefits

- > Good energy efficiency and constant preferred temperature delivery with 2i technology and electronic open-loop control
- > Quick installation with PROFI-RAPID
- > Selectable output can be adjusted internally
- > High quality design | Made in Germany
- > Suitable for preheated water from solar thermal systems and heat pumps, up to 55 °C with reheating and up to a maximum of 70 °C without reheating.
- > Permanently set DHW temperature preferred temperature with cold water added at the tap
- > Instant hot water thanks to rapid and maintenance-free bare wire heating system

Application • The compact instantaneous water heater reliably supplies DHW to individual or multiple draw-off points – e.g. shower, kitchen sink, washbasin, hand washbasin. In commercial settings, cleaning rooms or multiple hand washbasins in public sanitary facilities can be supplied. The sealed unvented, pressure-tested appliance can be connected to all commercially available taps.

Convenience features • The electronically controlled compact instantaneous water heater supplies DHW at a constant, fixed temperature up to the maximum output. • The preferred temperature is achieved by mixing in cold water at the tap.

Efficiency • Electronic output control with 2i technology, including 2 sensors which ensure that the preset temperature level is reached up to the output limit. For this, only the amount of energy actually required is expended. The appliance offers impressive energy efficiency, with no thermal losses in the cylinder or the pipework. • The instantaneous water heater is suitable for preheated water from solar thermal and heat pump systems.

Installation • Fast wall mounting with the improved PROFI-RAPID installation system. Direct fitting through the appliance back panel enables easy compensation of drill hole discrepancies. • The appliance cover is easy to open thanks to a central screw. • For fast, universal water connection, 1/2" brass water connections are integrated, located at the bottom for installation on finished walls. Installation on unfinished walls for non-visible water connections is possible with optional accessories. • Fitting to plastic pipe systems is also possible; follow the manufacturer's instructions when doing so. • Straightforward and flexible electrical connection at the top or bottom when flush mounting and at the bottom or sides when surface mounting. • Selectable output can be adjusted internally. • LED diagnostic traffic lights are integrated for fast fault analysis. • The internal assembly can be completely removed with no back panel.

Safety • The bare wire heating system is suitable for hard and soft water. • Multi stage electronic safety concept with air bubble detection.





| | | DCE-C 6/8 Trend | DCE-C 10/12 Trend |
|-------------------|----|-----------------|-------------------|
| Part number | | 238148 | 238149 |
| Consideration | | | |
| Specification | | | |
| Rated voltage | V | 220 | 220 |
| Rated voltage 1 | V | 220 | 220 |
| Rated voltage 2 | V | 230 | 230 |
| Rated voltage 3 | V | 240 | 240 |
| Rated output | kW | 6.0/8.0 | 10.0/12.0 |
| Rated output 1 | kW | 6.0/8.0 | 10.0/12.0 |
| Rated output 2 | kW | 6.6/8.7 | 11.0/13.1 |
| Rated output 3 | kW | 7.2/9.6 | 12.0/14.3 |
| Rated current | Α | 27.3/36.4 | 45.5/54.5 |
| Rated current 1 | Α | 27.3/36.4 | 45.5/54.5 |
| Rated current 2 | Α | 28.5/38.0 | 47.8/57.0 |
| Rated current 3 | Α | 30.4/40.0 | 50.0/59.5 |
| Fuse protection | Α | 30/40 | 50/60 |
| Fuse protection 1 | Α | 30/40 | 50/60 |
| Fuse protection 2 | A | 30/40 | 50/60 |
| Fuse protection 3 | Α | 30/40 | 50/60 |
| Frequency | Hz | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 |

Compact instantaneous water heaters, 1-phase Electronic open-loop control

| | | DCE-C 6/8 Trend | DCE-C 10/12 Trend |
|----------------------------|-------|-----------------|-------------------|
| Frequency 2 | Hz | 50/60 | 50/60 |
| Frequency 3 | Hz | 50/60 | 50/60 |
| Phases | | 1/N/PE | 1/N/PE |
| Resistivity p15 ≥ | Ωcm | 1100 | 1100 |
| Conductivity σ 15 ≤ | μS/cm | 910 | 910 |
| ON | I/min | 1.3 | 1,3 |
| IP rating | | IP 25 | IP 25 |
| Temperature setting | °C | 55 | 55 |
| Colour | | white | white |
| Height | mm | 372 | 372 |
| Width | mm | 217 | 217 |
| Depth | mm | 97 | 97 |
| Weight | kg | 2.50 | 2.50 |
| Energy efficiency class | | A | A |

Accessories for compact instantaneous water heaters

| Accessories Accessories 61 | | | |
|----------------------------|----------------------------|--|----|
| | Accessories Accessories | | 61 |
| | | | |
| | | | |
| | | | |
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| | | | |
| | | | |

Accessories for compact instantaneous water heaters

Accessories

LR 1-A



Benefits

- > Load shedding relay for priority control
- > Installed dimension = one horizontal pitch as defined by DIN 43880

Automatic load shedding relay for priority control, e.g. in conjunction with electric storage heaters or to interlock two instantaneous water heaters with each other. The installed dimension corresponds to one horizontal pitch as defined by DIN 43880.

LR 1-A

| | | LR 1-A |
|--|---|----------|
| Part number | | 001786 |
| | | |
| Specification | | |
| Installation type | | DIN rail |
| Installation type Breaking capacity | A | 1 |

Accessories for compact instantaneous water heaters Accessories

Application areas



| Electronic closed-loop control | |
|--|----|
| EIL Premium Hydraulic control, pressure-tested | 65 |
| EIL Plus | 67 |
| Hydraulic control, non-pressurised | |
| EIL Trend | 69 |
| EIL Trend + OT | 70 |
| EIL Trend + UT | 71 |

Electronic closed-loop control

EIL Premium



EIL 3 Premium

Benefits

- > Suitable for oversink and undersink installation with a single appliance
- > Can be operated with pressurised and non-pressurised taps
- › Accurate temperature delivery up to the maximum output
- > Internal permanent set temperature for childproofing and anti-scalding protection
- > Special aerator for perfect flow pattern
- At inlet temperatures > 20 °C, also suitable for showers
-) Mini instantaneous water heater with electronic control for a hand washbasin
-) Maintenance-free bare wire heating system
- 3.5 kW version with Schuko plug as standard (Product: 200134)

Application • The electronically controlled mini instantaneous water heater supplies DHW to one hand washbasin reliably and efficiently. • With higher inlet temperatures, the appliance is also suitable for showers. • The appliance can be used with either a pressure-tested or a non-pressurised tap.

Convenience features • The mini instantaneous water heater is equipped with closed-loop control, an outlet temperature sensor and variable flow rate limitation. • Preferred temperatures are accurately delivered up to the maximum output, and the temperature can be internally limited. • The special aerator ensures a perfect water flow pattern and is fitted with an integral flow rate controller. • In the case of high inlet temperatures, anti-scalding protection automatically activates and adjusts the output.

Efficiency • The instantaneous water heater heats the water directly at the draw-off point, saving water and energy by preventing thermal losses in the cylinder or pipework. • Electronic output control for energy and water saving operation additionally improves the efficiency of the whole system. • In conjunction with the outlet temperature sensor, the closed-loop control ensures the set temperature is achieved with maximum accuracy. For this, only the amount of energy actually required is expended; there is no need to add cold water at the tap. • The appliance is suitable for use with preheated water from solar thermal systems or heat pumps.

Installation • The PROFI-RAPID installation system enables very fast installation. The appliance is secured at two points for mounting, and the back panel serves as a drilling template if required. • Fast, universal water connection with external metal water fittings. • Simple electrical connection with power cable prepared for permanent connection as standard. • Fault analysis with LED diagnostic traffic lights.

Safety • The maintenance-free bare wire heating system is suitable for hard and soft water. • The safety system monitors the temperature automatically and switches off the appliance automatically in the event of overpressure.

| | | EIL 3 Premium | EIL 4 Premium | EIL 6 Premium | EIL 7 Premium |
|-------------------|----|---------------|---------------|---------------|---------------|
| Part number | | 200134 | 200135 | 200136 | 200137 |
| | | | | | |
| Specification | | | | | |
| Rated voltage | V | 230 | 230 | 230 | 400 |
| Rated voltage 1 | V | 200 | 200 | 200 | 380 |
| Rated voltage 2 | V | 220 | 220 | 220 | 400 |
| Rated voltage 3 | V | 230 | 230 | 230 | |
| Rated voltage 4 | V | 240 | 240 | 240 | |
| Rated output | kW | 3.53 | 4.4 | 5.7 | 6.5 |
| Rated output 1 | kW | 2.7 | 3.3 | 4.3 | 5.9 |
| Rated output 2 | kW | 3.2 | 4.0 | 5.2 | 6.5 |
| Rated output 3 | kW | 3.53 | 4.4 | 5.7 | |
| Rated output 4 | kW | 3.8 | 4.8 | 6.2 | |
| Rated current | Α | 15.2 | 19.1 | 24.7 | 16.3 |
| Rated current 1 | Α | 13.3 | 16.7 | 21.6 | 15.5 |
| Rated current 2 | Α | 14.5 | 18.2 | 23.6 | 16.3 |
| Rated current 3 | Α | 15.2 | 19.1 | 24.7 | |
| Rated current 4 | Α | 15.8 | 20.0 | 25.8 | |
| Fuse protection | Α | 16 | 20 | 25 | 20 |
| Fuse protection 1 | Α | 16 | 20 | 25 | 16 |
| Fuse protection 2 | Α | 16 | 20 | 25 | 20 |
| Fuse protection 3 | Α | 16 | 20 | 25 | |
| Fuse protection 4 | Α | 16 | 20 | 32 | |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 3 | Hz | 50/60 | 50/60 | 50/60 | |

Continue on next page >

Electronic closed-loop control

| | | EIL 3 Premium | EIL 4 Premium | EIL 6 Premium | EIL 7 Premium |
|---|-------|---------------|---------------|---------------|---------------|
| Frequency 4 | Hz | 50/60 | 50/60 | 50/60 | |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 2/PE |
| Resistivity $\rho 15 \ge (at \vartheta cold \le 25 ^{\circ}C)$ | Ωcm | 1000 | 1000 | 1000 | 1000 |
| Specific conductivity σ 15 \leq (at ϑ cold \leq 25 °C) | μS/cm | 1000 | 1000 | 1000 | 1000 |
| ON | l/min | >1.5 | >1.8 | >2.2 | >2.2 |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Temperature setting | °C | 30 - 50 | 30 - 50 | 30 - 50 | 30 - 50 |
| Colour | | white | white | white | white |
| Height | mm | 143 | 143 | 143 | 143 |
| Width | mm | 190 | 190 | 190 | 190 |
| Depth | mm | 82 | 82 | 82 | 82 |
| Weight | kg | 1.50 | 1.50 | 1.50 | 1.50 |
| Energy efficiency class | | A | A | A | A |

Hydraulic control, pressure-tested

EIL Plus



EIL 3 Plus

Benefits

- > Mini instantaneous water heater with hydraulic control for a hand washbasin
- > Can be operated with pressurised and non-pressurised taps
- > For undersink installation
- > Special aerator for perfect flow pattern
- Maintenance-free bare wire heating system
- 3.5 kW version with Schuko plug as standard (Product: 200138)

Application • The hydraulically controlled mini instantaneous water heater supplies DHW reliably and efficiently to one hand washbasin. • The sealed unvented, pressure-tested appliance is suitable for all commercially available pressure taps.

Convenience features • The appliance has a flow switch and automatically controls the flow rate. • Preferred temperatures are delivered with near constant accuracy up to the maximum output by mixing at the tap. • The system hydraulically controls the heating output in a single stage, subject to the flow rate. • A special aerator ensures a perfect water flow pattern. • The integral flow controller can be easily fitted in existing taps.

Efficiency • The instantaneous water heater heats the water directly at the draw-off point, saving water and energy by preventing thermal losses in the cylinder or pipework.

Installation • The PROFI-RAPID installation system enables very fast installation. The appliance is secured at two points, and the back panel serves as a drilling template, if required. • Fast, universal water connection with external metal water fittings. • Simple electrical connection with power cable prepared for permanent connection as standard.

Safety • The bare wire heating system is suitable for hard and soft water. • The appliance switches off automatically in the event of overpressure.

| | | EIL 3 Plus | EIL 4 Plus | EIL 6 Plus | EIL 7 Plus |
|-------------------------------------|-----|------------|------------|------------|------------|
| Part number | | 200138 | 200139 | 200140 | 200141 |
| Specification | | | | | |
| Rated voltage | ٧ | 230 | 230 | 230 | 400 |
| Rated voltage 1 | V | 200 | 200 | 200 | 380 |
| Rated voltage 2 | V | 220 | 220 | 220 | 400 |
| Rated voltage 3 | V | 230 | 230 | 230 | 415 |
| Rated voltage 4 | V | 240 | 240 | 240 | |
| Rated output | kW | 3.53 | 4.4 | 5.7 | 6,5 |
| Rated output 1 | kW | 2.7 | 3.3 | 4,3 | 5,9 |
| Rated output 2 | kW | 3.2 | 4.0 | 5,2 | 6,5 |
| Rated output 3 | kW | 3.53 | 4.4 | 5,7 | 7,0 |
| Rated output 4 | kW | 3.8 | 4.8 | 6,2 | |
| Rated current | Α | 15.2 | 19.1 | 24.7 | 16,3 |
| Rated current 1 | Α | 13.3 | 16.7 | 21,6 | 15,5 |
| Rated current 2 | Α | 14.5 | 18.2 | 23,6 | 16,3 |
| Rated current 3 | Α | 15.2 | 19.1 | 24,7 | 16,9 |
| Rated current 4 | Α | 15.8 | 20 | 25,8 | |
| Fuse protection | Α | 16 | 20 | 25 | 20 |
| Fuse protection 1 | Α | 16 | 20 | 25 | 16 |
| Fuse protection 2 | Α | 16 | 20 | 25 | 20 |
| Fuse protection 3 | Α | 16 | 20 | 25 | 20 |
| Fuse protection 4 | Α | 16 | 20 | 32 | |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50 |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Frequency 3 | Hz | 50/60 | 50/60 | 50/60 | 50/- |
| Frequency 4 | Hz | 50/60 | 50/60 | 50/60 | |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 2/PE |
| Resistivity p15 ≥ (at &cold ≤25 °C) | Ωcm | 1100 | 1100 | 1100 | 1100 |

Hydraulic control, pressure-tested

| | | EIL 3 Plus | EIL 4 Plus | EIL 6 Plus | EIL 7 Plus |
|---|-------|------------|------------|------------|------------|
| Resistivity p15 ≥ (at &cold >25 °C) | Ωcm | 1100 | 1100 | 1100 | 1100 |
| Specific conductivity σ 15 \leq (at ϑ cold \leq 25 °C) | μS/cm | 909 | 909 | 909 | 909 |
| Conductivity σ 15 \leq (at ϑ cold >25 °C) | μS/cm | 909 | 909 | 909 | 909 |
| Water connection | | G 3/8 A | G 3/8 A | G 3/8 A | G 3/8 A |
| ON | l/min | > 1.6 | > 2.0 | > 2.6 | >2,6 |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Colour | | white | white | white | white |
| Height | mm | 143 | 143 | 143 | 143 |
| Width | mm | 190 | 190 | 190 | 190 |
| Depth | mm | 82 | 82 | 82 | 82 |
| Weight | kg | 1.40 | 1.40 | 1.40 | 1.40 |
| Energy efficiency class | | Α | А | А | A |

Hydraulic control, non-pressurised

EIL Trend



EIL 3 Trend

Benefits

-) Mini instantaneous water heater with hydraulic control for a hand washbasin
- > Operation with non-pressurised tap
- > Suitable for oversink and undersink installation with a single appliance
- > Special aerator for perfect flow pattern
- › Maintenance-free bare wire heating system
- 3.5 kW version with Schuko plug as standard (Product: 200142)

Application • The hydraulically controlled mini instantaneous water heater supplies DHW to one hand washbasin. • The appliance is for oversink or undersink installation and is suitable for all commercially available non-pressurised taps.

Convenience features • The mini instantaneous water heater is equipped with a flow switch and automatic flow rate control. • Preferred temperatures are delivered with near constant accuracy up to the maximum output by mixing in cold water at the tap. • The appliance hydraulically controls the heating output in a single stage, subject to the flow rate. • The standard delivery includes a special aerator for a perfect water flow pattern, with integral flow rate controller.

Efficiency • The mini instantaneous water heater heats the water directly at the draw-off point, which saves water and energy by preventing thermal losses in the cylinder or pipework.

Installation • The PROFI-RAPID installation system enables very fast installation. The appliance is secured at two points, and the back panel serves as a drilling template, if required. Fast, universal water connection with external metal water fittings. • Simple electrical connection with power cable prepared for permanent connection as standard.

Safety • The bare wire heating system is suitable for hard and soft water. • The appliance switches off automatically in the event of overpressure.

| | | EIL 3 Trend | EIL 4 Trend | EIL 6 Trend |
|-------------------------------------|-----|-------------|-------------|-------------|
| Part number | | 200142 | 200143 | 200144 |
| Specification | | | | |
| Rated voltage | ٧ | 230 | 230 | 230 |
| Rated voltage 1 | V | 200 | 200 | 200 |
| Rated voltage 2 | V | 220 | 220 | 220 |
| Rated voltage 3 | V | 230 | 230 | 230 |
| Rated voltage 4 | V | 240 | 240 | 240 |
| Rated output | kW | 3,53 | 4,4 | 5,7 |
| Rated output 1 | kW | 2,7 | 3,3 | 4,3 |
| Rated output 2 | kW | 3,2 | 4,0 | 5,2 |
| Rated output 3 | kW | 3,53 | 4,4 | 5,7 |
| Rated output 4 | kW | 3,8 | 4,8 | 6,2 |
| Rated current | Α | 15,2 | 19,1 | 24,7 |
| Rated current 1 | Α | 13,3 | 16,7 | 21,6 |
| Rated current 2 | Α | 14,5 | 18,2 | 23,6 |
| Rated current 3 | Α | 15,2 | 19,1 | 24,7 |
| Rated current 4 | Α | 15,8 | 20 | 25.8 |
| Fuse protection | Α | 16 | 20 | 25 |
| Fuse protection 1 | Α | 16 | 20 | 25 |
| Fuse protection 2 | Α | 16 | 20 | 25 |
| Fuse protection 3 | Α | 16 | 20 | 25 |
| Fuse protection 4 | Α | 16 | 20 | 32 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Frequency 1 | Hz | 50/60 | 50/60 | 50/60 |
| Frequency 2 | Hz | 50/60 | 50/60 | 50/60 |
| Frequency 3 | Hz | 50/60 | 50/60 | 50/60 |
| Frequency 4 | Hz | 50/60 | 50/60 | 50/60 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE |
| Resistivity ρ15 ≥ (at ϑcold ≤25 °C) | Ωcm | 1100 | 1100 | 1100 |

Hydraulic control, non-pressurised

| | | EIL 3 Trend | EIL 4 Trend | EIL 6 Trend |
|---|-------|-------------|-------------|-------------|
| Resistivity p15 ≥ (at &cold >25 °C) | Ωcm | 1100 | 1100 | 1100 |
| Specific conductivity σ 15 \leq (at ϑ cold \leq 25 °C) | μS/cm | 909 | 909 | 909 |
| Conductivity σ15 ≤ (at ϑcold >25 °C) | μS/cm | 909 | 909 | 909 |
| Water connection | | G 3/8 A | G 3/8 A | G 3/8 A |
| ON | l/min | > 1,0 | > 1.3 | > 2.6 |
| IP rating | | IP 25 | IP 25 | IP 25 |
| Colour | | white | white | white |
| Height | mm | 143 | 143 | 143 |
| Width | mm | 190 | 190 | 190 |
| Depth | mm | 82 | 82 | 82 |
| Weight | kg | 1.40 | 1.40 | 1.40 |
| Energy efficiency class | | | А | A |

EIL Trend + OT



Benefits

-) Mini instantaneous water heater for oversink installation including non-pressurised wall mounted tap in one packing unit
- Mini instantaneous water heater with hydraulic control for a hand washbasin
- > Special aerator for perfect flow pattern
- > Maintenance-free bare wire heating system

DHW set consisting of a hydraulically controlled, non-pressurised mini instantaneous water heater and a twin lever wall mounted tap for energy efficient DHW supply to one hand washbasin.

EIL 3 Trend + OT

| | EIL 3 Trend + OT | EIL 4 Trend + OT |
|-------------|------------------|------------------|
| Part number | 200145 | 201409 |

| Set components | | EIL 3 Trend + OT | EIL 4 Trend + OT |
|----------------|------|------------------|------------------|
| 1 | Туре | EIL 3 Trend | EIL 4 Trend |
| | Pce | 1 | 1 |
| | Page | | |
| 2 | Type | MAW | MAW |
| | Pce | 1 | 1 |
| | Page | | |

Mini instantaneous water heaters

Hydraulic control, non-pressurised

EIL Trend + UT



Benefits

- Mini instantaneous water heater for undersink installation including non-pressurised twin lever washbasin tap in one packing unit
- > Mini instantaneous water heater with hydraulic control for a hand washbasin
- > Special aerator for perfect flow pattern
- > Maintenance-free bare wire heating system

DHW set consisting of a hydraulically controlled, non-pressurised mini instantaneous water heater and a twin lever tap for energy efficient DHW supply to one hand washbasin.

EIL 3 Trend + UT

| | EIL 3 Trend + UT |
|-------------|------------------|
| Part number | 200146 |

| Set components | | EIL 3 Trend + UT |
|----------------|------|------------------|
| 1 | Туре | EIL 3 Trend |
| | Pce | 1 |
| | Page | |
| 2 | Type | MAZ |
| | Pce | 1 |
| | Page | |

Accessories for mini instantaneous water heaters

| Taps, non-pressurised Accessories | | 73 | |
|--------------------------------------|--|----|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Accessories for mini instantaneous water heaters

Taps, non-pressurised

MAW



Renefits

- > Non-pressurised operation with rotary handle, cold left and hot right
- > Oversink installation on a hand washbasin without standby losses
- > Straightforward operation and pivoting spout
- > Special wall mounted tap for direct installation with a mini instantaneous water heater

Wall mounted twin lever tap with special aerator. Suitable for combination with a non-pressurised mini instantaneous water heater for oversink installation.

MAW

| | | MAW |
|-----------------------|-------|------------------------|
| Part number | | 185474 |
| Specification | | |
| Version | | Twin lever tap |
| Application | | Washbasin |
| Connection | | Connection hoses |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 160 |
| Flow rate | l/min | 3.5 |

Taps, non-pressurised

MAZ



Benefits

-) Ideal for mini instantaneous water heaters with twin lever operation for separate adjustment of hot and cold water
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Special aerator for perfect flow pattern

Twin lever tap with special aerator for washbasins. Suitable for combining with a non-pressurised mini instantaneous water heater for undersink installation.

MAZ

| | | MAZ |
|-------------------|-------|--------------------|
| Part number | | 185475 |
| Specification | | |
| Version | | Twin lever tap |
| Application | | Washbasin |
| Connection | | Connection hoses |
| Installation type | | Monobloc mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 150 |
| Spout height | mm | 170 |
| Flow rate | l/min | 3.5 |

MAE



Benefits

- > Mono lever mixer tap for quick adjustment of the preferred temperature
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Special aerator for perfect flow pattern
- > Complete with drain set and pull rod

Mono lever mixer tap with special aerator. Mounted on a washbasin and suitable for combination with a non-pressurised mini instantaneous water heater.

MAE

| | MAE |
|-------------|--------|
| Part number | 185476 |

Accessories for mini instantaneous water heaters

Taps, non-pressurised

| | | MAE |
|-------------------|-------|----------------------|
| Specification | | |
| Version | | Mono lever mixer tap |
| Application | | Washbasin |
| Connection | | Connection hoses |
| Installation type | | Monobloc mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 113 |
| Spout height | mm | 43 |
| Flow rate | l/min | 3.5 |

WST



Benefits

- > Easy operation thanks to temperature default setting on the tap head
- > Easy to clean thanks to high grade chrome surface
- > Straightforward and quick installation thanks to quick-acting fittings

Non-pressurised open mixer tap with two rotary handles for single hole mounting on washbasins. Equipped with pivoting spout, flexible water connection hoses and fitting. Brass casing with chrome plated surface.

WST

| | | WST |
|-------------------|----|--------------------|
| Part number | | 232620 |
| Specification | | |
| Version | | Mixer tap |
| Application | | Washbasin |
| Connection | | Connection hoses |
| Installation type | | Monobloc mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 150 |
| Spout height | mm | 130 |

Water boilers



Water boilers

Water boilers

| Oversink EBK automatic KBA 5 automatic | | 79 80 | |
|--|--|----------|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Oversink

EBK automatic



EBK 5 G automatic

Benefits

- > Automatic shutdown with boiling point detection
- > Stainless steel heating element
- > Exclusive design
-) High grade glass container
- > Large container aperture for easy descaling and cleaning
- > Lever and twin lever fill & drain tap in brass with white casing (Product: 074286)
- > Triple-handle fill & drain tap made from chrome plated brass (Product: 074287)

Application • The water boilers supply hot and boiling water in domestic or similar applications.

Convenience features • With boiling point detection and automatic shutdown, immediate re-boiling is possible.
• Variable temperature selection from 35 °C to boiling point. • A visual display indicates when the appliance is heating up. • The fill & drain tap has an optional throttle adjustment. • The DHW fill level is indicated by the markings on the glass container.

Installation. Can be installed on finished walls or connected via a water connection valve. • Standard delivery includes the fill & drain tap with pivoting overflow pipe and a power cable with Schuko plug or a connection cable for fixed connection. • A sufficiently large service aperture is integrated for cleaning and descaling. • The connected load is 2 kW.

Safety • The immersion heaters are stainless steel. • The high grade glass container ensures a long service life. • The appliance features an integral high limit safety cut-out and is splashproof to protection rating IP 24.

| | | EBK 5 G automatic | EBK 5 GA automatic |
|-----------------------|----------|---------------------------------|--------------------|
| Part number | | 074286 | 074287 |
| Specification | | | |
| Connected load | kW | 2 | 2 |
| Rated output 1 | kW | 2 | 2 |
| Power supply | | 1/N/PE | 1/N/PE |
| Rated voltage 1 | V | 230 | 230 |
| Frequency | Hz | 50 | 50 |
| Nominal capacity | <u> </u> | 5 | 5 |
| Tap | | Twin lever fill and drain valve | Three lever tap |
| Type | | open | open |
| Cylinder material | | Glass | Glass |
| Colour | | white | white |
| Temperature selection | °C | 100 | 100 |
| Width | mm | 245 | 245 |
| Depth | mm | 242 | 242 |
| Capacity up to | <u> </u> | 5.0 | 5.0 |
| Weight | kg | 4.10 | 4.10 |
| Tap surface | | plastic-coated | chrome plated |

Water boilers

Oversink

KBA 5 automatic



EBK 5 K automatic

Benefits

- > Stainless steel heating element
- › Automatic shutdown with boiling point detection
- > Large container aperture with cap for easy descaling and cleaning
- > Plastic container with white casing (Product: 074288)
- > Lever and twin lever fill & drain tap in brass with white casing (Product: 074288)
- > Triple-handle fill & drain tap made from chrome plated brass (Product: 074289)
- > Plastic container with grey casing (Product: 074289)

Application • The water boilers supply boiling water at a draw-off point.

Convenience features • With boiling point detection and automatic shutdown, immediate re-boiling is possible. The temperature can be variably selected from 35 °C to boiling point. Heat-up operation is indicated on the display. • The fill & drain tap has an optional throttle adjustment. • The water fill level is indicated by the markings on the container.

Installation • The connected load is 2 kW. • Can be installed on finished walls or connected via a water connection valve. • Standard delivery includes a fill & drain tap with pivoting overflow pipe and a power cable with Schuko plug or a connection cable for fixed connection. • Protection rating IP 24 (splashproof). A sufficiently large container aperture or service aperture allows direct access for cleaning and descaling.

Safety & quality • The immersion heater is stainless steel, and the appliance has a built-in high limit safety cut-out.

| | | EBK 5 K automatic | KBA 5 KA automatic |
|-----------------------|----------|-------------------|--------------------|
| Part number | | 074288 | 074289 |
| | | | |
| Specification | | | |
| Connected load | kW | 2 | 2 |
| Power supply | | 1/N/PE | 1/N/PE |
| Frequency | Hz | 50 | 50 |
| Nominal capacity | <u> </u> | 5 | 5 |
| Tap | | Twin lever tap | Three lever tap |
| Type | | open | open |
| Cylinder material | | Plastic | Plastic |
| Colour | | white | grey |
| Temperature selection | °C | 100 | 100 |
| Height | mm | 295 | 295 |
| Width | mm | 325 | 325 |
| Depth | mm | 197 | 197 |
| Capacity up to | <u> </u> | 5.0 | 5,0 |
| Weight | kg | 2.90 | 2.90 |
| Tap surface | | plastic-coated | chrome plated |

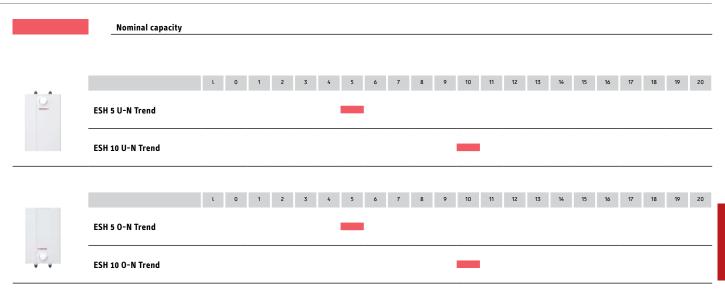
Height to the centre of the water connection (Product: 074288, 074289)

Oversink

DHW cylinders and DHW heat pumps

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|--|-----|
| Accessories for small water heaters, non-pressurised | 90 |
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Application areas



DHW cylinders and DHW heat pumps Small water heaters, non-pressurised

| Undersink | |
|------------------|----|
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| | |

Undersink

ESH U-N Trend



ESH 5 U-N Trend

Benefits

- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Infinitely variable temperature selection
- > High limit safety cut-out resettable by disconnecting the mains plug
- > Connecting cable with Schuko plug
- Operation with non-pressurised tap

Application • The non-pressurised, open vented small water heaters provide an energy saving and efficient supply of warm or hot water to individual draw-off points, for example a washbasin or the kitchen sink. • The appliances are for undersink installation and can be connected to all commercially available non-pressurised taps.

Convenience features • Small water heater with energy saving thermostop function. • The preferred temperature can be variably adjusted. • The heat-up phase is visually indicated. • Large quantities of DHW can be drawn off thanks to the special geometry of the heating element.

Efficiency • The thermostop function prevents the mixer tap becoming hot, which saves operating energy and increases the efficiency of the appliance.

Installation • The PROFI-RAPID installation system enables very fast installation. The universal mounting rail compensates for unevenness in the wall and drill hole discrepancies, and is designed to match commonly used fixing points. • The connection cable is fitted with a Schuko plug as standard. Practical cable storage is provided in the back panel of the appliance to house any excess cable.

Safety • Robust copper tubular heater ensures a long service life. • Safe commissioning thanks to resettable high limit safety cut-out.



201391

| | | ESH 5 U-N Trend | ESH 10 U-N Trend |
|--|-----|--------------------|--------------------|
| Part number | | 201386 | 201391 |
| | | | |
| Specification | | | |
| Rated output 1 | kW | 2 | |
| Power supply | | 1/N/PE | 1/N/PE |
| Rated voltage 1 | V | 230 | 230 |
| Rated current 1 | Α | 8.7 | 8.7 |
| Frequency | Hz | 50/60 | 50/60 |
| Energy efficiency class | | A | A |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.27 | 0.32 |
| Nominal capacity | 1 | 5 | 10 |
| Mixed water volume 40 °C | 1 | 10 | 19 |
| Temperature setting range | °C | 35 - 85 | 35 - 85 |
| Version | | Small water heater | Small water heater |
| Туре | | open | open |
| Installation type | | Undersink | Undersink |
| With tap | | - | <u>-</u> |
| Colour | | white | white |
| Operation | | manual | manual |
| Temperature limit | | • | • |
| IP rating | | IP 24 D | IP 24 D |
| Height | mm | 415 | 506 |
| Width | mm | 252 | 296 |
| Depth | mm | 233 | 276 |
| Weight | kg | 3.10 | 5.00 |

Undersink

| | ESH 5 U-N Trend | ESH 10 U-N Trend |
|-------------------------|---|---|
| Recommended accessories | | |
| Part number | 232604 | 232604 |
| Туре | WUT | WUT |
| Description | Twin lever mixer tap, non-pressurised, for the kitchen sink | Twin lever mixer tap, non-pressurised, for the kitchen sink |
| Part number | 232611 | 232611 |
| Туре | MES | MES |
| Description | Mono lever mixer tap, non-pressurised, for kitchen sink | Mono lever mixer tap, non-pressurised, for kitchen sink |
| Part number | 232620 | 232620 |
| Туре | WST | WST |
| Description | Twin lever mixer tap, non-pressurised, for washbasins | Twin lever mixer tap, non-pressurised, for washbasins |

ESH U-N Trend +A



DHW sets consisting of ESH 5 U-N Trend or ESH 10 U-N Trend and a non-pressurised, open vented mono lever mixer tap.

ESH 5 U-N Trend +A

| | ESH 5 U-N Trend +A | ESH 10 U-N Trend +A |
|-------------|--------------------|---------------------|
| Part number | 201387 | 201392 |

| Set components | | ESH 5 U-N Trend +A | ESH 10 U-N Trend +A |
|----------------|------|--------------------|---------------------|
| 1 | Type | ESH 5 U-N Trend | ESH 10 U-N Trend |
| | Pce | 1 | 1 |
| | Page | | |

Oversink

ESH O-N Trend



ESH 5 O-N Trend

Benefits

- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Infinitely variable temperature selection
- > High limit safety cut-out resettable by disconnecting the mains plug
- > Connecting cable with Schuko plug
-) Operation with non-pressurised tap

Application • The non-pressurised, open vented small water heaters are suitable for DHW supply to individual draw-off points, e.g. to a sink in the utility room or kitchen. • The non-pressurised appliance for oversink installation can be combined with a non-pressurised tap.

Convenience features • The temperature is variably adjusted via a rotary selector. • The special geometry of the heating element means that large amounts of DHW can be drawn off. • The heat-up phase is visually indicated.

Installation • The PROFI-RAPID installation system ensures quick and easy installation. Replacement is straightforward with standard fixing points. Simple wall mounting with the universal mounting rail; an installation template is included in the standard delivery. • Power cable with Schuko plug.

Safety & quality • The robust copper tubular heater ensures a long service life. • The resettable high limit safety cut-out ensures safe commissioning.

| | | ESH 5 O-N Trend | ESH 10 O-N Trend |
|--|-----|---|---|
| Part number | | 201388 | 201393 |
| Specification | | | |
| Rated output 1 | kW | 2 | |
| Power supply | | 1/N/PE | 1/N/PE |
| Rated voltage 1 | V | 230 | 230 |
| Rated current 1 | Α | 8,7 | |
| Frequency | Hz | 50/60 | 50/60 |
| Energy efficiency class | | А | А |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.27 | 0.31 |
| Nominal capacity | I | 5 | 10 |
| Mixed water volume 40 °C | I | 10 | 19 |
| Temperature setting range | °C | 35 - 85 | 35 - 85 |
| Version | | Small water heater | Small water heater |
| Type | | open | oper |
| Installation type | | Oversink | Oversink |
| With tap | | - | |
| Colour | | white | white |
| Operation | | manual | manua |
| Temperature limit | | • | |
| IP rating | | IP 24 D | IP 24 D |
| Height | mm | 415 | 506 |
| Width | mm | 252 | 296 |
| Depth | mm | 233 | 276 |
| Weight | kg | 3.10 | 5.00 |
| Recommended accessories | | | |
| Part number | | 232605 | 232605 |
| Type | | WKM | WKM |
| Description | | Twin lever wall mounted tap, non-pressurised, for over- sink installation | Twin lever wall mounted tap, non-pressurised, for over- sink installation |
| Part number | | 232606 | 232606 |
| Туре | | WDM | WDM |
| Description | | Twin lever wall mounted tap, non-pressurised, for instal- lation in shower | Twin lever wall mounted tap, non-pressurised, for instal- lation in shower |

Oversink

| | ESH 5 O-N Trend | ESH 10 O-N Trend |
|-------------|--|--|
| Part number | 232608 | 232608 |
| Туре | MEK | MEK |
| Description | Mono lever wall mounted tap, non-pressurised, for over- sink installation | Mono lever wall mounted tap, non-pressurised, for over- sink installation |

ESH O-N Trend +A



DHW sets consisting of ESH 5 O-N Trend or ESH 10 O-N Trend with non-pressurised, open vented mono lever mixer tap.

ESH 5 O-N Trend+A

| | ESH 5 O-N Trend+A | ESH 10 O-N Trend +A |
|-------------|-------------------|---------------------|
| Part number | 201389 | 201395 |

| Set components | | ESH 5 O-N Trend+A | ESH 10 O-N Trend +A |
|----------------|------|-------------------|---------------------|
| 1 | Type | ESH 5 O-N Trend | ESH 10 O-N Trend |
| | Pce | 1 | 1 |
| | Page | | |

Design and technical features as ESH 5 O-N Trend or ESH 10 O-N Trend with non-pressurised mono lever mixer tap in one complete package.

DHW cylinders and DHW heat pumps Accessories for small water heaters, non-pressurised

| Taps, undersink Accessories Taps, oversink Accessories | | 91 | |
|---|--|----|--|
| | | | |
| | | | |
| | | | |
| | | | |

Taps, undersink

MES



Benefits

- > Mono lever mixer tap for the kitchen sink
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Pivoting spout

Mono lever mixer tap for open vented small water heaters, for installation on a kitchen sink. Robust brass construction with a ceramic control cartridge, pivoting spout and aerator.

MES

| | | MES |
|-------------------|----|----------------------|
| Part number | | 232611 |
| | | |
| Specification | | |
| Version | | Mono lever mixer tap |
| Application | | Sink |
| Connection | | Connection hoses |
| Installation type | | Monobloc mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 190 |
| Spout height | mm | 190 |

WST



Benefits

- > Easy operation thanks to temperature default setting on the tap head
- > Easy to clean thanks to high grade chrome surface
- > Straightforward and quick installation thanks to quick-acting fittings

Non-pressurised open mixer tap with two rotary handles for single hole mounting on washbasins. Equipped with pivoting spout, flexible water connection hoses and fitting. Brass casing with chrome plated surface.

WST

| | | WST |
|-------------------|----|--------------------|
| Part number | | 232620 |
| | | |
| Specification | | |
| Version | | Mixer tap |
| Application | | Washbasin |
| Connection | | Connection hoses |
| Installation type | | Monobloc mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 150 |
| Spout height | mm | 130 |

Taps, undersink

WUT



Benefits

- > Easy operation thanks to temperature default setting on the tap head
- > Version for the kitchen sink
-) Pivoting spout
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

Non-pressurised, open mixer tap with two rotary handles for combining with a low pressure small water heater for the kitchen sink.

WUT

| | | WUT |
|-------------------|----|--------------------|
| Part number | | 232604 |
| | | |
| Specification | | |
| Version | | Mixer tap |
| Application | | Sink |
| Connection | | Connection hoses |
| Installation type | | Monobloc mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 200 |
| Spout height | mm | 200 |

Taps, oversink

MEK



Benefits

- > Mono lever wall mounted tap for direct draw-off
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Oversink version with pivoting spout

Non-pressurised, chrome plated mono lever wall mounted tap for use above the kitchen sink. Ceramic control cartridge.

MEK

| | | MEK |
|-----------------------|----|------------------------|
| Part number | | 232608 |
| | | |
| Specification | | |
| Version | | Mono lever mixer tap |
| Application | | Kitchen |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 185 |

WKM



Benefits

- > Twin lever wall mounted tap for direct draw-off
- > Oversink version with pivoting spout
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

The non-pressurised, open vented, wall mounted tap with two rotary handles is suitable for installation on the wall above the kitchen sink or a utility sink. • The cold water connection is equipped with a non-return valve and butterfly valve. • The tap is part of a complete range in a uniform design

WKM

| | | WKM |
|-----------------------|----|------------------------|
| Part number | | 232605 |
| | | |
| Specification | | |
| Version | | Twin lever tap |
| Application | | Kitchen |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 150 |

Taps, oversink

WDM



Benefits

- > Twin lever wall mounted tap for direct draw-off
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

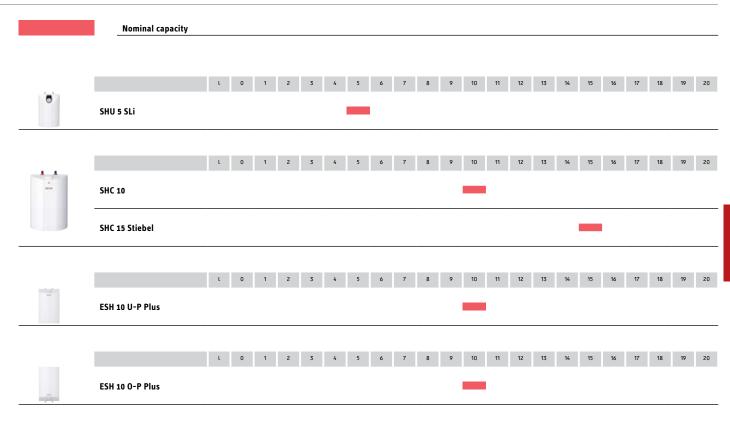
Non-pressurised, open vented wall mounted tap with two rotary handles for installation in a shower. Non-return valve and butterfly valve in the cold water connection. The tap is part of a complete range in a uniform design.

WDM

| | WDM |
|-----------------------|------------------------|
| Part number | 232606 |
| | |
| Specification | |
| Version | Twin lever tap |
| Application | Shower |
| Connection | Brass tubes |
| Installation type | Wall mounted mixer tap |
| Surface | chrome plated |
| Cold water connection | 1/2 inch |

Small water heaters, pressure-tested

Application areas



| Undersink SHU Sli SHC Stiebel ESH U-P Plus | 97 99 101 |
|--|-----------------|
| Oversink ESH O-P Plus | 103 |

SHU Sli



SHU 5 SLi

- > Plug-in unit for electrical connection to any standard socket
- > Quick DHW heating without delay
- Matching safety assemblies as accessories
-) Low energy losses thanks to high grade thermal insulation

Application • The small water heaters supply DHW to multiple draw-off points, e.g. a washbasin in the bathroom or a sink in the kitchen. • The non-pressurised, sealed unvented appliances can be connected to all commercially available non-pressurised taps.

Convenience features • The energy saving thermostop function prevents unwanted heating of the mixer tap. • The temperature can be variably adjusted between 35 °C and 85 °C via a rotary selector on the appliance. It can also be limited mechanically in four stages. • The heat-up phase is signalled by an indicator lamp.

Efficiency • The water is heated directly at the draw-off point, which prevents thermal losses in the cylinder or pipework. • The inner cylinder made from polypropylene, with high grade EPS thermal insulation, ensures low energy losses. • The sensor immersed in the water captures the temperature quickly and precisely.

Installation • Quick installation with the improved PROFI-RAPID installation system. • Straightforward replacement for all standard small water heaters. • The universal mounting rail compensates for unevenness in the wall and drill hole discrepancies and is designed to match commonly used fixing points. • Threaded metal water fittings for secure replacement. • Connection cable wired up for Schuko plug or fixed connection. Cable storage is provided in the back panel of the appliance to house any excess power cable.

Safety • The appliance is splashproof. • Robust copper tubular heater with low surface load for a long service life. • The resettable high limit safety cut-out ensures safe commissioning of 1 kW and 2 kW appliances. • A mechanical temperature limit can be set in two stages for anti-scalding protection.

| | | SHU 5 SLi |
|--|-----|--------------------|
| Part number | | 222151 |
| Specification | | |
| Rated output 1 | kW | 1.8 |
| Rated output 2 | kW | 2.0 |
| Rated output 3 | kW | 2.2 |
| Power supply | | 1/N/PE |
| Rated voltage 1 | | 220 |
| Rated voltage 2 | v | 230 |
| Rated voltage 3 | ν | 240 |
| Rated current 1 | Α | 8.3 |
| Rated current 2 | Α | 8.7 |
| Rated current 3 | Α | 9.1 |
| Fuse protection 2 | Α | 10 |
| Frequency | Hz | 50/60 |
| Energy efficiency class | | A |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.29 |
| Nominal capacity | | 5 |
| Mixed water volume 40 °C | | 10 |
| Temperature setting range | °C | 35 - 82 |
| Version | | Small water heater |
| Туре | | closed |
| Installation type | | Undersink |
| With tap | | - |
| Colour | | white |
| Cable length | m | 0.6 |
| Operation | | manual |
| Temperature limit | | • |
| IP rating | | IP 24 D |
| Height | mm | 421 |
| Width | mm | 263 |
| Depth | mm | 230 |
| Weight | kg | 5.20 |

Small water heaters, pressure-tested Undersink

| | SHU 5 SLi |
|----------------------|--|
| | |
| Required accessories | |
| Part number | 070558 |
| Туре | WVT-G3/8 |
| Description | Tee |
| Part number | 073499 |
| Туре | SVMT |
| Description | Safety assembly for small water heater, pressure-tested, undersink |

Small water heaters, pressure-tested

Undersink

SHC Stiebel



SHC 10

Renefits

- > Supplies multiple draw-off points via a pressurised connection
- > Enamelled pressure-tested steel inner cylinder
- > High energy efficiency thanks to very low standby energy losses
- > Frost protection setting
- > Quick and easy installation

Application • The small water heaters supply multiple low DHW-demand draw-off points. • The pressure-tested, sealed unvented appliances can be combined with commercially available pressure taps • They are suitable for undersink installation; they can only be installed with the appropriate safety valve.

Convenience features • The small water heaters offer tailored solutions for decentralised group supply. They heat the water directly at the draw-off point, thereby avoiding energy, water and circulation losses caused by long pipe runs. • The temperature is variably adjusted by means of a rotary selector. • The temperature controller uses a sensor installed directly in the water. • Low energy losses thanks to the high grade EPS thermal insulation. • The appliance has two-stage temperature limiting and an automatic frost protection setting. • A visual display indicates when the appliance is heating up.

Installation • Quick and easy wall mounting using the PROFI-RAPID installation system. A universal mounting rail is included in the standard delivery as is the installation template. • Secure water connection thanks to metal threaded water fittings. Suitable safety valves available as accessories.

Safety • Robust copper tubular heater with low surface load. • The pressure-tested steel inner cylinder is equipped with a protective magnesium anode. • Resettable high limit safety cut-out. • The temperature can be limited mechanically in two stages to provide anti-scalding protection and childproofing. • The appliance is splashproof to protection rating IP 24.

| | | SHC 10 | SHC 15 Stiebel |
|--|-----|--------------------|--------------------|
| Part number | | 233747 | 234337 |
| Specification | | | |
| Rated output 1 | kW | 1.4 | 1.4 |
| Rated output 2 | kW | 1,5 | 1.5 |
| Rated output 3 | kW | 1.6 | 1.6 |
| Power supply | | 1/N/PE | 1/N/PE |
| Rated voltage 1 | V | 220 | 220 |
| Rated voltage 2 | V | 230 | 230 |
| Rated voltage 3 | V | 240 | 240 |
| Rated current 1 | A | 6,2 | 6.2 |
| Rated current 2 | A | 6.5 | 6.5 |
| Rated current 3 | Α | 6.8 | 6.8 |
| Fuse protection 2 | A | 10 | 10 |
| Frequency | Hz | 50/60 | 50/60 |
| Energy efficiency class | | A | A |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.48 | 0.49 |
| Nominal capacity | I | 10 | 15 |
| Mixed water volume 40 °C | I | 15,3 | 23 |
| Mixed water volume 40 °C (15 °C/60 °C) | | 15,3 | 23 |
| Temperature setting range | °C | 30 - 65 | 30 - 65 |
| Version | | Small water heater | Small water heater |
| Type | | closed | closed |
| Installation type | | Undersink | Undersink |
| With tap | | - | - |
| Inner cylinder material | | Steel, enamelled | Steel, enamelled |
| Colour | | white | white |
| Cable length | m | 1 | 1 |
| Operation | | manual | manual |
| Temperature limit | | • | • |

Small water heaters, pressure-tested Undersink

| | | SHC 10 | SHC 15 Stiebel |
|----------------------|----|---|---|
| IP rating | | IP 24 D | IP 24 D |
| Height | mm | 430 | 452 |
| Width | mm | 280 | 320 |
| Depth | mm | 270 | 318 |
| Weight | kg | 7.20 | 9.00 |
| Required accessories | | | |
| Part number | | 073499 | 073499 |
| Туре | | SVMT | SVMT |
| Description | | Safety assembly for small water heater, pressure-tested, undersink | Safety assembly for small water heater, pressure-tested, undersink |

Small water heaters, pressure-tested

Undersink

ESH U-P Plus



ESH 10 U-P Plus

Benefits

- > Supplies multiple draw-off points via a pressurised connection
- > Infinitely variable temperature selection
- > Press the reset button to reset the high limit safety cut-out
- > Connecting cable with Schuko plug
- > Suitable for all standard pressure fittings

Application • The pressure-tested, sealed unvented small water heaters are suitable for DHW supply to one or more draw-off points with low DHW demand. The appliances for undersink installation can be combined with all commercially available pressure taps; the appropriate safety assembly is needed for installation.

Convenience features • The small water heaters offer a demand-dependent solution for decentralised group supply of warm or hot water at all times. They heat the water directly at the draw-off point; energy, water and DHW circulation losses due to long pipe runs are avoided. High grade thermal insulation additionally reduces energy consumption.

• The temperature controller works by means of a temperature sensor immersed directly in the water.

• The user can variably adjust the temperature with a rotary selector.

• Heat-up signalled by indicator lamp.

• The pressure-tested inner cylinder is made from enamelled steel.

Installation & Service The PROFI-RAPID installation system makes installation very quick. Easy replacement, as standard fixing points can be used; the universal mounting rail allows quick installation on the wall. • Matching safety valve as an accessory. Power cable with Schuko plug.

Safety & quality • The robust copper tubular heater ensures a long service life. • The high limit safety cut-out can be reset after triggering.

| | | ESH 10 U-P Plus |
|--|-----|--------------------|
| Part number | | 20139 |
| Specification | | |
| Rated output 1 | kW | 1. |
| Rated output 2 | kW | 2.0 |
| Rated output 3 | kW | 2.: |
| Power supply | | 1/N/PE ~ 230 V 50H |
| Rated voltage 1 | V | 220 |
| Rated voltage 2 | V | 230 |
| Rated voltage 3 | | 24(|
| Rated current 1 | Α | 8.3 |
| Rated current 2 | Α | 8.7 |
| Rated current 3 | Α | 9.: |
| Fuse protection 2 | A | 10 |
| Frequency | Hz | 50/60 |
| Energy efficiency class | | Į. |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.36 |
| Nominal capacity | | 10 |
| Mixed water volume 40 °C | I | 18 |
| Temperature setting range | °C | 35 - 82 |
| Version | | Small water heate |
| Туре | | closed |
| Installation type | | Undersinl |
| With tap | | |
| Inner cylinder material | | Steel, enamelled |
| Colour | | white |
| Cable length | m | 0.99 |
| Operation | | manua |
| Temperature limit | | |
| IP rating | | IP 24 [|
| Height | mm | 500 |
| Width | mm | 290 |
| Depth | mm | 276 |
| Weight | kg | 8.00 |

Small water heaters, pressure-tested Undersink

| | ESH 10 U-P Plus |
|----------------------|--|
| Required accessories | |
| Part number | 070558 |
| Туре | WVT-G3/8 |
| Description | Tee |
| Part number | 073499 |
| Туре | SVMT |
| Description | Safety assembly for small water heater, pressure-tested, undersink |

Small water heaters, pressure-tested

Oversink

ESH O-P Plus



ESH 10 O-P Plus

Benefits

- > Supplies multiple draw-off points via a pressurised connection
- > Infinitely variable temperature selection
- > Connecting cable with Schuko plug
- > Press the reset button to reset the high limit safety cut-out

Application • The small water heaters provide an energy saving and efficient supply of warm or hot water to one or more draw-off points with low DHW demand. • The pressure-tested, sealed unvented appliances can be connected to all commercially available pressure taps.

Convenience features • Small water heaters for oversink installation, for demand-dependent decentralised group supply of multiple draw-off points. • Fast and accurate temperature capture by the sensor immersed in the water. • The temperature can be variably adjusted using the rotary selector. • The heat-up phase is signalled by an indicator lamp.

Efficiency • The appliance heats the water directly at the draw-off point, which saves water and energy by preventing pressure drops. • Low energy losses thanks to the high grade thermal insulation of the pressure-tested enamelled steel inner cylinder.

Installation • The PROFI-RAPID installation system enables very fast installation. The universal mounting rail compensates for unevenness in the wall and drill hole discrepancies, and is designed to match commonly used fixing points. • The connecting cable is fitted with a Schuko plug as standard. • Installation only with the appropriate safety assembly. The matching safety valve is available as an accessory.

Safety • Robust copper tubular heater ensures a long service life. • Safe commissioning thanks to resettable high limit safety cut-out.

| | | ESH 10 O-P Plus |
|--|-----|---------------------|
| Part number | | 201398 |
| | | |
| Specification | | |
| Rated output 1 | kW | 1.8 |
| Rated output 2 | kW | 2.0 |
| Rated output 3 | kW | 2.2 |
| Power supply | | 1/N/PE ~ 230 V 50Hz |
| Rated voltage 1 | V | 220 |
| Rated voltage 2 | V | 230 |
| Rated voltage 3 | V | 240 |
| Rated current 1 | Α | 8.3 |
| Rated current 2 | Α | 8.7 |
| Rated current 3 | Α | 9.1 |
| Fuse protection 2 | Α | 10 |
| Frequency | Hz | 50/60 |
| Energy efficiency class | | A |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.34 |
| Nominal capacity | I | 10 |
| Mixed water volume 40 °C | I | 18 |
| Temperature setting range | °C | 35 - 82 |
| Version | | Small water heater |
| Type | | closed |
| Installation type | | Oversink |
| With tap | | |
| Inner cylinder material | | Steel, enamelled |
| Colour | | white |
| Cable length | m | 0.95 |
| Operation | | manual |
| Temperature limit | | • |
| Temperature selection | °C | 35 |

Small water heaters, pressure-tested Oversink

| | | ESH 10 O-P Plus |
|---------------------|----|-----------------|
| IP rating | | IP 24 D |
| IP rating Height | mm | 506 |
| Width | mm | 296 |
| Depth Weight | mm | 276 |
| Weight | kg | 8.00 |

Oversink

DHW cylinders and DHW heat pumps Accessories for small water heaters, pressure-tested

Accessories Accessories 107

Accessories for small water heaters, pressure-tested

Accessories

SVMT



Benefits

- > For the connection of pressure taps
- Safety assembly in brass casing with chrome finish for pressure-tested, sealed unvented undersink small water heaters. Standard delivery includes the pressure limiter, a water control valve, and the drain outlet with non-return valve.

SVMT

| | | SVMT |
|--------------------------------|-----|-----------------|
| Part number | | 073499 |
| | | |
| Specification | | |
| Max. permissible pressure | MPa | 1.00 |
| Safety valve response pressure | MPa | 0.70 |
| Pressure reducing valve | | • |
| Drip water connection | | • |
| Installation type | | Surface mounted |

wv



The water distributor in conjunction with the SVMT safety assembly allows connection of a second commercially available pressure tap.

WVT-G3/8

| | WVT-G3/8 |
|------------------|----------|
| Part number | 070558 |
| Specification | |
| Water connection | G 3/8 A |

Accessories for small water heaters, pressure-tested

Accessories

SRT



Benefits

> The safety assembly is used as fuse protection for sealed unvented DHW cylinders

Safety assembly for installation of sealed unvented wall mounted cylinders and pressurised small water heaters on finished walls. Suitable for horizontal or vertical installation.

SRT 2

| | | SRT 2 |
|---------------------------|-----|-----------------|
| Part number | | 230764 |
| | | |
| Specification | | |
| Max. permissible pressure | MPa | 0.60 |
| Pressure reducing valve | | - |
| Drip water connection | | • |
| Installation type | | Surface mounted |
| Safety valve | bar | 6 |

ST GP

Benefits

> The safety valve is used as fuse protection for sealed unvented DHW cylinders

Application • Safety valve for wall and floor mounted cylinders.

| | | Sicherh.Gruppe 1/2" | Sicherh.Gruppe 3/4" |
|---------------------------|-----|---------------------|---------------------|
| Part number | | 073945 | 073946 |
| Specification | | | |
| Max. permissible pressure | MPa | 0.60 | 0.60 |
| Water connection | | G 1/2 | G 3/4 |

Accessories



Accessories for DHW cylinders, non-pressurised

Taps, oversink

MEK



Benefits

- > Mono lever wall mounted tap for direct draw-off
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- > Oversink version with pivoting spout

Non-pressurised, chrome plated mono lever wall mounted tap for use above the kitchen sink. Ceramic control cartridge.

MEK

| | | MEK |
|-----------------------|----|------------------------|
| Part number | | 232608 |
| Constituents of | | |
| Specification | | |
| Version | | Mono lever mixer tap |
| Application | | Kitchen |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 185 |

WKM



Benefits

- > Twin lever wall mounted tap for direct draw-off
- > Oversink version with pivoting spout
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

The non-pressurised, open vented, wall mounted tap with two rotary handles is suitable for installation on the wall above the kitchen sink or a utility sink. • The cold water connection is equipped with a non-return valve and butterfly valve. • The tap is part of a complete range in a uniform design

WKM

| | | WKM |
|-----------------------|----|------------------------|
| Part number | | 232605 |
| | | |
| Specification | | |
| Version | | Twin lever tap |
| Application | | Kitchen |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 150 |

Accessories for DHW cylinders, non-pressurised

WDM



Benefits

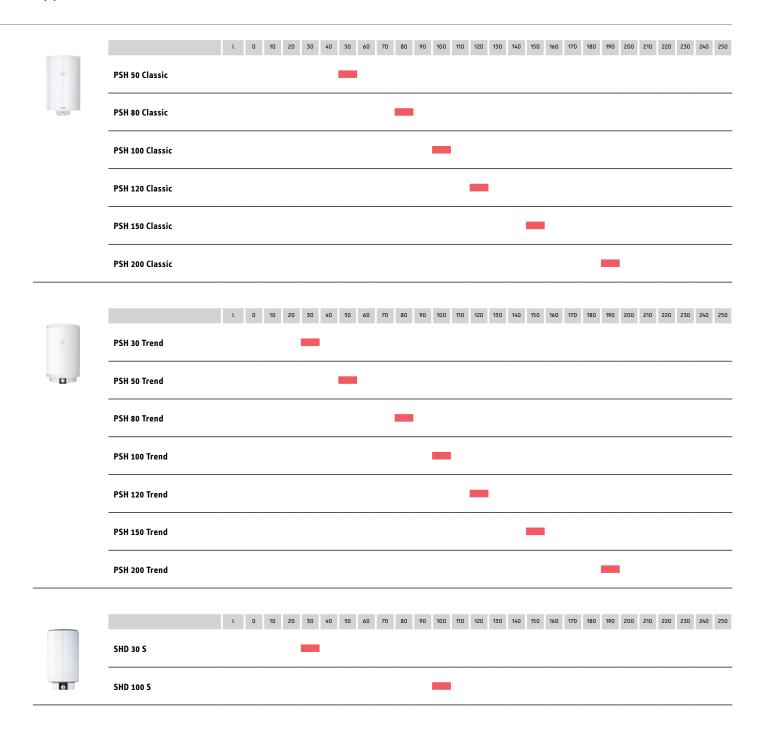
- > Twin lever wall mounted tap for direct draw-off
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

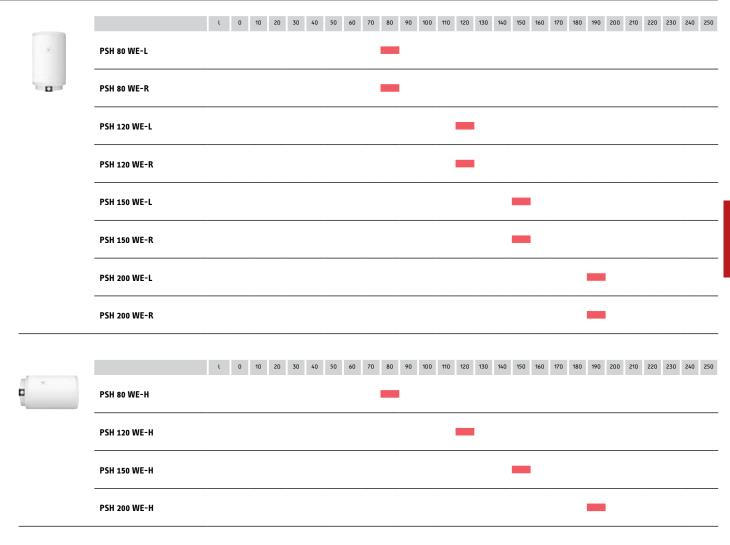
Non-pressurised, open vented wall mounted tap with two rotary handles for installation in a shower. Non-return valve and butterfly valve in the cold water connection. The tap is part of a complete range in a uniform design.

WDM

| | WDM |
|-----------------------|------------------------|
| Part number | 232606 |
| | |
| Specification | |
| Version | Twin lever tap |
| Application | Shower |
| Connection | Brass tubes |
| Installation type | Wall mounted mixer tap |
| Surface | chrome plated |
| Cold water connection | 1/2 inch |







| Pressure-tested | |
|----------------------------|-----|
| SH S electronic | 117 |
| PSH Universal EL | 119 |
| PSH Classic | 120 |
| PSH Trend | 121 |
| With tubular indirect coil | |
| PSH WE | 123 |
| PSH WE-H | 124 |
| | |
| | |
| | |

Wall mounted cylinder

SH S electronic



SH 30 S electronic

Benefits

- > Variable temperature setting via rotary selector
- > High quality magnesium anode for optimised cylinder protection
- > Electronic heat content indicator via LED in the user interface
- > Hot water round the clock in efficient single circuit operation
- > Very low energy losses thanks to high grade thermal insulation
- > The steel inner cylinder features a special directly applied enamel coating for a long service life
- > Quick and easy installation using mounting bracket and drilling template

Application • The wall mounted cylinders supply DHW conveniently and energy efficiently to multiple draw-off points, e.g. individual or group supply to the bathroom and kitchen. • The pressure-tested, sealed unvented appliances can be combined with all commercially available pressure taps. • If only one draw-off point is used, the appliance can also be used with a non-pressurised, open vented connection.

Convenience features • The temperature can be variably adjusted and limited in three stages. • The heat-up phase is visually indicated. • Seven LED fields on the user interface indicate the usable heat content.

Efficiency • Low energy losses thanks to high grade thermal insulation.

Installation • The integral recessed grips facilitate handling of the wall mounted cylinder. • Quick and straightforward replacement of all standard wall mounted cylinders thanks to the well planned design. • The supplied installation template enables easy marking of holes to be drilled and pre-installation of water connections. • The universal wall mounting bracket allows both corner and wall installation. Standard delivery includes mounting bracket caps and spacers for protruding walls. • Selectable connected load with removable strain relief for simplified installation. • The appliance is suitable for installation in systems with plastic, copper or stainless steel pipework. • Large flanged aperture allows effective and convenient descaling. The flanged immersion heater is easy to remove and is fitted with a polarised immersion heater plug. • Corrosion protection is ensured by a signal anode with visible display indicating the consumption level. The anode can be replaced without removing the flange. • The appliance is drained via a drain valve with hose connection. The large flanged aperture enables effective and convenient descaling. • The design allows environmentally responsible sorting and recycling of the individual components.

Safety • The universal flanged immersion heater is suitable for single circuit operation. • The steel inner cylinder with special "anticor" directly applied enamel coating on the inside helps to ensure a long service life. • The high grade magnesium anode offers additional corrosion protection. Its consumption is indicated via the user interface. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing. The appliance is hoseproof to protection rating IP 25.

| | | SH 30 S elec- tronic | SH 50 S elec- tronic | SH 80 S elec- tronic | SH 100 S elec- tronic | SH 120 S elec- tronic | SH 150 S elec- tronic |
|--|-------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Part number | | 073047 | 073048 | 073049 | 073050 | 073051 | 073052 |
| c 'r' ' | | | | | | | |
| Specification | | | | | | | |
| Connected load ~ 230 V | kW | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 |
| Connected load ~ 400 V | kW | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 |
| Power supply | | 1/N/PE, 2/N/PE, 3/N/PE |
| Rated voltage | V | 230/400 | 230/400 | 230/400 | 230/400 | 230/400 | 230/400 |
| Frequency | Hz | 50/- | 50/- | 50/- | 50/- | 50/- | 50/- |
| Load profile | | S | М | М | L | L | XL |
| Energy efficiency class | | В | C | C | C | C | С |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.46 | 0.54 | 0.67 | 0.86 | 0.99 | 1.10 |
| Nominal capacity | 1 | 30 | 50 | 80 | 100 | 120 | 150 |
| Mixed water volume 40 °C | 1 | 50 | 80 | 122 | 133 | 182 | 229 |
| Temperature setting range | °C | 35-82 | 35-82 | 35-82 | 35-82 | 35-82 | 35-82 |
| Max. flow rate | l/min | 18 | 18 | 18 | 18 | 18 | 18 |
| Colour | | white | white | white | white | white | white |
| IP rating | | IP 25 |
| Height | mm | 770 | 740 | 1050 | 1050 | 1210 | 1445 |
| Width | mm | 410 | 510 | 510 | 510 | 510 | 510 |
| Depth | mm | 420 | 510 | 510 | 510 | 510 | 510 |
| Weight | kg | 23.10 | 28.00 | 38.00 | 40.80 | 45.50 | 53.30 |

DHW cylinders and DHW heat pumps Wall mounted cylinder

| | SH 30 S elec- tronic | SH 50 S elec- tronic | SH 80 S elec- tronic | SH 100 S elec- tronic | SH 120 S elec- tronic | SH 150 S elec- tronic |
|-------------------------|---|---|---|---|---|---|
| Required accessories | | | | | | |
| Part number | 230764 | 230764 | 230764 | 230764 | 230764 | 230764 |
| Type | SRT 2 |
| Description | Safety assembly, pressure-tested |
| Recommended accessories | | | | | | |
| Part number | 074143 | 074143 | 074143 | 074143 | 074143 | 074143 |
| Type | KV-AB 30/40 |
| Description | Cover for safety assemblies |
| Part number | 232605 | 232605 | 232605 | 232605 | 232605 | 232605 |
| Type | WKM | WKM | WKM | WKM | WKM | WKM |
| Description | Twin lever wall mounted tap, non-pressurised, for oversink in- stallation |
| Part number | 232606 | 232606 | 232606 | 232606 | 232606 | 232606 |
| Type | WDM | WDM | WDM | WDM | WDM | WDM |
| Description | Twin lever wall mounted tap, non-pressurised, for installation in shower |
| Part number | 232607 | 232607 | 232607 | 232607 | 232607 | 232607 |
| Туре | WBM | WBM | WBM | WBM | WBM | WBM |
| Description | Twin lever wall mounted tap, non-pressurised, for the bath |
| Part number | 232608 | 232608 | 232608 | 232608 | 232608 | 232608 |
| Туре | MEK | MEK | MEK | MEK | MEK | MEK |
| Description | Mono lever wall mounted tap, non-pressurised, for oversink in- stallation |

Wall mounted cylinder

PSH Universal EL



PSH 30 Universal EL

Benefits

- > Electronic display and buttons for temperature adjustment accurate to the degree
- > Power saving operation thanks to the three selectable ECO functions
- > High quality magnesium anode for optimised cylinder protection
- > At times of increased DHW demand, a boost function is available
- > Choice of vertical or horizontal installation
- > Repair work simplified by integral fault display
- > Protected ceramic heating element can be replaced without the appliance first having to be drained
- > Suitable for single or dual circuit operation (connected to off-peak economy tariff) and for manual rapid heat-up operation
- > The steel inner cylinder features a special directly applied enamel coating for a long service life
- > Very low energy losses thanks to high grade thermal insulation

Application • The sealed unvented, pressure-tested wall mounted cylinders supply DHW simultaneously to multiple draw-off points, e.g. the bathroom and kitchen. • The appliance can be used with all commercially available pressure taps. If only one draw-off point is used, this can be a non-pressurised, open vented connection. • If an off-peak economy tariff connection is available, the appliance may be used with dual circuit operation, otherwise single circuit or manual rapid heat-up operation is also possible.

Convenience features • The electronic control unit guarantees accurate temperature setting via the operating buttons. • The LCD indicates the set temperature, status and service, as required. • A maximum temperature limit can be set.

• The rapid heat-up button (boost function) provides additional convenience for increased DHW demand.

Efficiency • The intelligent ECO Dynamic function adapts automatically to the individual demand, which saves additional energy. • The high grade thermal insulation protects against heat loss. • Reverse control during off-peak economy tariff operation (dual circuit) saves on costs. This is activated via a DIP switch and takes full advantage of the off-peak periods offered by the power supply utility. It also ensures a consistently high level of DHW convenience.

• The individual components are designed for environmentally responsible sorting and recycling.

Installation • Quick and straightforward installation with the integral wall mounting bracket. • The connected load is selectable. • Straightforward replacement of all standard wall mounted cylinders. • The output and operating mode can be adjusted via 2 triple setting DIP switches. • The ceramic heating element is located inside an enamelled protective pipe and does not come into contact with the DHW. This enables dry replacement of the heating elements. • The cylinder is drained via a valve with hose connection. • The large flanged aperture allows effective and convenient descaling.

Safety • High corrosion protection is provided by the magnesium anode and the steel inner cylinder with special "anticor" directly applied enamel coating on the inside. • The anti-scalding protection also acts as childproofing. • The screen locking function prevents the set maximum temperature from being changed. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing. • The appliance is hoseproof.

| | | PSH 30 Univer- sal EL | PSH 50 Univer- sal EL | PSH 80 Univer- sal EL | PSH 100 Univer- sal EL | PSH 120 Univer- sal EL | PSH 150 Univer- sal EL |
|---------------------------|-------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| Part number | | 231150 | 231151 | 231152 | 231153 | 231649 | 231154 |
| Specification | | | | | | | |
| Connected load ~ 230 V | kW | 2.6 | 3 | 3 | 3 | 3 | 3 |
| Power supply | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Rated voltage | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Load profile | | S | M | M | L | XL | XL |
| Energy efficiency class | | В | В | В | C | C | C |
| Nominal capacity | I | 30 | 50 | 80 | 100 | 120 | 150 |
| Temperature setting range | °C | 7-85 | 7-85 | 7-85 | 7-85 | 7-85 | 7-85 |
| Max. flow rate | I/min | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white | white | white | white |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 | IP 25 | IP 25 |
| Height | mm | 696 | 951 | 893 | 1045 | 1200 | 1435 |
| Width | mm | 380 | 380 | 475 | 475 | 475 | 475 |
| Depth | mm | 392 | 392 | 492 | 492 | 492 | 492 |
| Weight | kg | 22.00 | 28.00 | 34.00 | 38.00 | 43.00 | 52.00 |

Wall mounted cylinder

PSH Classic



PSH 50 Classic

Benefits

- > Variable temperature setting via rotary selector
- > High quality magnesium anode for optimised cylinder protection
- > Visual monitoring of water temperatures via temperature curve display
- > Hot water round the clock in efficient single circuit operation
-) Low energy losses thanks to high grade thermal insulation
- > Optimised cylinder protection with special CoPro enamel coating
- > Quick and easy installation using the universal wall mounting bracket

Application • The wall mounted cylinders in a cylindrical casing supply DHW to multiple draw-off points, e.g. individual or group supply to the bathroom and kitchen. • The pressure-tested, sealed unvented appliances can be used in single circuit operation and combined with commercially available pressure taps.

Convenience features • The preferred temperature can be variably adjusted and heat-up operation is visually indicated. • The current water temperature can be conveniently read from the temperature curve display on the front of the appliance.

Efficiency • Low energy losses thanks to high grade thermal insulation made from rigid PUR foam. • Design for recycling, for environmentally responsible sorting of the various components.

Installation • Straightforward replacement of all standard wall mounted cylinders. The universal wall mounting bracket ensures quick and straightforward installation. • The appliance can be connected to systems with plastic, copper or stainless steel pipework. • The copper flanged immersion heater can be easily removed.

Safety • The high grade magnesium anode and the steel inner cylinder with special "anticor" directly applied enamel coating protect the cylinder against corrosion. • The automatic frost protection monitors the water temperature and protects the cylinder against frost. • The wall mounted cylinder is splashproof.

| | | PSH 50 Classic | PSH 80 Classic | PSH 100 Classic | PSH 120 Classic | PSH 150 Classic | PSH 200 Classic |
|--|-------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Part number | | 235960 | 235961 | 235962 | 235963 | 235964 | 235965 |
| Specification | | | | | | | |
| Connected load ~ 230 V | kW | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Power supply | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Rated voltage | V | 220-240 | 220-240 | 220-240 | 220-240 | 220-240 | 220-240 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Load profile | | M | M | L | L | L | XL |
| Energy efficiency class | | С | С | С | С | С | С |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.96 | 1.22 | 1.47 | 1.73 | 2.05 | 2.45 |
| Nominal capacity | 1 | 53 | 80 | 100 | 120 | 150 | 192 |
| Mixed water volume 40 °C | 1 | 82 | 125 | 168 | 219 | 270 | 347 |
| Temperature setting range | °C | 30-70 | 30-70 | 30-70 | 30-70 | 30-70 | 30-70 |
| Max. flow rate | I/min | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white | white | white | white |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 |
| Height | mm | 609 | 810 | 964 | 1117 | 1349 | 1704 |
| Width | mm | 475 | 475 | 475 | 475 | 475 | 475 |
| Depth | mm | 483 | 483 | 483 | 483 | 483 | 483 |
| Weight | kg | 19.00 | 28.00 | 33.00 | 39.00 | 46.00 | 56.00 |

Wall mounted cylinder

PSH Trend



PSH 30 Trend

Benefits

- > Variable temperature setting via rotary selector
- > High quality magnesium anode for optimised cylinder protection
- > Visual monitoring of water temperature via temperature display
- > Optimised cylinder protection with special CoPro enamel coating
- > Durable, low-scaling stainless steel heating element
-) Low energy losses thanks to high grade thermal insulation
- > Easy handling due to distinctive recessed grips on the appliance
- > Easy replacement of old appliances thanks to universal wall mounting

Application • The wall mounted cylinders can supply DHW simultaneously to multiple draw-off points, e.g. the bathroom and kitchen. The sealed unvented, pressure-tested appliances offer convenient and energy saving single circuit operation. • The wall mounted cylinders can be used with commercially available pressure taps.

Convenience features • The temperature can be variably adjusted. • The heat-up phase is indicated by an LED.

Efficiency • The high grade thermal insulation protects against heat loss. • The individual components are designed for environmentally responsible sorting and recycling.

Installation • The connected load is selectable. • Rapid and straightforward installation with integral wall mounting bracket. Existing wall mounted cylinders can be easily replaced. Suitable for installation in conjunction with systems with plastic, copper or stainless steel pipework. • The large flanged aperture allows effective and convenient descaling. • The stainless steel flanged immersion heater can be easily replaced.

Safety • The magnesium sacrificial anode provides additional corrosion protection. • The steel inner cylinder with special "anticor" directly applied enamel coating on the inside helps to ensure a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing. • The hoseproof appliance carries the VDE/GS and EMI symbols.

| | | PSH 30 Trend | PSH 50 Trend | PSH 80 Trend | PSH 100 Trend |
|--|-------|---------------------------|---------------------------|---------------------------|---------------------------|
| Part number | | 232080 | 232081 | 232082 | 232083 |
| | | | | | |
| Specification | | | | | |
| Connected load ~ 230 V | kW | 2 | 2 | 2 | 2 |
| Power supply | | 1/N/PE 220-240 V 50/60 Hz |
| Rated voltage | V | 220-240 | 220-240 | 220-240 | 220-240 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Load profile | | S | M | M | L |
| Energy efficiency class | | C | C | C | С |
| Standby energy consumption/ 24 h at 65 °C | kWh | 0.53 | 0.73 | 0.79 | 0.98 |
| Nominal capacity | I | 30 | 50 | 80 | 100 |
| Mixed water volume 40 °C | 1 | 52 | 99 | 142 | 186 |
| Temperature setting range | °C | 30-75 | 30-75 | 30-75 | 30-75 |
| Max. flow rate | I/min | 23.5 | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white | white |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Height | mm | 642 | 897 | 871 | 1025 |
| Width | mm | 405 | 405 | 510 | 510 |
| Depth | mm | 410 | 410 | 520 | 520 |
| Weight | kg | 16.40 | 21.40 | 28.20 | 33.60 |

PSH 150 Trend

PSH 200 Trend

| Part number | | 232084 | 232085 | 232086 |
|-------------------------|----|---------------------------|---------------------------|---------------------------|
| Specification | | | | |
| Connected load ~ 230 V | kW | 2 | 2 | 2 |
| Power supply | | 1/N/PE 220-240 V 50/60 Hz | 1/N/PE 220-240 V 50/60 Hz | 1/N/PE 220-240 V 50/60 Hz |
| Rated voltage | V | 220-240 | 220-240 | 220-240 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Load profile | | L | L | XL |
| Energy efficiency class | | С | С | C |

PSH 120 Trend

Continue on next page >

DHW cylinders and DHW heat pumps Wall mounted cylinder

| | | PSH 120 Trend | PSH 150 Trend | PSH 200 Trend |
|--|-------|---------------|---------------|---------------|
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.15 | 1.33 | 1.61 |
| Nominal capacity | 1 | 120 | 150 | 192 |
| Mixed water volume 40 °C | 1 | 224 | 288 | 351 |
| Temperature setting range | °C | 30-75 | 30-75 | 30-75 |
| Max. flow rate | I/min | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white |
| IP rating | | IP 25 | IP 25 | IP 25 |
| Height | mm | 1178 | 1410 | 1715 |
| Width | mm | 510 | 510 | 510 |
| Depth | mm | 520 | 520 | 520 |
| Weight | kg | 39.10 | 46.20 | 56.30 |

(Product: 232080, 232081, 232082, 232083, 232084, 232085, 232086)

With tubular indirect coil

PSH WE



PSH 80 WE-L

Benefits

- > Variable temperature setting ensures a high level of convenience
- > Visual monitoring of water temperatures via temperature curve display
- A DHW circulation connection increases DHW convenience in longer pipe networks
- > Durable, low-scaling stainless steel heating element
- > High energy efficiency thanks to very low standby energy losses
- > Personalised DHW convenience thanks to connection for heat exchanger and electric heating element
- > Easy to transport and install with ergonomic recessed grips on the appliance
- › Quick and easy installation using the universal wall mounting bracket

Application • The vertical wall mounted combi cylinders supply DHW to multiple draw-off points, e.g. individual and group supply to the bathroom and kitchen. The wall mounted combi cylinders are equipped with a stainless steel electric tubular heater. A tubular indirect coil is also integrated, for example for connecting the wall mounted cylinder to a central heating system. • The pressure-tested, sealed unvented appliance is suitable for all commercially available pressure taps. • It is also suitable for non-pressurised use to supply one draw-off point.

Convenience features • The temperature can be variably adjusted and heat-up operation is visually indicated. • The current water temperature can be checked using the temperature curve display.

Efficiency • The high grade thermal insulation ensures low energy losses. • Particularly economical operation is possible if the integral cylinder is connected to the heating system via the built-in tubular indirect coil. • Design for recycling allows environmentally responsible sorting of the various components.

Installation • Recessed grips on the appliance ensure safe handling. • Straightforward replacement of all standard wall mounted cylinders. The universal wall mounting bracket ensures quick and easy installation. • The integral cylinder can be installed in systems with plastic, copper or stainless steel pipework. • The flanged immersion heater is easy to remove and equipped with a second sensor well for external control of the heat generator. The large flanged aperture enables convenient descaling. • The DHW circulation connection increases DHW convenience in longer pipe networks. • The connection to the tubular indirect coil is on the left or right, depending on the model.

Safety • The high grade magnesium anode and the steel inner cylinder with special "anticor" directly applied enamel coating protect against corrosion. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing at low temperatures.

| | | PSH 80 WE-L | PSH 80 WE-R | PSH 120 WE-L | PSH 120 WE-R |
|---|-------|-------------|-------------|--------------|--------------|
| Part number | | 236230 | 236231 | 236232 | 236233 |
| Specification | | | | | |
| Connected load ~ 230 V | kW | 2 | 2 | 2 | 2 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Rated voltage | V | 220-240 | 220-240 | 220-240 | 220-240 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Standby power consumption over 24h at 65 °C | kWh | 0.893 | 0.893 | 1.19 | 1.19 |
| Energy efficiency class | | В | В | В | В |
| Nominal capacity | | 79 | 79 | 120 | 120 |
| Mixed water volume 40 °C | 1 | 128 | 128 | 209 | 209 |
| Surface area, heat exchanger | m² | 0.60 | 0.60 | 0.60 | 0.60 |
| Temperature setting range | °C | 5-80 | 5-80 | 5-80 | 5-80 |
| Min./max. conductivity, DHW | μS/cm | 100-1500 | 100-1500 | 100-1500 | 100-1500 |
| Max. flow rate | I/min | 23.5 | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white | white |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Height | mm | 871 | 871 | 1178 | 1178 |
| Depth | mm | 520 | 520 | 520 | 520 |
| Weight, empty | kg | 37.20 | 37.20 | 48.10 | 48.10 |

Wall mounted cylinder With tubular indirect coil

| | | PSH 150 WE-L | PSH 150 WE-R | PSH 200 WE-L | PSH 200 WE-R |
|---|-------|--------------|--------------|--------------|--------------|
| Part number | | 236234 | 236235 | 236236 | 236237 |
| Specification | | | | | |
| Connected load ~ 230 V | kW | 2 | 2 | 2 | 2 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Rated voltage | V | 220-240 | 220-240 | 220-240 | 220-240 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Standby power consumption over 24h at 65 °C | kWh | 1.426 | 1.426 | 1.803 | 1.803 |
| Energy efficiency class | | С | С | С | С |
| Nominal capacity | I | 151 | 151 | 191 | 191 |
| Mixed water volume 40 °C | I | 278 | 278 | 395 | 395 |
| Surface area, heat exchanger | m² | 0.60 | 0.60 | 0.60 | 0.60 |
| Temperature setting range | °C | 5-80 | 5-80 | 5-80 | 5-80 |
| Min./max. conductivity, DHW | μS/cm | 100-1500 | 100-1500 | 100-1500 | 100-1500 |
| Max. flow rate | l/min | 23,5 | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white | white |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Height | mm | 1410 | 1410 | 1715 | 1715 |
| Depth | mm | 520 | 520 | 520 | 520 |
| Weight, empty | kg | 55.20 | 55.20 | 65.30 | 65.30 |

With tubular indirect coil

PSH WE-H

PSH 80 WE-H



Benefits

- > Variable temperature setting ensures a high level of convenience
- > A DHW circulation connection increases DHW convenience in longer pipe networks
- > Durable, low-scaling stainless steel heating element
- > Personalised DHW convenience thanks to connection for heat exchanger and electric heating element
- > High energy efficiency thanks to very low standby energy losses
- > Visual monitoring of water temperatures via temperature curve display
- > Easy to transport and install with ergonomic recessed grips on the appliance
- > Wall mounting bracket for horizontal installation

Application • The horizontal wall mounted combi cylinders supply DHW simultaneously to multiple draw-off points – e.g. individual or group supply to the bathroom and kitchen. • The wall mounted combi cylinders are equipped with a stainless steel electric tubular heater. The integral tubular indirect coil allows connection to a central heating system, for example. • The pressure-tested appliance can be combined with all commercially available pressure taps or used for non-pressurised supply to a single draw-off point.

Convenience features • The preferred temperature can be variably adjusted and easily checked using the temperature curve display. • A visual display indicates when the appliance is heating up.

Efficiency • Low energy losses due to high grade thermal insulation. • The integral cylinder operates extremely economically, because it is connected to the heating system via the integral tubular indirect coil. • Design for recycling, for environmentally responsible sorting of the various components.

Installation • Safe handling thanks to integral recessed grips. • Straightforward replacement of all standard wall mounted cylinders. Quick and easy installation using the universal wall mounting bracket. • Suitable for installation in systems with plastic, copper or stainless steel pipework. • The easy to remove flanged immersion heater is equipped with a second sensor well for external control of the heat generator. The large flanged aperture allows effective and convenient descaling. • The DHW circulation connection increases DHW convenience in longer pipe networks.

Safety • The high grade magnesium anode and the steel inner cylinder with special "anticor" directly applied enamel coating protect against corrosion for a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

| | | PSH 80 WE-H | PSH 120 WE-H | PSH 150 WE-H | PSH 200 WE-H |
|---|-------|-------------|--------------|--------------|--------------|
| Part number | | 236238 | 236239 | 236240 | 236241 |
| | | | | | |
| Specification | | | | | |
| Connected load ~ 230 V | kW | 2 | 2 | 2 | 2 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Rated voltage | V | 220-240 | 220-240 | 220-240 | 220-240 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 |
| Standby power consumption over 24h at 65 °C | kWh | 1.298 | 1.691 | 1.973 | 2.31 |
| Energy efficiency class | | С | С | C | C |
| Nominal capacity | | 79 | 120 | 151 | 191 |
| Mixed water volume 40 °C | | 137 | 181 | 270 | 313 |
| Surface area, heat exchanger | m² | 0.60 | 0.60 | 0.60 | 0.60 |
| Temperature setting range | °C | 5-80 | 5-80 | 5-80 | 5-80 |
| Min./max. conductivity, DHW | μS/cm | 100-1500 | 100-1500 | 100-1500 | 100-1500 |
| Max. flow rate | I/min | 23.5 | 23.5 | 23.5 | 23.5 |
| Colour | | white | white | white | white |
| IP rating | | IP 25 | IP 25 | IP 25 | IP 25 |
| Width | mm | 871 | 1178 | 1410 | 1715 |
| Depth | mm | 538 | 538 | 538 | 538 |
| Weight, empty | kg | 42.20 | 54.10 | 61.20 | 72.50 |

DHW cylinders and DHW heat pumps Accessories for wall mounted cylinders

| Safety assemblies Accessories Installation accessories | 127 |
|--|-----|
| Accessories Twin lever taps, non-pressurised | 128 |
| Accessories Mono lever mixer taps, non-pressurised | 129 |
| Accessories | 131 |

Safety assemblies

SRT



Benefits

> The safety assembly is used as fuse protection for sealed unvented DHW cylinders

Safety assembly for installation of sealed unvented wall mounted cylinders and pressurised small water heaters on finished walls. Suitable for horizontal or vertical installation.

SRT 2

| Part number | |
|---------------------------|-----|
| | |
| Specification | |
| Max. permissible pressure | MPa |
| Pressure reducing valve | |
| Drip water connection | |
| Installation type | |
| Safety valve | bar |

ST GP

Benefits

> The safety valve is used as fuse protection for sealed unvented DHW cylinders

Application • Safety valve for wall and floor mounted cylinders.

| | | Sicherh.Gruppe 1/2" | Sicherh.Gruppe 3/4" |
|---------------------------|-----|---------------------|---------------------|
| Part number | | 073945 | 073946 |
| Specification | | | |
| Max. permissible pressure | MPa | 0.60 | 0.60 |
| Water connection | | G 1/2 | G 3/4 |

Accessories for wall mounted cylinders Installation accessories

KV-AB 30/40



Cover for KV safety assemblies. The front is made from white painted steel, the back grey painted steel. Fastening with two screws.

KV-AB 30/40

| | KV-AB 30/40 |
|-------------|-------------|
| Part number | 074143 |

Twin lever taps, non-pressurised

WKM



Benefits

- > Twin lever wall mounted tap for direct draw-off
- > Oversink version with pivoting spout
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

The non-pressurised, open vented, wall mounted tap with two rotary handles is suitable for installation on the wall above the kitchen sink or a utility sink. • The cold water connection is equipped with a non-return valve and butterfly valve. • The tap is part of a complete range in a uniform design

WKM

| | | WKM |
|-----------------------|----|------------------------|
| Part number | | 232605 |
| | | |
| Specification | | |
| Version | | Twin lever tap |
| Application | | Kitchen |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 150 |

WDN



Benefits

- > Twin lever wall mounted tap for direct draw-off
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation

Non-pressurised, open vented wall mounted tap with two rotary handles for installation in a shower. Non-return valve and butterfly valve in the cold water connection. The tap is part of a complete range in a uniform design.

WDM

| | WDM |
|-----------------------|------------------------|
| Part number | 232606 |
| | |
| Specification | |
| Version | Twin lever tap |
| Application | Shower |
| Connection | Brass tubes |
| Installation type | Wall mounted mixer tap |
| Surface | chrome plated |
| Cold water connection | 1/2 inch |

Twin lever taps, non-pressurised

WBM



Benefits

- > Twin lever wall mounted tap for direct draw-off
- > Non-pressurised operation with rotary handle, cold left and hot right

Application • Non-pressurised, open vented wall mounted twin lever tap, chrome plated, for installation on the bath. Non-return valve and butterfly valve in the cold water connection. The tap features a pivoting spout with aerator and a metal shower hose with hand shower. It forms part of a complete range in a uniform design.

WBM

| | | WBM |
|-------------------|----|------------------------|
| Part number | | 232607 |
| | | |
| Specification | | |
| Version | | Twin lever tap |
| Application | | Bathtub/shower |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Spout reach | mm | 86 |

Mono lever mixer taps, non-pressurised

MEK



Benefit

- > Mono lever wall mounted tap for direct draw-off
- > Rapid supply of domestic hot water with no waiting, thanks to non-pressurised operation
- Oversink version with pivoting spout

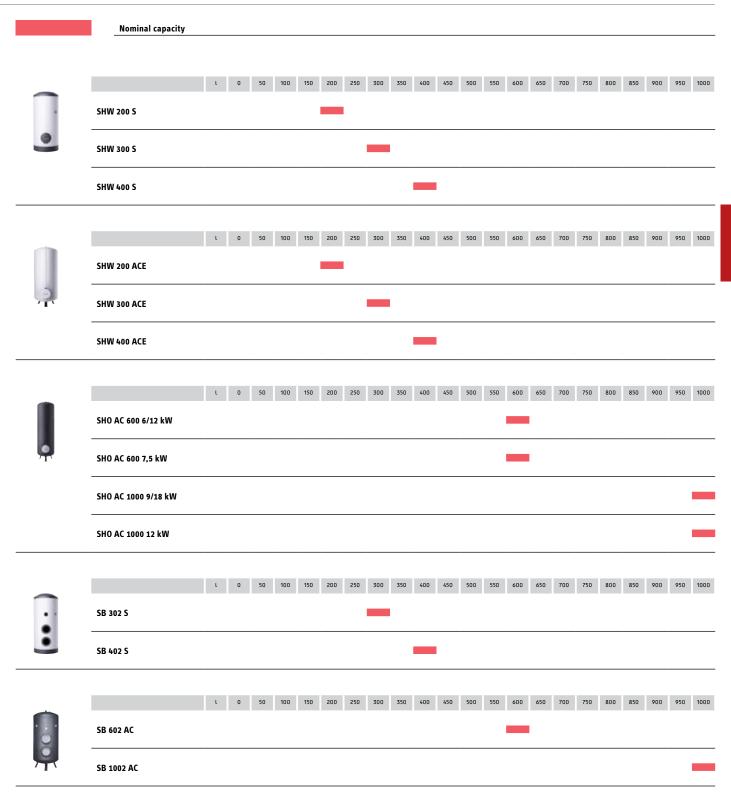
Non-pressurised, chrome plated mono lever wall mounted tap for use above the kitchen sink. Ceramic control cartridge.

MEK

| | | MEK |
|-----------------------|----|------------------------|
| Part number | | 232608 |
| Specification | | |
| Version | | Mono lever mixer tap |
| Application | | Kitchen |
| Connection | | Brass tubes |
| Installation type | | Wall mounted mixer tap |
| Surface | | chrome plated |
| Cold water connection | | 1/2 inch |
| Spout reach | mm | 185 |

Accessories for wall mounted cylinders Mono lever mixer taps, non-pressurised

Floor mounted cylinder



| Electric floor mounted cylinders, pressure-tested | |
|---|-----|
| SHW S | 135 |
| SHW ACE | 137 |
| SHO AC | 139 |
| Floor mounted combi cylinders, pressure-tested | |
| SB S | 141 |
| SB AC | 142 |

Floor mounted cylinder

Electric floor mounted cylinders, pressure-tested

SHW S



SHW 200 S

Benefits

- > Variable temperature setting via rotary selector
- > Simple maintenance due to signal anode with display element
- > Water temperature monitored by thermometer
- > Improved comfort/convenience with DHW circulation connection
- > Universal flanged immersion heater for single/dual circuit operation with a selectable connected load
- > Extremely economical due to favourable electricity tariffs (optional off-peak tariff connection)
- > Very low energy losses thanks to high grade thermal insulation
- > Complete cylinder casing with plastic jacket, cover and fascia
- > The steel inner cylinder features a special directly applied enamel coating for a long service life
- > Compensation for uneven floors via height-adjustable feet

Application • The floor mounted cylinders are suitable for detached houses or apartment buildings with a high DHW demand and a high draw-off rate. Multiple draw-off points can be supplied simultaneously (group supply). • The sealed unvented, pressure-tested appliances can be used with all commercially available pressure taps. • The flanged immersion heater is suitable for single circuit operation or cost efficient dual circuit operation with an off-peak economy tariff connection.

Convenience features • The water temperature is variably adjusted and is maintained at the temperature selected on the controller. The maximum temperature limit can be set manually. • A rapid heat-up button provides additional convenience for increased DHW demand. • The individual components are designed for environmentally responsible sorting and recycling.

Efficiency • The high grade thermal insulation protects the steel inner cylinder with directly applied foam insulation against heat loss.

Installation • Selectable connected load. • The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. • Standard delivery includes a multi-directional stainless steel cold water inlet pipe for easy-to-install cold water connection. • A DHW circulation connection increases DHW convenience in longer pipe networks. • The height-adjustable feet compensate for unevenness in the floor. • The copper flanged immersion heater is easy to replace.

Safety • The floor mounted cylinders are splashproof. • The magnesium sacrificial anode with visible replacement signal ensures optimum corrosion protection. • The steel inner cylinder with special "anticor" directly applied enamel coating on the inside helps to ensure a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

| | | SHW 200 S | SHW 300 S | SHW 400 S |
|--|-------|------------------------|------------------------|------------------------|
| Part number | | 182120 | 182121 | 182122 |
| | | | | |
| Specification | | | | |
| Connected load ~ 230 V | kW | 2-4 | 2-4 | 2-4 |
| Connected load ~ 400 V | kW | 2-6 | 2-6 | 2-6 |
| Power supply | | 1/N/PE, 3/N/PE | 1/N/PE, 3/N/PE | 1/N/PE, 3/N/PE |
| Rated voltage | V | 230/400 | 230/400 | 230/400 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Load profile | | XL | XL | XL |
| Energy efficiency class | | C | С | C |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.40 | 1.80 | 2.10 |
| Nominal capacity | 1 | 200 | 300 | 400 |
| Mixed water volume 40 °C | 1 | 318 | 447 | 639 |
| Temperature setting range | °C | 35-82 | 35-82 | 35-82 |
| Max. flow rate | I/min | 30 | 38 | 45 |
| Max. permissible pressure | MPa | 0.60 | 0.60 | 0.60 |
| Flanged immersion heater version | | universal | universal | universal |
| Colour | | pure white/basalt grey | pure white/basalt grey | pure white/basalt grey |
| IP rating | | IP 24 | IP 24 | IP 24 |
| Water connection | | G 1 A | G 1 A | G 1 A |
| Height | mm | 1578 | 1593 | 1763 |
| Width | mm | 630 | 700 | 750 |
| Depth | mm | 730 | 815 | 865 |
| Weight, empty | kg | 65 | 77 | 90 |

Continue on next page >

Floor mounted cylinder Electric floor mounted cylinders, pressure-tested

| | SHW 200 S | SHW 300 S | SHW 400 S |
|----------------------|----------------------------------|----------------------------------|----------------------------------|
| | | | |
| Required accessories | | | |
| Part number | 074370 | 074370 | 074370 |
| Type | ZH 1 | ZH 1 | ZH 1 |
| Description | Safety assembly, pressure-tested | Safety assembly, pressure-tested | Safety assembly, pressure-tested |
| Part number | 074371 | 074371 | 074371 |
| Туре | DMV/ZH 1 | DMV/ZH 1 | DMV/ZH 1 |
| Description | Pressure reducing valve | Pressure reducing valve | Pressure reducing valve |
| Part number | 074373 | | |
| Туре | SV 1/2 6 bar | | |
| Description | Safety valve for DHW cylinder | | |
| Part number | | 074374 | 074374 |
| Туре | | SV 3/4 6 bar | SV 3/4 6 bar |
| Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder |
| Part number | | 074375 | 074375 |
| Туре | | SV 3/4 10 bar | SV 3/4 10 bar |
| Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder |

Floor mounted cylinder

Electric floor mounted cylinders, pressure-tested

SHW ACE



SHW 200 ACI

Benefits

- > Variable temperature setting via rotary selector
- > Simple maintenance due to signal anode with display element
- > Water temperature monitored by thermometer
- > Improved comfort/convenience with DHW circulation connection
- > Efficient single circuit operation with selectable connected load
- Very low energy losses thanks to high grade thermal insulation
 Plastic jacket to protect the cylinder
- > The steel inner cylinder features a special directly applied enamel coating for a long service life

Application • The floor mounted cylinders supply DHW to detached houses and apartment buildings with high DHW demand and a high draw-off rate. • The sealed unvented, pressure-tested appliances also provide a group supply to multiple draw-off points. They can be used with all commercially available pressure taps, and are suitable for single circuit operation.

Convenience features • The temperature is variably selected and maintained at the level set on the controller. • A temperature limit can be set if required.

Efficiency • Low heat losses due to high grade thermal insulation in the form of efficient directly applied foam. • Optimised design for recycling, with the ability to separate the various components and reusable materials.

Installation • Selectable connected load. • The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. • The integral DHW circulation connection increases DHW convenience in longer pipe networks. • The copper flanged immersion heater is easy to replace. • The floor mounted cylinder is splashproof.

Safety • The high grade signal anode with consumption indicator and the steel inner cylinder with special "anticor" directly applied enamel coating ensure comprehensive protection against corrosion for a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

| Part number Specification Connected load ~ 230 V Connected load ~ 400 V Power supply | kW kW | SHW 200 ACE 070074 | SHW 300 ACE 070075 | SHW 400 ACE 070076 |
|--|----------|----------------------------------|----------------------------------|----------------------------------|
| Specification Connected load ~ 230 V Connected load ~ 400 V | | | 070075 | 070076 |
| Connected load ~ 230 V Connected load ~ 400 V | | | | |
| Connected load ~ 400 V | | | | |
| | kW | 2-6 | 2-6 | 2-6 |
| Power supply | | 4-6 | 4-6 | 4-6 |
| | | 1/N/PE, 3/N/PE | 1/N/PE, 3/N/PE | 1/N/PE, 3/N/PE |
| Rated voltage | ٧ | 230/400 | 230/400 | 230/400 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Load profile | | XL | XL | XL |
| Energy efficiency class | | С | C | С |
| Standby energy consumption/ k 24 h at 65 °C | Wh | 1.90 | 2.30 | 2.60 |
| Nominal capacity | I | 200 | 300 | 400 |
| Mixed water volume 40 °C | 1 | 317 | 490 | 618 |
| Temperature setting range | °C | 35-82 | 35-82 | 35-82 |
| Max. flow rate | nin | 30 | 38 | 45 |
| Max. permissible pressure | 1Pa | 0.60 | 0.60 | 0.60 |
| Flanged immersion heater version | | Single circuit | Single circuit | Single circuit |
| Colour | | white | white | white |
| Water connection | | G 1 | G 1 | G 1 |
| Height | nm | 1578 | 1593 | 1763 |
| Width | nm | 550 | 650 | 700 |
| Depth | nm | 690 | 790 | 840 |
| Weight, empty | kg | 54 | 67 | 85 |
| Required accessories | | | | |
| Part number | | 074370 | 074370 | 074370 |
| Туре | | ZH 1 | ZH 1 | ZH 1 |
| Description | | Safety assembly, pressure-tested | Safety assembly, pressure-tested | Safety assembly, pressure-tested |
| Part number | | 074371 | 074371 | 074371 |
| Туре | | DMV/ZH 1 | DMV/ZH 1 | DMV/ZH 1 |
| Description | | Pressure reducing valve | Pressure reducing valve | Pressure reducing valve |

Floor mounted cylinder Electric floor mounted cylinders, pressure-tested

| | SHW 200 ACE | SHW 300 ACE | SHW 400 ACE |
|-------------|-------------------------------|-------------------------------|-------------------------------|
| Part number | 074373 | | |
| Туре | SV 1/2 6 bar | | |
| Description | Safety valve for DHW cylinder | | |
| Part number | | 074374 | 074374 |
| Туре | | SV 3/4 6 bar | SV 3/4 6 bar |
| Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder |
| Part number | | 074375 | 074375 |
| Туре | | SV 3/4 10 bar | SV 3/4 10 bar |
| Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder |

Floor mounted cylinder

Electric floor mounted cylinders, pressure-tested

SHO AC



SHO AC 600 6/12 kW

Benefits

- > Variable temperature setting via rotary selector
- > Simple maintenance due to signal anode with display element
- > Water temperature monitored by thermometer
- > Improved comfort/convenience with DHW circulation connection
- > Flanged immersion heater suitable for single circuit operation or dual circuit/single circuit operation, depending on type
- > Extremely economical due to favourable electricity tariffs (optional off-peak tariff connection)
- > Very low energy losses thanks to high grade thermal insulation
- The steel inner cylinder features a special directly applied enamel coating for a long service life

Application • The floor mounted cylinders have been developed for very high DHW demand and draw-off rate. They are suitable for DHW supply to multiple draw-off points (individual and group supply) in residential, commercial and industrial buildings. • The pressure-tested, sealed unvented appliances can be connected to all commercially available pressure taps. • The flanged immersion heater can be used for single circuit or dual circuit operation, depending on the model.

Convenience features • The water temperature is variably adjusted and is maintained at the temperature selected on the controller. The maximum temperature limit can be set manually. • The individual components are designed for environmentally responsible sorting and recycling.

Installation • The connected load of these splashproof appliances varies by type. • The water connection is suitable for pipework made from copper, plastic, stainless steel or zinc-plated steel. • The DHW circulation connection increases DHW convenience in longer pipe networks. • Individual radiators can be easily replaced.

Safety • The magnesium sacrificial anode with visible replacement signal provides additional corrosion protection.
• The steel inner cylinder with special "anticor" directly applied enamel coating on the inside helps to ensure a long service life. • Automatic frost protection monitors the water temperature and prevents the cylinder from freezing.

| | | SHO AC 600 6/12 kW | SHO AC 600 7,5 kW | SHO AC 1000 9/18 kW | SHO AC 1000 12 kW |
|--|-------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Part number | | 003352 | 001414 | 003353 | 001415 |
| Specification | | | | | |
| Connected load ~ 400 V | kW | 6-12 | 7,5 | 9/18 | 12 |
| Power supply | | 3/N/PE | 3/PE | 3/N/PE | 3/PE |
| Rated voltage | ٧ | 400 | 400 | 400 | 400 |
| Frequency | Hz | 50 | 50/60 | 50 | 50 |
| Load profile | | XL | XL | XL | XL |
| Energy efficiency class | | С | С | С | С |
| Standby energy consumption/ 24 h at 65 °C | kWh | 2.90 | 2.90 | 3.70 | 3.70 |
| Nominal capacity | I | 600 | 600 | 1000 | 1000 |
| Mixed water volume 40 °C | I | 1134 | 835 | 1829 | 1533 |
| Temperature setting range | °C | 35-85 | 35-85 | 35-85 | 35-85 |
| Max. flow rate | l/min | 40 | 40 | 45 | 45 |
| Max. permissible pressure | MPa | 0.60 | 0.60 | 0.60 | 0.60 |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 |
| Water connection | | G 2 A / G 1 1/2 A | G 2 A / G 1 1/2 A | G 2 A / G 1 1/2 A | G 2 A / G 1 1/2 A |
| Height | mm | 1685 | 1685 | 2525 | 2525 |
| Width | mm | 750 | 750 | 750 | 750 |
| Depth | mm | 1000 | 1000 | 1000 | 1000 |
| Weight, empty | kg | 161 | 160 | 232 | 230 |
| Required accessories | | | | | |
| Part number | | 074370 | 074370 | 074370 | 074370 |
| Туре | | ZH 1 | ZH 1 | ZH 1 | ZH 1 |
| Description | | Safety assembly, pres- sure-tested | Safety assembly, pres- sure-tested | Safety assembly, pres- sure-tested | Safety assembly, pres- sure-tested |
| Part number | | 074371 | 074371 | 074371 | 074371 |
| | | | 5407711 | 5407/711 | B10//7/1 |

DMV/ZH 1

Pressure reducing valve

DMV/ZH 1

Pressure reducing valve

Pressure reducing valve

DMV/ZH 1

DMV/ZH 1

Pressure reducing valve

Type

Description

Floor mounted cylinder Electric floor mounted cylinders, pressure-tested

| | SHO AC 600 6/12 kW | SHO AC 600 7,5 kW | SHO AC 1000 9/18 kW | SHO AC 1000 12 kW |
|-------------------------|---|--|---|---|
| Part number | 074374 | 074374 | 074374 | 074374 |
| Type | SV 3/4 6 bar | SV 3/4 6 bar | SV 3/4 6 bar | SV 3/4 6 bar |
| Description | Safety valve for DHW cyl- inder | Safety valve for DHW cyl- inder | Safety valve for DHW cyl- inder | Safety valve for DHW cyl- inder |
| Part number | 074375 | 074375 | 074375 | 074375 |
| Type | SV 3/4 10 bar | SV 3/4 10 bar | SV 3/4 10 bar | SV 3/4 10 bar |
| Description | Safety valve for DHW cyl- inder | Safety valve for DHW cyl- inder | Safety valve for DHW cyl- inder | Safety valve for DHW cyl- inder |
| Recommended accessories | | | | |
| Part number | 236077 | 236077 | | |
| Type | WDS 600 | WDS 600 | | |
| Description | Thermal insulation, floor mounted cylinder | Thermal insulation, floor mounted cylinder | | |
| Part number | | | 236078 | 236078 |
| Type | | | WDS 1000 | WDS 1000 |
| Description | | | Thermal insulation, floor mounted cylinder | Thermal insulation, floor mounted cylinder |

Floor mounted cylinder

Floor mounted combi cylinders, pressure-tested

SB S



SB 302 S

Benefits

- > Connection according to individual requirements through the two flanged apertures
- > Simple maintenance due to signal anode with display element
- > Visual monitoring of water temperature via temperature display
- > Complete cylinder casing with plastic jacket, cover and fascia
- > Very low energy losses thanks to high grade thermal insulation
- > The steel inner cylinder features a special directly applied enamel coating for a long service life

Application • The floor mounted cylinders supply DHW in detached houses or apartment buildings and in commercial premises with a high DHW demand and a high draw-off rate. Their large nominal capacity and pressure-tested, sealed unvented operation enable them to supply DHW to multiple draw-off points simultaneously.

Convenience features • The flanged apertures are equipped with dust caps, and are fitted with either a flanged immersion heater or a blank flange.

Safety & quality • The high grade magnesium anode and steel inner cylinder with special "anticor" directly applied enamel coating protect against corrosion and ensure a long service life.

| Depth mm 700 Immersion depth mm 530 550 Weight, empty kg 101 119 Flange diameter mm 210 221 Required accessories Required accessories Part number O 74370 O 74370 Type Safety assembly, pressure-tested Safety assembly, pressure-tested <th cols<="" th=""><th></th><th></th><th>SB 302 S</th><th>SB 402 S</th></th> | <th></th> <th></th> <th>SB 302 S</th> <th>SB 402 S</th> | | | SB 302 S | SB 402 S |
|---|---|--------|--------------------------------------|--------------------------------------|----------|
| Energy efficiency class C C C Nominal capacity I 300 400 Colour pure white/basalt grey pure white/basalt grey Number of flanged apertures 2 2 Water connection 61 A 61 A Height mm 1555 Width mm 750 Depth mm 750 Depth mm 750 Immersion depth mm 530 Weight, empty kg 101 119 Flange diameter mm 210 220 Required accessories Required accessories Required accessories Required accessories Part number 074370 974370 974370 Type Safety assembly, pressure-tested Safety assembly, pressure | Part number | | 185354 | 185355 | |
| Nominal capacity I Momer of plure white/basalt grey Momer of flanged apertures pure white/basalt grey 2 3 | Specification | | | | |
| Nominal capacity I Momer of plure white/basalt grey Momer of flanged apertures pure white/basalt grey 2 3 | Energy efficiency class | | С | С | |
| Number of flanged apertures 2 1 Water connection 6.1 A 6.1 A Height mm 1.885 1.7755 Width mm 7.00 7.50 Depth mm 7.00 7.50 Immersion depth mm 6.00 5.00 Weight, empty kg 1.01 1.19 Flange diameter mm 2.10 2.10 Required accessories Part number 0.74370 0.74370 Type 2.11 <td></td> <td>I</td> <td>300</td> <td>400</td> | | I | 300 | 400 | |
| Water connection G 1 A G 1 A G 1 A G 1 A G 1 A Height mm M 0 755 M 755 | Colour | | pure white/basalt grey | pure white/basalt grey | |
| Height mm 1755 Width mm 700 750 Depth mm 750 750 Depth mm 600 550 Immersion depth mm 600 560 Weight, empty kg 101 119 Flange diameter mm 200 200 Required accessories Part number 9 9 211 211 Excription Safety assembly, persour-etested Safety assembly, pressure-tested Safety assembly, pressure-tested Safety number 9 | Number of flanged apertures | | 2 | 2 | |
| Width mm 700 750 Depth mm 750 750 Immersion depth mm 530 580 Weight, empty kg 101 119 Flange diameter mm 210 119 Required accessories Required accessories Part number 074370 074370 Type 294 241 241 241 Description Safety assembly, pressure-tested 361ety assembly, pressure | Water connection | | G 1 A | G 1 A | |
| Depth mm 700 Immersion depth mm 530 550 Weight, empty kg 101 119 Flange diameter mm 210 221 Required accessories Required accessories Part number O 74370 O 74370 Type Safety assembly, pressure-tested Safety assembly, pressure-tested <th cols<="" td=""><td>Height</td><td>mm</td><td>1585</td><td>1755</td></th> | <td>Height</td> <td>mm</td> <td>1585</td> <td>1755</td> | Height | mm | 1585 | 1755 |
| Immersion depth mm 530 580 Weight, empty kg 101 119 Flange diameter mm 210 210 Required accessories Sequired accessories Part number OP4370 OP4371 OP4371 <th< td=""><td>Width</td><td>mm</td><td>700</td><td>750</td></th<> | Width | mm | 700 | 750 | |
| Weight, empty kg 101 119 Flange diameter mm 210 121 Required accessories Sequired accessories Part number O 74370 O 74370 Type Safety assembly, pressure-tested Safety assembly, pressure-tested Part number O 74371 O 74375 O 74374 O 74375 O 74374 O 74374 <th colsp<="" td=""><td>Depth</td><td>mm</td><td>700</td><td>750</td></th> | <td>Depth</td> <td>mm</td> <td>700</td> <td>750</td> | Depth | mm | 700 | 750 |
| Flange diameter mm 200 Required accessories Commender Commender Part number Safety assembly, pressure-tested Safety assembly, pressure-tested Part number Safety assembly, pressure-tested Safety assembly, pressure-tested Part number MM/ZH 1 Description Description Pressure reducing valve Pressure reducing valve Part number Pressure reducing valve Pressure reducing valve Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Pressure reducing valve Safety valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Pressure reducing valve Fres 21/160 Fres 21/160 De | Immersion depth | mm | 530 | 580 | |
| Flange diameter mm 200 Required accessories Commender Commender Part number Safety assembly, pressure-tested Safety assembly, pressure-tested Part number Safety assembly, pressure-tested Safety assembly, pressure-tested Part number MM/ZH 1 Description Description Pressure reducing valve Pressure reducing valve Part number Pressure reducing valve Pressure reducing valve Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Pressure reducing valve Safety valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number Pressure reducing valve Fres 21/160 Fres 21/160 De | Weight, empty | kg | 101 | 119 | |
| Part number 074370 074370 Type 2H 1 2H 1 Description Safety assembly, pressure-tested Safety assembly, pressure-tested Part number 074371 074371 Type DMV/ZH 1 DMV/ZH 1 Description Pressure reducing valve Pressure reducing valve Part number 074374 074374 Type SV 3/4 6 bar SV 3/4 6 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Part number 074375 074375 Type SV 3/4 10 bar Safety valve for DHW cylinder Description Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number 071330 071330 Type FCR 21/60 FCR 21/60 Description Flanged immersion heater Flanged immersion heater Part number 071331 | | | 210 | 210 | |
| Type ZH 1 ZH 1 Description Safety assembly, pressure-tested Safety assembly, pressure-tested Part number O74371 O74371 Type DMV/ZH 1 DMV/ZH 1 Description Pressure reducing valve Pressure reducing valve Vart number O74374 O74374 Type SV 3/4 6 bar SV 3/4 6 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Part number SV 3/4 10 bar SV 3/4 10 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number O71330 O71330 Type FCR 21/60 FCR 21/60 Description Flanged immersion heater Flanged immersion heater Part number O71331 O71331 Type FCR 21/120 FCR 21/120 Description Flanged immersion heater FCR 21/120 FCR 21/120 Description Flanged immersion heater | Required accessories | | | | |
| Description Safety assembly, pressure-tested Safety assembly, pressure-tested Part number 074371 074371 Type DMV/ZH 1 DMV/ZH 1 Description Pressure reducing valve Pressure reducing valve Part number 074374 074374 Type SV 3/4 6 bar SV 3/4 6 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Part number 074375 074375 Type SV 3/4 10 bar SV 3/4 10 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number 071330 071330 Type FCR 21/60 FCR 21/60 Description Flanged immersion heater Flanged immersion heater Part number 071331 071331 Type FCR 21/120 FCR 21/120 Description Flanged immersion heater Flanged immersion heater Part number 076102 076102 | Part number | | 074370 | 074370 | |
| Description Safety assembly, pressure-tested Safety assembly, pressure-tested Part number 074371 074371 Type DMV/ZH 1 DMV/ZH 1 Description Pressure reducing valve Pressure reducing valve Part number 074374 074374 Type SS Sy 3/4 6 bar SS 46 by valve for DHW cylinder Part number Safety valve for DHW cylinder Safety valve for DHW cylinder Part number SS 50 3/4 10 bar SV 3/4 10 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories SS 50 3/4 10 bar SS 50 3/4 10 bar Part number 071330 SS 50 3/4 10 bar Type FCR 21/60 FCR 21/60 Description FCR 21/60 FCR 21/60 Description Flanged immersion heater Flanged immersion heater Part number 071331 071331 Type FCR 21/120 FCR 21/120 Description FCR 21/120 FCR 21/120 Description FCR 21/120 FCR 21/120 <td>Type</td> <td></td> <td>ZH 1</td> <td>ZH 1</td> | Type | | ZH 1 | ZH 1 | |
| Part number 074371 Type DMV/ZH 1 DMV/ZH 1 Description Pressure reducing valve Pressure reducing valve Part number OY34374 OY34374 Type SV 3/4 6 bar SV 3/4 6 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Part number OY34375 SV 3/4 10 bar Description Safety valve for DHW cylinder Safety valve for DHW cylinder Recommended accessories Safety valve for DHW cylinder Safety valve for DHW cylinder Part number O71330 O71330 Type FCR 21/60 FCR 21/60 Description Flanged immersion heater Flanged immersion heater Part number O71331 O71331 Type FCR 21/120 FCR 21/120 Description FCR 21/120 FCR 21/120 Description Flanged immersion heater Part number O76102 FCR 21/120 Description Flanged immersion heater Flanged immersion heater | | | Safety assembly, pressure-tested | Safety assembly, pressure-tested | |
| DescriptionPressure reducing valvePressure reducing valvePart number074374074374TypeSV 3/4 6 barSV 3/4 6 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderPart number074375074375TypeSV 3/4 10 barSV 3/4 10 barDescriptionSafety valve for DHW cylinderRecommended accessoriesValue071330TypeFCR 21/60FCR 21/60DescriptionFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart numberFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | | | | | |
| Part number074374TypeSV 3/4 6 barSV 3/4 6 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderPart number074375074375TypeSV 3/4 10 barSV 3/4 10 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderRecommended accessoriesVariationVariationPart number071330071330TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFCR 21/120DescriptionFlanged immersion heaterFCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart numberFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21076102 | Type | | DMV/ZH 1 | DMV/ZH 1 | |
| Part number074374TypeSV 3/4 6 barSV 3/4 6 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderPart number074375074375TypeSV 3/4 10 barSV 3/4 10 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderRecommended accessoriesVariationVariationPart number071330071330TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFCR 21/120DescriptionFlanged immersion heaterFCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart numberFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21076102 | Description | | Pressure reducing valve | Pressure reducing valve | |
| Description Safety valve for DHW cylinder O74375 Part number O74375 Type SV 3/4 10 bar SV 3/4 10 bar SV 3/4 10 bar Description Safety valve for DHW cylinder Recommended accessories Part number O71330 Type SCR 21/60 Description Flanged immersion heater Flanged immersion heater Part number FCR 21/120 Description Flanged immersion heater Flanged | Part number | | | | |
| DescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderPart number074375TypeSV 3/4 10 barSV 3/4 10 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderRecommended accessoriesSafety valve for DHW cylinderPart number071330071330TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart numberFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | Type | | SV 3/4 6 bar | SV 3/4 6 bar | |
| Part number074375TypeSV 3/4 10 barSV 3/4 10 barDescriptionSafety valve for DHW cylinderSafety valve for DHW cylinderRecommended accessoriesPart number071330071330TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart numberFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | | | Safety valve for DHW cylinder | Safety valve for DHW cylinder | |
| Description Safety valve for DHW cylinder Recommended accessories Commended accessories Part number 071330 071330 Type FCR 21/60 FCR 21/60 FCR 21/60 FCR 21/60 FCR 21/60 FCR 21/60 PER 21/60 FER 21/60 PER 21/60 PER 21/20 FCR 21/120 FCR 21/120 FCR 21/120 FCR 21/120 FCR 21/120 PCR 21/120 FCR 21/120 < | Part number | | | | |
| DescriptionSafety valve for DHW cylinderRecommended accessoriesO71330Part number071330071330TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart numberFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | Type | | SV 3/4 10 bar | SV 3/4 10 bar | |
| Part number071330TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102Flanged immersionTypeB21B21 | Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder | |
| TypeFCR 21/60FCR 21/60DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | Recommended accessories | | | | |
| DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | Part number | | 071330 | 071330 | |
| DescriptionFlanged immersion heaterFlanged immersion heaterPart number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | Type | | FCR 21/60 | FCR 21/60 | |
| Part number071331071331TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102B21 | | | | | |
| TypeFCR 21/120FCR 21/120DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | · | | | | |
| DescriptionFlanged immersion heaterFlanged immersion heaterPart number076102076102TypeB21B21 | | | FCR 21/120 | FCR 21/120 | |
| Part number 076102 076102 Type B21 B21 | | | | | |
| Type B21 B21 | · | | | | |
| 71 | | | | | |
| | Description | | Blank flange, floor mounted cylinder | Blank flange, floor mounted cylinder | |

Floor mounted cylinder

Floor mounted combi cylinders, pressure-tested

SB AC



SB 602 A0

Benefits

- > Connection according to individual requirements through the two flanged apertures
- > Simple maintenance due to signal anode with display element
- > Very low energy losses thanks to high grade thermal insulation
- > The steel inner cylinder features a special directly applied enamel coating for a long service life
- > Visual monitoring of water temperature via temperature display

Application • The floor mounted cylinders are suitable for providing DHW in detached houses or apartment buildings and in commercial premises with a high DHW demand and a high draw-off rate. They can supply DHW to multiple draw-off points simultaneously.

Convenience features • The flanged apertures are equipped with dust caps and can be fitted with either a flanged immersion heater or a blank flange.

Safety • The high grade magnesium anode and the steel inner cylinder with special "anticor" directly applied enamel coating protect against corrosion and ensure a long service life.

| | | SB 602 AC | SB 1002 AC |
|-------------------------|----|----------------------------------|----------------------------------|
| Part number | | 071554 | 071282 |
| Specification | | | |
| Nominal capacity | ı | 600 | 1000 |
| Water connection | | G 2 A / G 1 1/2 A | top/bottom: G 2 / G 1 1/2 |
| Height | mm | 1685 | 2525 |
| Width | mm | 750 | 750 |
| Depth | mm | 800 | 800 |
| Weight, empty | kg | 154 | 212 |
| Required accessories | | | |
| Part number | | 074370 | 074370 |
| Туре | | ZH 1 | ZH 1 |
| Description | | Safety assembly, pressure-tested | Safety assembly, pressure-tested |
| Part number | | 074371 | 074371 |
| Туре | | DMV/ZH 1 | DMV/ZH 1 |
| Description | | Pressure reducing valve | Pressure reducing valve |
| Part number | | 074374 | 074374 |
| Туре | | SV 3/4 6 bar | SV 3/4 6 bar |
| Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder |
| Part number | | 074375 | 074375 |
| Туре | | SV 3/4 10 bar | SV 3/4 10 bar |
| Description | | Safety valve for DHW cylinder | Safety valve for DHW cylinder |
| Recommended accessories | | | |
| Part number | | 000694 | 000694 |
| Type | | FCR 28/120 E | FCR 28/120 E |
| Description | | Flanged immersion heater | Flanged immersion heater |
| Part number | | 000695 | 000695 |
| Туре | | FCR 28/180 E | FCR 28/180 E |
| Description | | Flanged immersion heater | Flanged immersion heater |
| Part number | | 000696 | 000696 |
| Туре | | FCR 28/270 E | FCR 28/270 E |
| Description | | Flanged immersion heater | Flanged immersion heater |
| Part number | | 001502 | 001502 |
| Туре | | FCR 28/360 E | FCR 28/360 E |
| Description | | Flanged immersion heater | Flanged immersion heater |
| Part number | | 071332 | 071332 |
| Туре | | FCR 28/120 | FCR 28/120 |
| Description | | Flanged immersion heater | Flanged immersion heater |

Floor mounted cylinder Floor mounted combi cylinders, pressure-tested

| | SB 602 AC | SB 1002 AC |
|-------------|--|--|
| Part number | 071333 | 071333 |
| Туре | FCR 28/180 | FCR 28/180 |
| Description | Flanged immersion heater | Flanged immersion heater |
| Part number | 076103 | 076103 |
| Туре | B28 | B28 |
| Description | Blank flange, floor mounted cylinder | Blank flange, floor mounted cylinder |
| Part number | 236079 | |
| Туре | WDS 602 | |
| Description | Thermal insulation, floor mounted cylinder | |
| Part number | | 236080 |
| Туре | | WDS 1002 |
| Description | | Thermal insulation, floor mounted cylinder |

DHW cylinders and DHW heat pumps Accessories for floor mounted cylinders, pressure-tested

| Electric threaded immersion heaters and flanged immersion heaters Accessories | 145 |
|---|-----|
| Safety assemblies Accessories | 147 |
| Thermal insulation | 117 |
| Accessories | 149 |

FCR 28/180

Accessories for floor mounted cylinders, pressure-tested

Electric threaded immersion heaters and flanged immersion heaters

FCR



Benefits

- > Replaceable copper heating element
- > For matching to individual usage scenarios

FCR 21/60

IP 24

325

280

- > High DHW convenience thanks to powerful heating elements
- > Variable temperature setting via rotary selector
- > Test techn. Bullets\${att.sf000694.value} \${att.sf000694.name} (Product: 000694)

Application • Flanged immersion heaters for horizontal installation in sealed DHW cylinders with flange connector to DIN 4805.

FCR 28/120

FCR 28/120 E

IP 24

450

280

Convenience features • Variable temperature selection and temperature limiting possible.

FCR 21/120

Safety and quality • Observe the details supplied by the cylinder manufacturer and DIN 4753 or 4751.

FCR 21/60

IP rating

Immersion depth

Flange diameter

| Part number | | 071330 | 071331 | 071332 | 000694 | 071333 |
|-------------------------------|----|---------------------|----------------------|---------------------|----------------|---------------------|
| Specification | | | | | | |
| Connected load ~ 230 V | kW | 2-4 | 4 | | | |
| Connected load ~ 400 V | kW | 2-6 | 8/12 | 6/12 | 12 | 9/18 |
| Power supply | | 1/N/PE, 3/N/PE | 1/N/PE, 2/N/PE, 3/PE | 3/PE | 3/PE | 3/PE |
| Rated voltage | V | 230/400 | 230/400 | 400 | 400 | 400 |
| Coil voltage | V | 230 | 230 | 230 | 400 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50 | 50 | 50 |
| Version | | Dual/single circuit | Single circuit | Dual/single circuit | Single circuit | Dual/single circuit |
| Integral contactor | | X | <u>-</u> | X | X | X |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 |
| Immersion depth | mm | 400 | 400 | 450 | 325 | 450 |
| Flange diameter | mm | 210 | 210 | 280 | 280 | 280 |
| | | FCR 28/180 E | FCR 28/270 E | FCR 28/270 E Si | FCR 28/360 E | |
| Part number | | 000695 | 000696 | 075141 | 001502 | |
| Specification | | | | | | |
| Connected load ~ 400 V | kW | 18 | 27 | 27 | 36 | |
| | | | 5 /DE | 3/PE | 2/05 | |
| Power supply | | 3/PE | 3/PE | 3/70 | 3/PE | |
| Power supply Rated voltage | V | 3/PE 400 | 3/PE 400 | 400 | 400 | |
| | | | | | | |
| Rated voltage | | 400 | 400 | | 400 | |
| Rated voltage Coil voltage | V | 400 400 | 400 400 | 400 | 400 400 | |

IP 24

325

280

325

280

Electric threaded immersion heaters and flanged immersion heaters

BGC



Benefits

- > For matching to individual usage scenarios
- > High DHW convenience thanks to powerful heating elements
- > Variable temperature setting via rotary selector

Application • Threaded immersion heater for sealed unvented heating systems and DHW heating systems.

Convenience features • Variable temperature selection and temperature limiting possible.

Safety and quality • Integral temperature controller with high limit safety cut-out.

BGC 6 kW 500 mm ET

| | | BGC 6 kW 500 mm ET | BGC/45 | BGC 2/60 |
|------------------------|----|--------------------|--------------------|--------------------|
| Part number | | 003769 | 075115 | 232030 |
| | | | | |
| Specification | | | | |
| Connected load ~ 230 V | kW | 2-5,7 | 2-5,7 | 2-5,7 |
| Connected load ~ 400 V | kW | 6 | 6 | 6 |
| Power supply | | 1/N/PE, 2/PE, 3/PE | 1/N/PE, 2/PE, 3/PE | 1/N/PE, 2/PE, 3/PE |
| Rated voltage | V | 230/400 | 230/400 | 230/400 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Version | | Universal flange | Universal flange | Universal flange |
| IP rating | | IP 44 | IP 44 | IP 44 |
| Immersion depth | mm | 500 | 455 | 480 |

BG



Benefits

) Ideal for sealing the floor mounted cylinder if not all flanged apertures are used

Blank flange for sealing flanged apertures, enamel coated on the inside.

B21

| | | B21 | B28 |
|-----------------|----|--------|--------|
| Part number | | 076102 | 076103 |
| | | | |
| Specification | | | |
| Flange diameter | mm | 210 | 280 |

 $\label{lem:condition} \textbf{Gaskets, screws with insulating sleeves and cover with thermal insulation.}$

Safety assemblies

ZH1



Benefits

- > Maximum safety evidenced by DVGW certification mark
- > Long service life and reliability thanks to the use of high quality components

Application • Safety assembly for pressurised floor mounted electric and combi cylinders. • Standard delivery includes a shut-off valve, non-return valve with test facility, pressure gauge connection, diaphragm safety valve and drain outlet. • A pipe break is integrated into the drain outlet of the safety valve, which prevents the waste water being sucked back. • With its threaded connection, the safety valve can be rotated, repositioned or replaced to match it to different installation situations. • The safety assembly enables angled or straight-through installation in horizontal and vertical pipework. • In vertical pipework, install the safety assembly only in a bottom to top flow direction. A pressure reducing valve can be retrofitted if required.

ZH 1

| Part number | |
|--------------------------------|-----|
| | |
| Specification | |
| Safety valve response pressure | MPa |
| Pressure reducing valve | |
| Drip water connection | |
| Water connection | |
| Installation type | |
| Safety valve | bar |

DMV/ZH 1



Benefits

> Reduced inlet pressure through additional pressure reducing valve

Pressure reducing valve to supplement the safety assembly for pressurised floor mounted electric and combi cylinders.

DMV/ZH 1

| | | DMV/ZH 1 |
|---------------------------------------|-----|-----------------|
| Part number | | 074371 |
| Specification | | |
| Pressure reducing valve | | • |
| Pressure reducing valve setting range | MPa | 0,15 - 0,60 |
| Water connection | | G 1 |
| Installation type | | Surface mounted |

Safety assemblies



Benefits
) The safety valve is used as fuse protection for sealed unvented DHW cylinders

 ${\bf Diaphragm\ safety\ valve\ with\ brass\ casing\ for\ pressurised\ DHW\ cylinders.}$

SV 1/2 6 bar

| | | SV 1/2 6 bar | SV 3/4 6 bar | SV 3/4 10 bar |
|--------------------------------|-----|--------------|--------------|---------------|
| Part number | | 074373 | 074374 | 074375 |
| Specification | | | | |
| Safety valve response pressure | MPa | 0.60 | 0.60 | 1.00 |
| Water connection | | G 1/2 | G 3/4 | G 3/4 |

Thermal insulation

WDS



WDS 600

Benefits

- > Two insulation semi-shells to make it easier to match the shape
- > Graphite inserts for best insulation properties
- > Low energy losses thanks to high grade thermal insulation

Application • High grade thermal insulation with sections for insulating the bottom and the cover of floor mounted cylinders.

Convenience features • Outer jacket in white; cover in black.

Efficiency • Good thermal insulation which can be perfectly fitted to the cylinder thanks to the wedge-shaped cutouts in the side insulation sections.

Installation • Zip fasteners to easily secure the thermal insulation.

| | | WDS 600 | WDS 602 | WDS 1000 | WDS 1002 |
|--|-----|---------|---------|----------|----------|
| Part number | | 236077 | 236079 | 236078 | 236080 |
| Specification | | | | | |
| Standby energy consumption/ 24 h at 65 °C | kWh | 2.30 | 2.60 | 3.20 | 3.50 |
| Height | mm | 1850 | 1850 | 2690 | 2690 |
| Thickness | mm | 100 | 100 | 100 | 100 |

| Accessories for floor | mounted | cylinders, | pressure-tested |
|-----------------------|---------|------------|-----------------|
| Thermal insulation | | | |

DHW heat pumps Application areas



DHW cylinders and DHW heat pumps

DHW heat pumps

DHW heat pumps

Compact design

SHP-A 220/300 (X) PLUS



SHP-A 220 Plus

Benefits

- > Fully wired compact series for recirculation air mode
- > Efficient and hygienic DHW heating and high mixed water volumes due to Max. DHW temperature with heat pump 65 °C
- > Categorised in the highest possible energy efficiency class for water heaters
- Permanently high efficiency and safety across the entire service life of the appliance, due to spring-loaded rollbond heat exchanger
- > Reduced operating costs via intelligent interface to increase consumption of on-site photovoltaic energy
- > Highly reliable and cost saving due to the impressed current anode integrated as standard
- > Display of the currently available mixed water volume via the LCD
- > Very quiet operation due to sound-insulated compressor and positioning away from the air flow
- "X" version thanks to additional smooth tube indirect coil can be combined with a solar thermal system or an oil, gas or solid fuel boiler (incl. 2 sensor wells giving a choice of heat generator integration) (Product: 238635)

Application • The DHW heat pump for recirculation air mode supplies DHW efficiently to multiple draw-off points. It takes up only minimal space, thanks to its compact design. • It utilises the waste heat from other appliances in the installation room (e.g. freezer, tumble dryer, heating system) to increase the energy efficiency of the whole system.

Comfort • A very high degree of DHW convenience is assured due to demanding draw-off profiles. • High temperatures are possible in heat pump-only mode, for efficient and hygienic DHW heating. • User friendly operation thanks to the electronic controller with LCD, which conveniently displays the currently available mixed water volume. • The compressor is sound-insulated from the air stream for very quiet operation. • The integral impressed current anode reduces costs and increases safety. The spring-loaded roll bond heat exchanger ensures maximum safety and efficient operation over the entire service life of the appliance.

Possible combinations • The intelligent interface integrated as standard allows communication with suitable photovoltaic systems. This helps to increase on-site consumption of self-generated solar power. • The X version with integral smooth tube indirect coil and 300 litre capacity allows combination with solar thermal systems and oil, gas or solid fuel boilers.

Efficiency • The system works highly efficiently, with all appliances in the range rated in what is currently the highest possible energy efficiency class.





238633

| | | SHP-A 220 Plus | SHP-A 300 Plus | SHP-A 300 X Plus |
|--|----|----------------|----------------|------------------|
| Part number | | 238633 | 238634 | 238635 |
| Specification | | | | |
| Energy efficiency class | | A+ | A+ | A+ |
| Energy efficiency class, DHW heating (indoor air), load profile L | | A+ | | |
| Energy efficiency class, DHW heating (indoor air), load pro- file XL | | | A+ | A+ |
| Average heating output (A15 / W10-55) | kW | 1,6 | 1,6 | 1,6 |
| Average heating output (A7 / W10-55) | kW | 1,3 | 1,3 | 1,3 |
| COP (EN 16147 / A20) | | 3,55 | 3,51 | 3,51 |
| COP (EN 16147 / A7) | | 2,68 | 2,79 | 2,75 |
| Rated heating output Prated (EN 16147 / A20) | kW | 1.60 | 1.52 | 1.43 |
| Power consumption, standby period (EN 16147 / A20) | kW | 0,022 | 0,024 | 0,028 |
| Nominal load profile (EN 16147) | | L | XL | XL |
| Nominal DHW temperature (EN 16147) | °C | 55 | 55 | 55 |
| Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20) | I | 278 | 395 | 371 |

DHW heat pumps

Compact design

| | | SHP-A 220 Plus | SHP-A 300 Plus | SHP-A 300 X Plus |
|---|-------|----------------------------------|----------------------------------|----------------------------------|
| Heat-up time (EN 16147 / A20) | h | 6,06 | 9,05 | 9,05 |
| Average sound pressure level at 1 m distance, free field | dB(A) | 45 | 45 | 45 |
| Sound power level (EN 12102) | dB(A) | 60 | 60 | 60 |
| Min./max. application limits, heat source for heat pump operation | °C | +6/+42 | +6/+42 | +6/+42 |
| Min./max. application limits for heat source | °C | +6/+42 | +6/+42 | +6/+42 |
| Max. DHW temperature with heat pump | °C | 65 | 65 | 65 |
| Height x diameter | mm | 1501 x 690 | 1905 x 690 | 1905 x 690 |
| Weight | kg | 120 | 135 | 156 |
| Power supply | | 1/N/PE 220-240 V 50/60 Hz | 1/N/PE 220-240 V 50/60 Hz | 1/N/PE 220-240 V 50/60 Hz |
| Auxiliary heater power consumption | kW | 1.50 | 1.50 | 1.50 |
| Nominal capacity | 1 | 220 | 302 | 291 |
| Max. mixed water volume 40 °C | 1 | 330 | 465 | 440 |
| Surface area, heat exchanger | | | | 1.30 |
| Required accessories | | | | |
| Part number | | 074370 | 074370 | 074370 |
| Туре | | ZH 1 | ZH 1 | ZH 1 |
| Description | | Safety assembly, pressure-tested | Safety assembly, pressure-tested | Safety assembly, pressure-tested |

Energy efficiency class in accordance with EU Regulation no. 812/2013Nominal data to EN 16147 - A15 = heat source recirculation air / A7 = heat source recirculation airRated data to EN 16147 - heat pump for recirculated airEnergy efficiency class in accordance with EU Regulation no. 812/2013, rating from September 2017. Highest possible energy rating A until September 2017. (Product: 238633)Rated data to EN 16147 - heat pump for recirculated air

Energy efficiency class in accordance with EU Regulation no. 812/2013, rating from September 2017. Highest possible energy rating A until September 2017. Nominal data to EN 16147 - A15 = heat source recirculation air / A7 = heat source recirculation air Rated data to EN 16147 - heat pump for recirculated air (Product: 238634)Rated data to EN 16147 - heat pump for recirculated air Nominal data to EN 16147 - A15 = heat source recirculation air / A7 = heat source recirculation air (Product: 238635)

DHW heat pumps

Compact design

SHP-F 220/300 (X) PREMIUM



SHP-F 220 Premium

Benefits

- > Fully wired compact series for recirculation air operation or air duct/outdoor air operation
- > Hygienic DHW heating and very high mixed water volumes with up to 65 °C in pure heat pump operation
- > Categorised in the highest possible energy efficiency class for water heaters
- > Maximum flexibility regarding positioning and installation in the room, with air routing optionally to the side and/or from above
- Permanently high efficiency and safety across the entire service life of the appliance, due to spring-loaded rollbond heat exchanger
- > Reduced operating costs via intelligent interface to increase consumption of on-site photovoltaic energy
- > Highly reliable and cost saving due to the impressed current anode integrated as standard
-) Display of the currently available mixed water volume via the LCD
- > Very quiet operation due to sound-insulated compressor and positioning away from the air flow
- "X" version thanks to additional smooth tube indirect coil can be combined with a solar thermal system or an oil, gas or solid fuel boiler (incl. 2 sensor wells giving a choice of heat generator integration) (Product: 238632)

Application • The compact DHW heat pump supplies DHW efficiently to multiple draw-off points. • The appliance is suitable for recirculation air and air duct operation even at low supply air temperatures. • Highly flexible positioning, because the air duct can be connected on the side or at the top (accessory required).

Convenience features • The demanding draw-off profiles ensure very high DHW convenience. High temperatures are possible in heat pump-only mode, for efficient and hygienic DHW heating. • High operating convenience. The electronic controller is equipped with an LCD, which displays the currently available mixed water volume. • Quiet operation thanks to compressor being sound-insulated from the air stream. • Reliable and cost saving due to the factory-fitted integral impressed current anode.

Combination options • An intelligent interface for communication with suitable photovoltaic systems is integrated as standard and supports increased on-site consumption. • The 300 litre version is also available as a X version with integral smooth tube indirect coil, which allows the appliance to be combined with solar thermal systems and oil, gas or solid fuel boilers.

Efficiency • All appliances are noted for their high quality, reliable equipment and for their energy rating in what is currently the highest possible energy efficiency class. The spring-loaded roll bond heat exchanger also plays a role in this, ensuring safety and efficiency over the entire service life of the appliance.





| | | SHP-F 220 Premium | SHP-F 300 Premium | SHP-F 300 X Premium |
|--|----|-------------------|-------------------|-------------------------|
| Part number | | 238630 | 238631 | 238632 |
| | | | | |
| Specification | | | | |
| Energy efficiency class | | A+ | A+ | A+ |
| Energy efficiency class, DHW heating (outdoor air), load profile L | | A+ | | |
| Energy efficiency class, DHW heating (outdoor air), load profile XL | | | A+ | A+ |
| Energy efficiency class, DHW heating (indoor air), load profile L | | A+ | | |
| Energy efficiency class, DHW heating (indoor air), load pro- file XL | | | A+ | A+ |
| Average heating output (A20 / W10-55) | kW | 1,8 | 1,8 | 1,8 |
| Average heating output (A7 / W10-55) | kW | 1,3 | 1,3 | 1,3 |
| COP (EN 16147 / A20) | | 3,28 | 3,75 | 3,75 |
| COP (EN 16147 / A7) | | 3,07 | 3,22 | 2,99 |
| Rated heating output Prated (EN 16147 / A20) | kW | 1.51 | 1.67 | 1.67 |
| Rated heating output Prated (EN 16147 / A7) | kW | 1.08 | 1.30 | 1.12 |
| Nominal load profile (EN 16147) | | L | XL | XL |
| | | | | Continue on next page > |

Continue on next page >

DHW heat pumps Compact design

| | | SHP-F 220 Premium | SHP-F 300 Premium | SHP-F 300 X Premium |
|---|-------|----------------------------------|----------------------------------|----------------------------------|
| Nominal DHW temperature (EN 16147) | °C | 55 | 55 | 55 |
| Maximum available nominal amount of DHW at 40 °C (EN 16147 / A20) | I | 284 | 422 | 399 |
| Maximum available nominal amount of DHW at 40 °C (EN 16147 / A7) | I | 267 | 422 | 394 |
| Average indoor sound pressure level at 1 m distance, free field with 4 m air duct | dB(A) | 37 | 37 | 37 |
| Average indoor sound pressure level at 1 m distance, free field, without air duct | dB(A) | 45 | 45 | 45 |
| Indoor sound power level with 4 m air duct (EN 12102) | dB(A) | 52 | 52 | 52 |
| Indoor sound power level with- out air duct (EN 12102) | dB(A) | 60 | 60 | 60 |
| Min./max. application limits, heat source for heat pump operation | °C | -8/+42 | -8/+42 | -8/+42 |
| Min./max. application limits for heat source | °C | -8/+42 | -8/+42 | -8/+42 |
| Max. DHW temperature with heat pump | °C | 65 | 65 | 65 |
| Height x diameter | mm | 1501 x 690 | 1905 x 690 | 1905 x 690 |
| Power supply | | 1/N/PE ~ 230 V 50Hz | 1/N/PE ~ 230 V 50Hz | 1/N/PE ~ 230 V 50Hz |
| Auxiliary heater power consumption | kW | 1.50 | 1.50 | 1.50 |
| Nominal capacity | - 1 | 220 | 302 | 291 |
| Max. mixed water volume 40 °C | 1 | 330 | 465 | 440 |
| Surface area, heat exchanger | | | | 1.30 |
| Available external pressure | Pa | 120 | 120 | 120 |
| Max. air duct length at 160/200 mm diameter (including 3x 90° bends) | m | 20/40 | 20/40 | 20/40 |
| Required accessories | | | | |
| Part number | | 074370 | 074370 | 074370 |
| Туре | | ZH 1 | ZH 1 | ZH 1 |
| Description | | Safety assembly, pressure-tested | Safety assembly, pressure-tested | Safety assembly, pressure-tested |
| Recommended accessories | | | | |
| Part number | | 159320 | 159320 | 159320 |
| Туре | | LWF N 160 | LWF N 160 | LWF N 160 |
| Description | | Plug-in connector | Plug-in connector | Plug-in connector |
| Part number | | 234505 | 234505 | 234505 |
| Туре | | AWG 160 R | AWG 160 R | AWG 160 R |
| Description | | Wall outlet | Wall outlet | Wall outlet |
| Part number | | 236899 | 236899 | 236899 |
| Туре | | LUS 221/301 | LUS 221/301 | LUS 221/301 |
| Description | | Air diverter hood set | Air diverter hood set | Air diverter hood set |

Energy efficiency class in accordance with EU Regulation no. 812/2013Energy efficiency class in accordance with EU Regulation no. 812/2013, rating from September 2017. Highest possible energy rating A until September 2017. Nominal data to EN 16147 - A15 = heat source, recirculation air / A7 = heat source, outdoor air (indoor installation) (Product: 238630, 238631, 238632)

Installation accessories

ZH1



Benefit

-) Maximum safety evidenced by DVGW certification mark
- > Long service life and reliability thanks to the use of high quality components

Application • Safety assembly for pressurised floor mounted electric and combi cylinders. • Standard delivery includes a shut-off valve, non-return valve with test facility, pressure gauge connection, diaphragm safety valve and drain outlet. • A pipe break is integrated into the drain outlet of the safety valve, which prevents the waste water being sucked back. • With its threaded connection, the safety valve can be rotated, repositioned or replaced to match it to different installation situations. • The safety assembly enables angled or straight-through installation in horizontal and vertical pipework. • In vertical pipework, install the safety assembly only in a bottom to top flow direction. A pressure reducing valve can be retrofitted if required.

ZH 1

| | | Z |
|--------------------------------|-----|----------------|
| Part number | | 0743 |
| | | |
| Specification | | |
| Safety valve response pressure | MPa | 0. |
| Pressure reducing valve | | |
| Drip water connection | | |
| Water connection | | G 1 |
| Installation type | | Surface mounte |
| Safety valve | bar | |

RGC



Benefits

- > For matching to individual usage scenarios
- > High DHW convenience thanks to powerful heating elements
- > Variable temperature setting via rotary selector

Application • Threaded immersion heater for sealed unvented heating systems and DHW heating systems.

Convenience features • Variable temperature selection and temperature limiting possible.

 $\textbf{Safety and quality} \bullet \textbf{Integral temperature controller with high limit safety cut-out.}$

BGC 6 kW 500 mm ET

| | | BGC 6 kW 500 mm ET | BGC/45 | BGC 2/60 |
|------------------------|----|--------------------|--------------------|--------------------|
| Part number | | 003769 | 075115 | 232030 |
| Specification | | | | |
| Connected load ~ 230 V | kW | 2-5,7 | 2-5,7 | 2-5,7 |
| Connected load ~ 400 V | kW | 6 | 6 | 6 |
| Power supply | | 1/N/PE, 2/PE, 3/PE | 1/N/PE, 2/PE, 3/PE | 1/N/PE, 2/PE, 3/PE |
| Rated voltage | V | 230/400 | 230/400 | 230/400 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Version | | Universal flange | Universal flange | Universal flange |
| IP rating | | IP 44 | IP 44 | IP 44 |
| Immersion depth | mm | 500 | 455 | 480 |

DHW heat pump accessories

Installation accessories

AWG



Benefit

> Highly convenient thanks to extremely quiet weather grille with very low pressure drop

Application • Sound insulating wall outlet made from EPS, for connecting the air duct.

Convenience features • The weather grille made from painted sheet steel in silver grey has a drip edge for reliable prevention of run marks on the external wall.

Installation • If outdoor air is used as a heat source, no additional thermal insulation measures are needed for the pipe. This allows very straightforward installation with small dimensions.

AWG 160 R

| | | AWG 160 |
|---|------|----------------------------------|
| Part number | | 23450 |
| | | |
| Specification | | |
| Max. air flow rate | m³/h | 35 |
| Width of surround for weather grille | mm | 22 |
| Connection diameter | mm | 16 |
| Outer pipe diameter | mm | 200 |
| Pipe length | mm | 54: |
| Weight | kg | 0.50 |
| Wall outlet material | | EPS (grey |
| Weather grille material | | Painted sheet steel (silver grey |
| Condensation limit at: temper- ature inside pipe / temperature around the pipe / relative hu- midity around the pipe | | -20 °C / 20 °C / 60 % |

LUS



Benefits

> Maximum flexibility thanks to horizontal or vertical air routing

Air diverter kit, which can be used to switch the factory-fitted horizontal air routing on Stiebel Eltron DHW heat pumps to vertical. This increases flexibility for installation in the installation room by allowing a choice between vertical or horizontal air routing, depending on the position.

LUS 221/301

| | LUS 221/301 |
|---------------|-------------|
| Part number | 236899 |
| | |
| Specification | |
| Connection | DN 160 |
| Diameter | 160 mm |

Domestic hot water

Water pumps and filters

| Water filter | | | 162 |
|--------------|--|--|-----|
| | | | |
| | | | |
| | | | |
| | | | |

Water pumps and filters Water filter

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| | |

Filter cartridges

4 in 1 filter cartridge

Benefits

- > 4 stages in 1 compact encapsulated filters for easier filter replacement (Product: 203737)
- > Large carbon layers for great tasting filtered water (Product: 203737)
- > Coral sandstone provides a natural source of calcium in filtered water (Product: 203737)
- > Hygienic encapsulated cartridge
- > Easy filter replacement, no tools needed (Product: 203737)
- > Hygienic encapsulated cartridge (Product: 203737)

Application • 4-in-1 filter cartridge used with Rain and Rain Plus drinking water filters.

Convenience features • This filter medium is made from polypropylene, coconut carbon, bamboo carbon and coral sandstone, and demonstrates an outstanding performance in pre-filter filtration stages. • The large activated carbon volume reduces herbicides, pesticides and turbidity, adsorbs chlorine, VOCs and TTHMs, and is also able to remove heavy metals such as lead and mercury. • "Bamboo and coconut" carbon has excellent absorption properties to reduce unpleasant tastes, odours, herbicides and pesticides, and adsorb chlorine for cleaner and better tasting filtered water. • Coral sandstone slightly improves the pH value of the filtered water.

Replacement • "Twist" system; no tools required.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter • 4 stages of carefully selected filter media are combined in one single filter cartridge.

- 1. Granular activated carbon. Improves the taste of filtered drinking water
- 2. Coral sandstone. Coral sandstone provides a natural source of calcium for the body and slightly improves the pH value of the filtered water for a better taste and health benefit
- 3. Pre-filter, 10 µm: Removes rust, sand, soil and impurities larger than 5 microns to protect other filtration stages
- 4. Activated carbon block, 1 μ m. Reduces residual chlorine, VOCs, THMs, herbicides & pesticides, unpleasant tastes and odours.

| | 4 IN 1 CARTRIDGE (EG) |
|-------------|-----------------------|
| Part number | 203737 |

Filter cartridges

2 in 1 filter cartridge

Benefits

-) 2 stages in 1 cartridge for easier filter replacement (Product: 203738)
- An ultrafiltration hollow fibre membrane with a pore size down to 0.01 microns provides bacteria-free drinking water instantly, with no electricity required
- > Antibacterial silver ions provide double protection of the water filter
- > Large carbon layers for great tasting filtered water
- > Hygienic encapsulated cartridge
- > Easy filter replacement, no tools needed
- Ultrafiltration hollow fiber membrane with a pore size down to 0.01 micron provides instant bacteria free drinking water, no electricity needed. (Product: 203738)
- Antibacterial silver ions for double protection for the water filter (Product: 203738)
- > Large carbon layers for filtered water with good taste (Product: 203738)
- > Hygienic encapsulated cartridge (Product: 203738)
- > Easy filter replacement, no tool needed (Product: 203738)

Application • 2-in-1 filter cartridge used with Rain and Rain Plus drinking water filters.

Convenience features • 7 stages of filter media are combined in one single filter cartridge. This ensures exceptionally clean and safe filtration performance. • An ultrafiltration hollow fibre membrane with a pore size down to 0.01 microns provides bacteria-free drinking water instantly, with no electricity required. • Silverlite stone increases the safety of the whole filter system. It contains silver ions and several minerals to prevent the growth of bacteria inside the filter system and contamination from outside the filter.

Replacement• "Twist" system; no tools required.

Safety & Quality • The 7-in-1 filter cartridge is certified as safe for drinking water by NSF International and complies with NSF Standards 42 and 53 for the reduction of unpleasant tastes/odours, chlorine, turbidity, nominal particulate Class I and VOCs.

Filter • 2 stages of carefully selected filter media are combined in one single filter cartridge.

- 1. Antibacterial granular activated carbon. Improves the taste of the water by reducing chlorine, VOCs and TTHMs. Silver ions added to the carbon prevent the growth of filtered bacteria inside the filter.
- 2. Ultrafiltration membrane, 0.01-0.1 µm. A microporous hollow fibre membrane works as an efficient filter to remove bacteria, some viruses and particles down to 0.01 microns

| | EXCHANGE FILTER 2 IN 1 (EG) |
|-------------|-----------------------------|
| Part number | 203738 |

Filter cartridges

DS sediment GAC cartridge

Benefits

- > Durable PP surface with 5 micron pore size for efficient pre-filter removal functions
- > Carbon powder improves the taste of the water
- > Antibacterial silver ions provide double protection of the water filter
- > Hygienic encapsulated cartridge
- > "Push & click" system for easy filter replacement
- > Durable PP surface with 5 micron pore size for efficient prefilter removal functions (Product: 203740)
- > Carbon powder coated improves the taste of water (Product: 203740)
- > Antibacterial silver ions for double protection for the water filter (Product: 203740)
- > Hygienic encapsulated cartridge (Product: 203740)
- "Push and Click system" for easy filter replacement (Product: 203740)

Application • 2 stages in 1 filter cartridge used with the Nature drinking water filter.

Convenience features • This filter medium is made from durable polypropylene and granular carbon powder, and delivers outstanding filtration performance.

Replacement • The "push & click" function makes filter replacement as simple as pushing a button and changing the cartridge. • A "click" sound signals that the filter has been inserted properly into the adaptor.

Safety • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter • 2 stages of carefully selected filter media are combined in one single filter cartridge.

- 1. Polypropylene, 5 µm: Reduces silt, rust, sediment and larger particles.
- 2. Pre-carbon filter: Improves the taste of the water

| | DUAL SEDIMENT GAC FILTER CARTRIDGE 8(EG) |
|-------------|--|
| Part number | 203740 |

Filter cartridges

ACB WITH AG & HEAVY METAL REMOVAL 8

Benefits

- > Large carbon surface area for efficient particle removal
- > Heavy metal removal agents actively reduce heavy metals in the inlet water (Product: 203739)
- > Antibacterial silver ions provide double protection of the water filter
- > Strict quality control in both temperature and material ensures optimum performance of the carbon block
- > Hygienic encapsulated cartridge
-) "Push & click" system for easy filter replacement
- > Large carbon surface for efficient removal functions (Product: 203739)
- > Antibacterial silver ions for double protection for the water filter (Product: 203739)
- > Strict quality control in both temperature and material ensures the best performance of the carbon block (Product: 203739)
- > Hygienic encapsulated cartridge (Product: 203739)
- > "Push and Click system" for easy filter replacement (Product: 203739)

Application • Third stage filter cartridge used with Nature drinking water filters.

Convenience features • This filter medium is made from coconut shells with the addition of silver ions and anti-heavy metal agents, and delivers outstanding filtration performance. • The activated carbon reduces herbicides, pesticides and turbidity, adsorbs chlorine, VOCs and TTHMs, and is also able to actively remove heavy metals such as lead and mercury.

Replacement • The "push & click" function makes filter replacement as simple as pushing a button and changing the cartridge. A "click" sound signals that the filter has been inserted properly into the adaptor.

Safety • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter • Activated carbon block with silver ions and heavy metal removal agents, 0.5 µm. • Reduces unpleasant tastes and odours, chlorine, trihalomethanes and VOCs. • Added anti-heavy metal agents boost the reduction of lead, copper, aluminium, selenium, zinc and iron. • Silver ions added to the carbon prevent the growth of bacteria inside the filter.

| | ACB W. AG & HEAVY METAL REMOVAL 8" (EG) |
|-------------|---|
| Part number | 203739 |

Filter cartridges

Sediment 13"



Sediment Filter 13" (EX)

Benefits

- > Durable PP surface with 1 micron pore size for efficient pre-filter removal functions
- > Hygienic encapsulated cartridge
-) "Push & click" system for easy filter replacement
- > Durable PP surface with 1 micron pore size for efficient prefilter removal functions (Product: 230875)
- > Hygienic encapsulated cartridge (Product: 230875)
- "Push and Click system" for easy filter replacement (Product: 230875)

Application • First stage sediment filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • The filter medium is made from durable polypropylene with a large surface area for outstanding filtration performance.

Replacement• The "push & click" function makes filter replacement as simple as pushing a button and changing the cartridge. A "click" sound signals that the filter has been inserted properly into the adaptor.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter• Polypropylene, 1 µm. Reduces silt, rust, sediment and larger particles.

| | Sediment Filter 13" (EX) |
|-------------|--------------------------|
| Part number | 230875 |

Filter cartridges

Activated carbon block 13"



Activated carbon block 13" (EX)

Benefits

- > Large carbon surface area for efficient particle removal
- > High quality carbon material for better taste and filtration performance (Product: 230877)
- > Strict quality control in both temperature and material ensures optimum performance of the carbon block
- > Hygienic encapsulated cartridge (Product: 230877)
- > "Push & click" system for easy filter replacement
- > Large carbon surface for efficient removal functions (Product: 230877)
- > Strict quality control in both temperature and material ensures the best performance of the carbon block (Product: 230877)
-) "Push and Click system" for easy filter replacement (Product: 230877)

Application • Second stage sediment filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • This filter medium is made from coconut shells and delivers outstanding filtration performance. • The activated carbon reduces herbicides, pesticides and turbidity, adsorbs chlorine, VOCs and TTHMs, and is also able to remove heavy metals such as lead and mercury.

Replacement • The "push & click" function makes filter replacement as simple as pushing a button and changing the cartridge. A "click" sound signals that the filter has been inserted properly into the adaptor.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter• Activated carbon block, 0.5 µm. • Reduces unpleasant tastes and odours, chlorine, trihalomethanes, VOCs and heavy metals (lead, copper, aluminium, selenium, zinc, iron).

| | Activated carbon block 13" (EX) |
|-------------|---------------------------------|
| Part number | 230877 |

Filter cartridges

Ultrafiltration 13"



Ultrafiltration 13" (EX)

Benefits

- High quality ultrafiltration with hollow fibre membrane for 100 % bacterial removal with no water wastage and no electricity
- > Hygienic encapsulated cartridge
-) "Push & click" system for easy filter replacement
- High quality Ultra-filtration from hollow fiber membrane for 100% bacterial removal and no waste water, no electricity needed (Product: 230879)
- > Hygienic encapsulated cartridge (Product: 230879)
-) "Push and Click system" for easy filter replacement (Product: 230879)

Application • Third stage filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • Ultrafiltration (UF) membrane with microporous hollow fibre structure works as an efficient filter to remove 100 % of bacteria, particles down to 0.01 microns and some viruses.

Replacement • The "push & click" function makes filter replacement as simple as pushing a button and changing the cartridge. A "click" sound signals that the filter has been inserted properly into the adaptor.

Safety & Quality • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter • Ultrafiltration hollow fibre, 0.01 – 0.1 μ m. • 100 % bacteria removal. • Removes cysts, bacteria, some viruses and algae.

| | Ultrafiltration 13" (EX) |
|-------------|--------------------------|
| Part number | 230879 |

Replacement cartridge for Stream range

APPLICATION: Third stage filter cartridge used with Stream and Stream 5S drinking water filters.

EQUIPMENT & COMFORT: Ultrafiltration (UF) membrane with micro-porous structure hollow fiber works as an efficient filter to remove 100% bacteria and particles down to 0.01 micron and partly virus.

REPLACEMENT: The "Push & Click" function makes the filter exchange very easy and simple by only pushing the button and changing the filter cartridge. A "Click" sound will signal that the filter is inserted properly into the adapter.

SAFETY & QUALITY: The filter is encapsulated inside the cartridge which offers protection from contaminations from the outside, for example during filter replacement and cleaning. FILTER: Ultrafiltration hollow fiber, 0.01 – 0.1 µm. 100% bacteria reduction. Removes cysts, bacteria, partly virus and algae. (Product: 230879)

Filter cartridges

SILVER GAC & MINERAL BALLS 13"



SILVER GAC & MINERAL BALLS 13" (EX)

Benefits

- > A large volume of high grade carbon powder improves the taste of the water in the last stage
- › Antibacterial silver ions provide double protection of the water filter
- > Hygienic encapsulated cartridge
-) "Push & click" system for easy filter replacement
- > High grade and large quantity carbon powder improves the taste of water in the last stage (Product: 239935, 203745)
- Antibacterial silver ions for double protection for the water filter (Product: 239935, 203745)
- > Hygienic encapsulated cartridge (Product: 239935, 203745)
-) "Push and Click system" for easy filter replacement (Product: 239935, 203745)

Application • Fourth stage filter cartridge used with Stream and Stream 5S drinking water filters.

Convenience features • This filter medium is made from coconut shells and delivers outstanding filtration performance. • Antibacterial carbon powder prevents harmful contaminants from entering and keeps the filter cartridge constantly fresh. • Oxidation Reduction Potential (ORP) mineral ceramic balls slightly reduce the ORP value, which antioxidises the water to increase our natural metabolism.

Replacement • The "push & click" function makes filter replacement as simple as pushing a button and changing the cartridge. A "click" sound signals that the filter has been inserted properly into the adaptor.

Safety • The filter is encapsulated inside the cartridge which provides protection against contamination from the outside, for example during filter replacement and cleaning.

Filter• 2 stages of carefully selected filter media are combined in one single filter cartridge.

- 1. ORP mineral balls. Reduce the ORP content of tap water
- 2. Post-carbon filter with silver ions. Improves the taste of the water; silver ions added to the carbon prevent the growth of bacteria inside the filter.

| | SILVER GAC & MINERAL BALLS 13" (EX) | SILVER GAC & MINERAL BALLS 13" (EG) |
|-------------|-------------------------------------|-------------------------------------|
| Part number | 239935 | 203745 |

Filter cartridges

Stiebel House ACB cartridge

Benefits

- > Improves water quality by removing contaminants (Product: 203743)
- > Improves water taste and odour by reducing chlorine, heavy metals and bacteria (Product: 203743)
- > Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings
- Antibacterial silver ions provide double protection of the water filter (Product: 203743)
- > Suitable for use with various water sources (Product: 203743)
- Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings. (Product: 203743)
-) Improves water by quality removing contaminants (Product: 239934)
-) Improves water taste & odor by reducing chlorines, heavy metals, bacteria (Product: 239934)
- Indirectly improves the water flow because of less-clogging and less maintenance needed for sanitary accessories. (Product: 239934)
- Antibacterial silver ions for double protection for the water filter (Product: 239934)
- > Suitable for use with various water sources (Product: 239934)

Application • 3-stage filter cartridge used with the Stiebel House ACB-2.

Convenience features • The filter medium is made from coconut shells and silver ions. It improves the water quality and taste by reducing dirt particles, chlorine, heavy metals and some bacteria. • Delivers cleaner and safer drinking water with reduced odours. • Reduces allergies caused by chlorine and its harmful compounds for healthier fresh water usage. • Less clogging of point-of-use filters and sanitary fittings (shower units, tap outlets, etc.). • Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings. • Silverlite stone increases the safety of the whole filter system. It contains silver ions to prevent the growth of bacteria inside the filter system.

Installation • The Stiebel House ACB-2 filter cartridge can be changed conveniently using the wrench that was supplied with the original purchase.

Safety • The Stiebel House ACB-2 is tested by SGS

Filter • 2 stages of carefully selected filter media.

- 1. Activated carbon block, 5 µm: Reduces dirt particles, chlorine, heavy metals and some bacteria to give clearer, cleaner and safer outlet water.
- 2. Silverlite stone: Silver ions prevent the growth of bacteria inside the filter system

| | Stiebel House ACB cartridge (EG) | Stiebel House ACB cartridge (EX) |
|-------------|----------------------------------|----------------------------------|
| Part number | 203743 | 239934 |

Filter cartridges

Stiebel House PS cartridge

Benefits

- > Improves water quality by removing contaminants (Product: 203742)
- > Durable and porous pleated filter media (Product: 239933)
- > Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings
- > Reduces limescale deposits with anti-limescale balls, for gleaming sanitary fittings
- > Silverlite stone increases the safety of the whole filter system (Product: 203742)
- > Suitable for use with various water sources
- > Durable and porous pleated filter media (Product: 203742)
- Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings. (Product: 203742)
- > Reduces limescale deposits with anti-limescale balls, for gleaming sanitary fittings (Product: 203742)
- > Suitable for use with various water sources (Product: 203742)
- > Improves water by quality removing contaminants (Product: 239933)
- Indirectly improves the water flow because of less-clogging and less maintenance needed for sanitary accessories. (Product: 239933)
- > Reduces limescale deposit with anti-limescale balls for shining sanitary accessories (Product: 239933)
- > Silverlite stone increases the safeness of the whole filter system (Product: 239933)
- > Suitable for use with various water sources (Product: 239933)

Application • 3-stage filter cartridge used with the Stiebel House PS-2.

Convenience features • The cartridge consists of durable pleated polypropylene with a large surface area, with Silver-lite stone and anti-limescale balls for outstanding filtration performance. • Improves the water quality by removing dirt and contaminants (sand, soil, algae, etc.) from the inlet water with extra large, tightly pleated and durable filter media. • Less clogging of point-of-use filters and sanitary fittings (shower units, tap outlets, etc.). • Indirectly improves the water flow as less clogging occurs, therefore less maintenance is needed for sanitary fittings. • The growth of bacteria in the filter system is prevented thanks to silver ions. • Reduces limescale deposits with anti-limescale balls, for gleaming sanitary fittings and kitchenware. • Silverlite stone increases the safety of the whole filter system. It contains silver ions and several minerals to prevent the growth of bacteria inside the filter system and contamination from outside the filter.

Installation • The Stiebel House PS-2 filter cartridge can be changed conveniently using the wrench that comes with the original purchase.

Safety • The anti-limescale filter media are certified as safe for drinking water by NSF International with NSF Mark 60 for material safety.

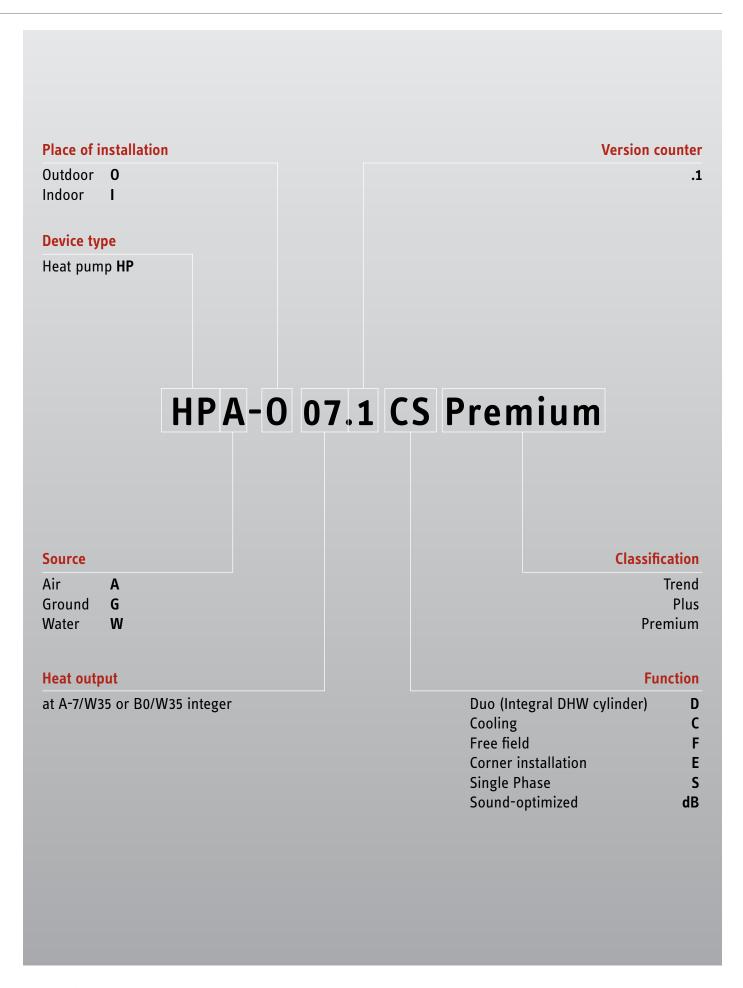
Filter • 3 stages of carefully selected filter media.

- 1. Polypropylene pleated sediment, range 1 10 µm: Reduces silt, rust, sediment and particles larger than its pore size.
- 2. Silverlite stone: The insoluble Silverlite stone consists of CaO, SiO2, AlO3, MgO and MnO, and is coated with silver ions. It has a strong antibacterial effect and prohibits germs from entering the filter media.
- 3. Anti-limescale balls: Reduce limescale deposits in the inlet water

| | Stiebel House PS cartridge (EG) | Stiebel House PS cartridge (EX) |
|-------------|---------------------------------|---------------------------------|
| Part number | 203742 | 239933 |

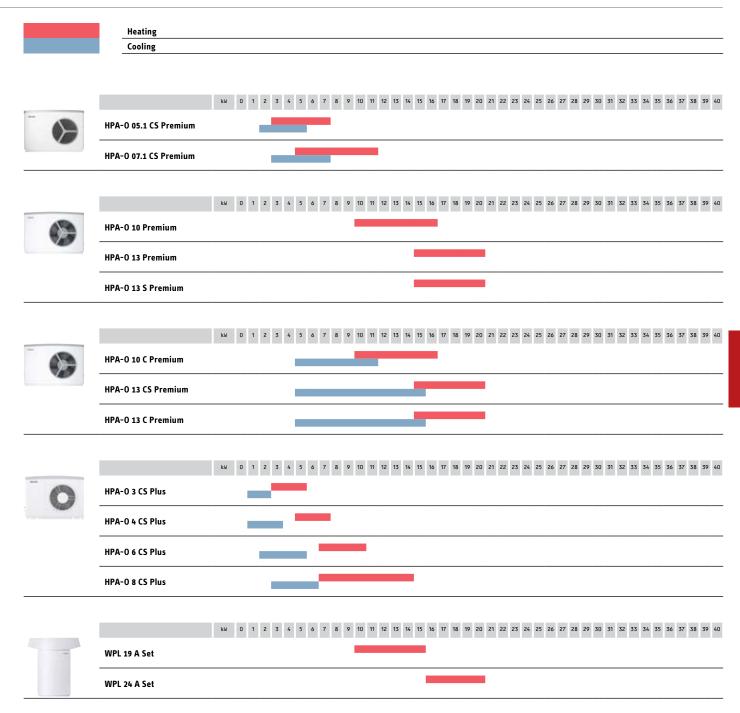
Heat pumps Air source heat pumps

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Air source heat pumps, outdoor installation - inverter

Application areas



Air source heat pumps, outdoor installation – inverter

| verter | |
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Inverter

HPA-0 CS Premium



HPA-0 05.1 CS Premium

Benefits

- The air source heat pump for heating and cooling is installed outdoors
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Suitable for energy modernisation projects, as the 75 °C flow temperature allows for high DHW temperatures all year round
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- > Futureproof and eco-friendly refrigerant with high efficiency
- > Suitable for installation in walls and ceilings
-) High efficiency and low operating costs all year round, thanks to optimally matched components
-) Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump with output-dependent control and inverter technology is designed as a compact mono block appliance for outdoor installation. It delivers the required heating output, ensures a reliable supply of domestic hot water and can be used for efficient cooling through circuit reversal. • A flow temperature of up to 75 °C is available for heating mode and DHW heating. Protection against legionella is ensured without the need for an electric auxiliary heater. • The heat pump can also be used to heat older buildings via radiators, as a flow temperature of 55 °C can still be achieved, even when there is a heavy frost (-25 °C outside temperature).

Convenience features • Very quiet operation due to encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fans and the wide gaps between the evaporator fins which reduce air resistance. • High DHW temperatures are assured without the need for electric backup, even in the winter; this is because the heat pump works with high flow temperatures all year round. • The system can be integrated into a home network and controlled from a mobile device. For this, the on-site heat pump manager is combined with the Internet Service Gateway (ISG). With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation possible thanks to integral emergency/auxiliary heater. • The enamelled, corrosion-protected metal casing in alpine white is made from hot-dip galvanised, powder coated sheet steel. Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic in aluminium white.

Efficiency • The refrigerant circuit works with the eco-friendly, futureproof refrigerant R454C. When combined with the optimally matched components, highly efficient operation is possible all year round. This efficiency is helped by demand-dependent defrosting via circuit reversal and the heating of the condensate pan via the refrigerant circuit.

• The hydrophilic coating of the fan nozzle prevents ice formation, meaning that an electric heater is not required.

Installation • Integral anti-vibration mounts enable the heat pump to be connected directly to the heating system. • Simplified installation thanks to pivoting electrical connection panel. • Quick access to the condensate pan via cleaning aperture on the back of the casing.











| | | HPA-0 05.1 CS Premium | HPA-0 07.1 CS Premium |
|--|----|-----------------------|-----------------------|
| Part number | | 202666 | 202668 |
| Specification | | | |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+++ | A+++ |
| Heating output at A7/W35 (EN 14511) | kW | 3.31 | 3.31 |
| Heating output at A2/W35 (EN 14511) | kW | 3.19 | 4.30 |
| Heating output at A-7/W35 (EN 14511) | kW | 4.97 | 6.87 |
| COP at A7/W35 (EN 14511) | | 5.42 | 5.42 |
| COP at A2/W35 (EN 14511) | | 4.60 | 4.30 |

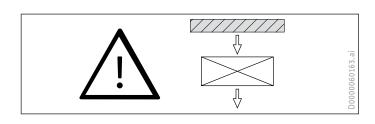
Inverter

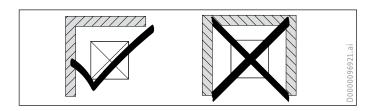
| | | HPA-0 05.1 CS Premium | HPA-0 07.1 CS Premium |
|---|-------|---|---|
| COP at A-7/W35 (EN 14511) | | 3.45 | 2.93 |
| Max. cooling capacity at A35/ W7 | kW | 4.73 | 7.30 |
| Cooling capacity at A35/W18 partial load | kW | 3.37 | 4.94 |
| Max. cooling capacity at A35/ W18 | kW | 6.86 | 10.15 |
| Max. cooling capacity factor at A35/W7 | | 2.86 | 2.35 |
| Cooling capacity factor at A35/ W18 partial load | | 4.35 | 4.28 |
| Max. cooling capacity factor at A35/W18 | | 3.84 | 2.87 |
| SCOP (EN 14825) | | 4.70 | 4.88 |
| Sound power level (EN 12102) | dB(A) | 48 | 48 |
| Min./max. application limits for heat source | °C | -25/40 | -25/40 |
| Max. application limit on the heating side | °C | 75 | 75 |
| Height | mm | 900 | 900 |
| Width | mm | 1270 | 1270 |
| Depth | mm | 593 | 593 |
| Weight | kg | 135 | 135 |
| Rated voltage, compressor | V | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 230 | 230 |
| Refrigerant | | R454C | R454C |
| Required accessories | | | |
| Part number | | 236000 | 236000 |
| Type | | WPM international | WPM international |
| Description | | Heat pump manager in wall mounted enclosure | Heat pump manager in wall mounted enclosure |
| Recommended accessories | | | |
| Part number | | 229336 | 229336 |
| Туре | | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 |
| Type | | HM Trend | HM Trend |
| Description | | Hydraulic module | Hydraulic module |
| Part number | | 232964 | 232964 |
| Туре | | SK 1 | SK 1 |
| Description | | T-support | T-support |
| Part number | | 233622 | 233622 |
| Туре | | AS-WP 1 | AS-WP 1 |
| Description | | Hydraulic connection set | Hydraulic connection set |
| Part number | | 233623 | 233623 |
| Type | | AS-WP 2 | AS-WP 2 |
| Description | | Hydraulic connection set | Hydraulic connection set |
| Part number | | 233826 | 233826 |
| Туре | | HMS Trend | HMS Trend |
| Description | | Hydraulic module | Hydraulic module |
| Part number | | 234722 | 234722 |
| Type | | WK 2 | WK 2 |
| Description | | Wall mounting bracket | Wall mounting bracket |
| DHW cylinder | | | |
| Part number | | 202926 | 202926 |
| Туре | | HSBB 180 Plus | HSBB 180 Plus |
| | | | |
| Description | | Integral cylinder | Integral cylinder |

| | HPA-0 05.1 CS Premium | HPA-0 07.1 CS Premium |
|-----------------|-------------------------------|-------------------------------|
| Part number | 202927 | 202927 |
| Туре | HSBC 180 Plus | HSBC 180 Plus |
| Description | Integral cylinder | Integral cylinder |
| Part number | 203082 | 203082 |
| Туре | HSBC 180 S Plus | HSBC 180 S Plus |
| Description | Integral cylinder | Integral cylinder |
| Part number | 203084 | 203084 |
| Туре | HSBB 180 S Plus | HSBB 180 S Plus |
| Description | Integral cylinder | Integral cylinder |
| Part number | 203801 | 203801 |
| Туре | HSBC 300 cool | HSBC 300 cool |
| Description | Integral cylinder | Integral cylinder |
| Part number | 221360 | 221360 |
| Туре | SBB 301 WP | SBB 301 WP |
| Description | DHW cylinder | DHW cylinder |
| Part number | 229980 | 229980 |
| Туре | SBS 601 W | SBS 601 W |
| Description | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | 233510 | 233510 |
| Туре | HSBC 200 | HSBC 200 |
| Description | Integral cylinder | Integral cylinder |
| Part number | 234801 | 234801 |
| Туре | HSBC 200 S | HSBC 200 S |
| Description | Integral cylinder | Integral cylinder |
| Buffer cylinder | | |
| Part number | 185458 | 185458 |
| Туре | SBP 200 E | SBP 200 E |
| Description | Buffer cylinder | Buffer cylinder |
| Part number | 203763 | 203763 |
| Туре | STH 210 Plus | STH 210 Plus |
| Description | Buffer cylinder | Buffer cylinder |
| Part number | 203764 | 203764 |
| Туре | STH 415 Plus | STH 415 Plus |
| Description | Buffer cylinder | Buffer cylinder |
| • | • | • |

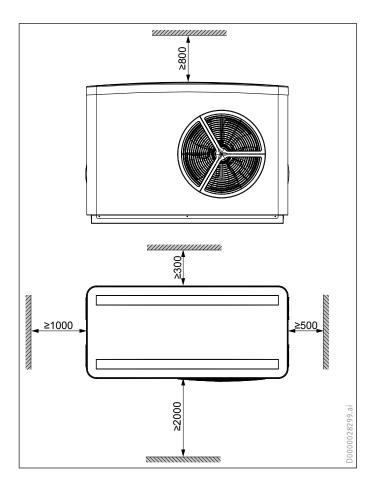
Inverter

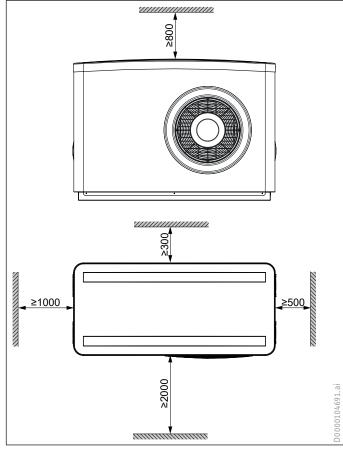
Installation conditions





Minimum clearance diagram





Inverter

HPA-0 7-13 Premium



HPA-0 10 Premium

Benefits

- > The air source heat pump for heating is installed outdoors
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Even at low outside temperatures, the enhanced (saturated) vapour injection achieves a high flow temperature
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- > High efficiency and low operating costs all year round, thanks to optimally matched components
-) Low operating costs as mono mode DHW heating is possible
- Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump with output-dependent control and inverter technology is installed outdoors. The compact mono block design is also suitable for use in modernised older buildings thanks to the demand-dependent high flow temperatures.

Convenience features • Very quiet operation due to encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fans and the wide gaps between the evaporator fins which reduce air resistance. The combined enhanced vapour injection/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, enabling a higher heating output/flow temperature to be achieved. • When combined with the Internet Service Gateway (ISG), the integral heat pump manager enables the system to be controlled in the home network or from a mobile device. With integral heat and electricity metering via refrigerant circuit data. • The emergency/auxiliary heater enables mono energetic operation. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A. • The enamelled, corrosion-protected metal casing in alpine white is made from hot-dip galvanised, powder coated sheet steel. Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic in aluminium white.

Efficiency • The waste heat from the inverter is used to raise the return temperature. In addition, demand-dependent defrosting by means of circuit reversal and the heating of the condensate pan by the refrigerant circuit increase the overall efficiency of the system. • The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required. • The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required.

Installation • Integral anti-vibration mounts for direct connection to the heating system. • The pivoting electrical connection panel makes installation easier. The condensate pan is easy to reach through a cleaning aperture on the back of the casing.









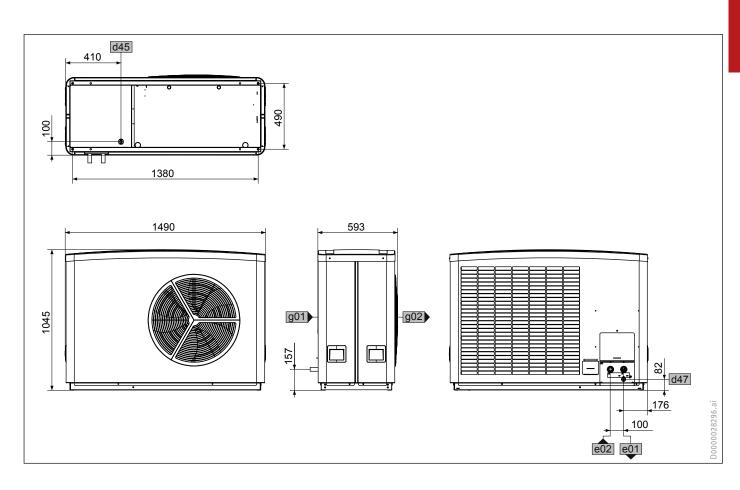
| | | HPA-0 10 Premium | HPA-0 13 Premium | HPA-0 13 S Premium |
|--|-------|------------------|------------------|--------------------|
| Part number | | 238978 | 238982 | 238980 |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 7.84 | 7.84 | 8.00 |
| Heating output at A2/W35 (EN 14511) | kW | 8.33 | 8.33 | 8.33 |
| Heating output at A-7/W35 (EN 14511) | kW | 9.54 | 12.86 | 12.86 |
| COP at A7/W35 (EN 14511) | | 5.09 | 5.09 | 4.82 |
| COP at A2/W35 (EN 14511) | | 4.14 | 4.14 | 4.14 |
| COP at A-7/W35 (EN 14511) | | 3.26 | 2.93 | 2.98 |
| SCOP (EN 14825) | | 4.70 | 4.63 | 4.39 |
| Sound power level (EN 12102) | dB(A) | 54 | 54 | 54 |

Inverter

| | | HPA-0 10 Premium | HPA-0 13 Premium | HPA-0 13 S Premium |
|--|----|---|---|---|
| Min./max. application limits for heat source | °C | -20 / 40 | -20 / 40 | -20 / 40 |
| Max. application limit on the heating side | °C | 65 | 65 | 65 |
| Height | mm | 1045 | 1045 | 1045 |
| Width | mm | 1490 | 1490 | 1490 |
| Depth | mm | 593 | 593 | 593 |
| Weight | kg | 175 | 175 | 175 |
| Rated voltage, compressor | V | 400 | 400 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 230 |
| Refrigerant | | R410A | R410A | R410A |
| Required accessories | | | | |
| Part number | | 236000 | 236000 | 236000 |
| Туре | | WPM international | WPM international | WPM international |
| Description | | Heat pump manager in wall mounted enclosure | Heat pump manager in wall mounted enclosure | Heat pump manager in wall mounted enclosure |
| Recommended accessories | | | | |
| Part number | | 229336 | 229336 | 229336 |
| Туре | | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 | 232805 |
| Туре | | HM Trend | HM Trend | HM Trend |
| Description | | Hydraulic module | Hydraulic module | Hydraulic module |
| Part number | | 232964 | 232964 | 232964 |
| Туре | | SK 1 | SK 1 | SK 1 |
| Description | | T-support | T-support | T-support |
| Part number | | 233622 | 233622 | 233622 |
| Туре | | AS-WP 1 | AS-WP 1 | AS-WP 1 |
| Description | | Hydraulic connection set | Hydraulic connection set | Hydraulic connection set |
| Part number | | 233623 | 233623 | 233623 |
| Туре | | AS-WP 2 | AS-WP 2 | AS-WP 2 |
| Description | | Hydraulic connection set | Hydraulic connection set | Hydraulic connection set |
| Part number | | 233826 | 233826 | 233826 |
| Туре | | HMS Trend | HMS Trend | HMS Trend |
| Description | | Hydraulic module | Hydraulic module | Hydraulic module |
| Part number | | 234722 | 234722 | 234722 |
| Туре | | WK 2 | WK 2 | WK 2 |
| Description | | Wall mounting bracket | Wall mounting bracket | Wall mounting bracket |
| DHW cylinder | | | | |
| Part number | | 203801 | 203801 | 203801 |
| Туре | | HSBC 300 cool | HSBC 300 cool | HSBC 300 cool |
| Description | | Integral cylinder | Integral cylinder | Integral cylinder |
| Part number | | 221360 | 221360 | 221360 |
| Туре | | SBB 301 WP | SBB 301 WP | SBB 301 WP |
| Description | | DHW cylinder | DHW cylinder | DHW cylinder |
| Part number | | 221361 | 221361 | 221361 |
| Туре | | SBB 302 WP | SBB 302 WP | SBB 302 WP |
| Description | | DHW cylinder | DHW cylinder | DHW cylinder |
| Part number | | 229981 | 229981 | 229981 |
| Туре | | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 233510 | 233510 | 233510 |
| Туре | | HSBC 200 | HSBC 200 | HSBC 200 |
| Description | | Integral cylinder | Integral cylinder | Integral cylinder |

Inverter

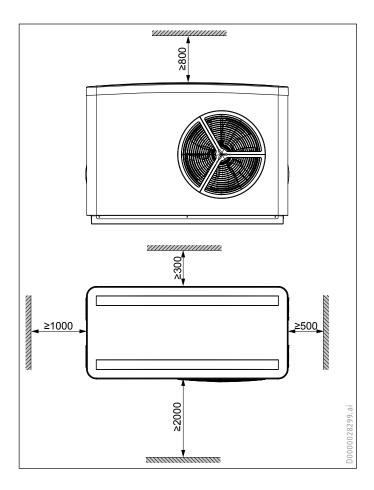
| | HPA-0 10 Premium | HPA-0 13 Premium | HPA-0 13 S Premium |
|-----------------|-------------------|-------------------|--------------------|
| Part number | 234801 | 234801 | 234801 |
| Туре | HSBC 200 S | HSBC 200 S | HSBC 200 S |
| Description | Integral cylinder | Integral cylinder | Integral cylinder |
| | | | |
| Buffer cylinder | | | |
| Part number | 185458 | 185458 | 185458 |
| Туре | SBP 200 E | SBP 200 E | SBP 200 E |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | 203763 | 203763 | 203763 |
| Туре | STH 210 Plus | STH 210 Plus | STH 210 Plus |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | 203764 | 203764 | 203764 |
| Туре | STH 415 Plus | STH 415 Plus | STH 415 Plus |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | 220824 | 220824 | 220824 |
| Туре | SBP 400 E | SBP 400 E | SBP 400 E |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |



Inverter

| | | HPA-O 10 Premium | HPA-0 13 Premium | HPA-0 13 S Premium |
|------------------------------------|----|--------------------|--------------------|--------------------|
| d45 Condensate drain Diameter | mm | 22 | 22 | 22 |
| d47 Drain | | | | |
| e01 Heating flow Connection type | | Plug-in connection | Plug-in connection | Plug-in connection |
| e01 Heating flow Diameter | mm | 28 | 28 | 28 |
| e02 Heating return Connection type | | Plug-in connection | Plug-in connection | Plug-in connection |
| e02 Heating return Diameter | mm | 28 | 28 | 28 |
| g01 Air intake | | | | |
| g02 Air discharge | | | | |

Minimum clearance diagram



Inverter

HPA-0 7-13 C Premium



HPA-0 10 C Premium

Benefits

- The air source heat pump for heating and cooling is installed outdoors
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Even at low outside temperatures, the enhanced (saturated) vapour injection achieves a high flow temperature
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- > Improved room climate in summer with active cooling using circuit reversal
- > High efficiency and low operating costs all year round, thanks to optimally matched components
-) Low operating costs as mono mode DHW heating is possible
-) Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump with output-dependent control and inverter technology is designed as a compact mono block appliance for outdoor installation. • It delivers the required heating output, ensures a reliable supply of domestic hot water and can be used for efficient cooling through circuit reversal. • Its high flow temperatures mean that it can be used for heating and DHW in new and modernised buildings.

Convenience features • Quiet operation thanks to encapsulated refrigerant circuit and acoustically isolated compressor. Contributing to the low sound power level are the modulating fans and the wide gaps between the evaporator fins, which reduce air resistance. • The combined vapour/enhanced saturated vapour injection cools the scroll compressor at low outside temperatures, achieving maximum flow temperature all year round. • The system can be incorporated into a smart home network and controlled via a mobile device if the on-site heat pump controller is combined with the ISG Internet Service Gateway. • With integral heat and electricity metering via refrigerant circuit data. • The emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with eco-friendly, futureproof refrigerant R410A. • The metal casing is corrosion-protected with an alpine white finish and made from hot-dip galvanised, powder coated sheet steel. • Fan grille, recessed grips and cover are made from weatherproof and UV-resistant plastic in aluminium white.

Efficiency • The waste heat from the inverter is used for return temperature raising. This increases the energy efficiency of the overall system. This is further aided by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit. • Demand-dependent, energy efficient defrosting through circuit reversal.

Installation • The integral anti-vibration mount enables the heat pump to be connected directly to the heating system. • The pivoting electrical connection panel makes installation easier. • The condensate pan is easy to reach through a cleaning aperture on the back of the casing.









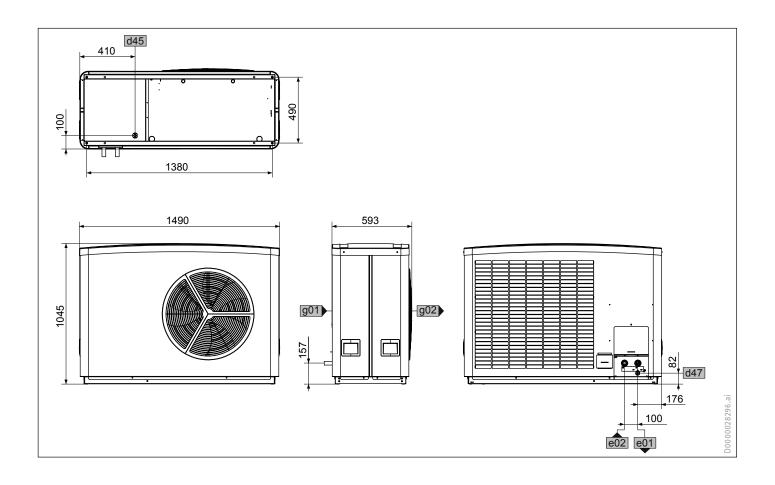
| | | HPA-0 10 C Premium | HPA-0 13 CS Premium | HPA-0 13 C Premium |
|--|----|--------------------|---------------------|--------------------|
| Part number | | 238979 | 238981 | 238983 |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 7.84 | 8.00 | 7.84 |
| Heating output at A2/W35 (EN 14511) | kW | 8.33 | 8.33 | 8.33 |
| Heating output at A-7/W35 (EN 14511) | kW | 9.54 | 12.86 | 12.86 |
| COP at A7/W35 (EN 14511) | | 5.09 | 4.82 | 5.09 |
| COP at A2/W35 (EN 14511) | | 4.14 | 4.14 | 4.14 |
| COP at A-7/W35 (EN 14511) | | 3.26 | 2.98 | 2.93 |
| Max. cooling capacity at A35/ W7 | kW | 11.49 | 14.88 | 14.88 |
| Cooling capacity at A35/W18 partial load | kW | 6.76 | 6.76 | 6.76 |

Inverter

| | | HPA-0 10 C Premium | HPA-0 13 CS Premium | HPA-0 13 C Premium |
|---|-------|---|---|---|
| Max. cooling capacity at A35/ W18 | kW | 15.26 | 17.06 | 17.06 |
| Max. cooling capacity factor at A35/W7 | | 2.53 | 2.38 | 2.38 |
| Cooling capacity factor at A35/ W18 partial load | | 3.76 | 3.76 | 3.76 |
| Max. cooling capacity factor at A35/W18 | | 3.12 | 2.83 | 2.83 |
| SCOP (EN 14825) | | 4.87 | 4.53 | 4.76 |
| Sound power level (EN 12102) | dB(A) | 54 | 54 | 54 |
| Min./max. application limits for heat source | °C | -20 / 40 | -20 / 40 | -20 / 40 |
| Max. application limit on the heating side | °C | | 65 | 65 |
| Height | mm | 1045 | 1045 | 1045 |
| Width | mm | 1490 | 1490 | 1490 |
| Depth | mm | 593 | 593 | 593 |
| Weight | kg | 175 | 175 | 175 |
| Rated voltage, compressor | V | 400 | 230 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 230 | 400 |
| Refrigerant | | R410A | R410A | R410A |
| Required accessories | | | | |
| Part number | | 236000 | 236000 | 236000 |
| Туре | | WPM international | WPM international | WPM international |
| Description | | Heat pump manager in wall mounted enclosure | Heat pump manager in wall mounted enclosure | Heat pump manager in wall mounted enclosure |
| Recommended accessories | | | | |
| Part number | | 229336 | 229336 | 229336 |
| Туре | | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 | 232805 |
| Type | | HM Trend | HM Trend | HM Trend |
| Description | | Hydraulic module | Hydraulic module | Hydraulic module |
| Part number | | 232964 | 232964 | 232964 |
| Туре | | SK 1 | SK 1 | SK 1 |
| Description | | T-support | T-support | T-support |
| Part number | | 233622 AS-WP 1 | 233622 AS-WP 1 | 233622 AS-WP 1 |
| Type Description | | Hydraulic connection set | Hydraulic connection set | Hydraulic connection set |
| Part number | | 233623 | 233623 | 233623 |
| Туре | | AS-WP 2 | AS-WP 2 | AS-WP 2 |
| Description | | Hydraulic connection set | Hydraulic connection set | Hydraulic connection set |
| Part number | | 233826 | 233826 | 233826 |
| Туре | | HMS Trend | HMS Trend | HMS Trend |
| Description | | Hydraulic module | Hydraulic module | Hydraulic module |
| Part number | | 234722 | 234722 | 234722 |
| Туре | | WK 2 | WK 2 | WK 2 |
| Description | | Wall mounting bracket | Wall mounting bracket | Wall mounting bracket |
| DHW cylinder | | | | |
| Part number | | 203801 | 203801 | 203801 |
| Туре | | HSBC 300 cool | HSBC 300 cool | HSBC 300 cool |
| Description | | Integral cylinder | Integral cylinder | Integral cylinder |
| Part number | | 221360 | 221360 | 221360 |
| Туре | | SBB 301 WP | SBB 301 WP | SBB 301 WP |
| Description | | DHW cylinder | DHW cylinder | DHW cylinder |

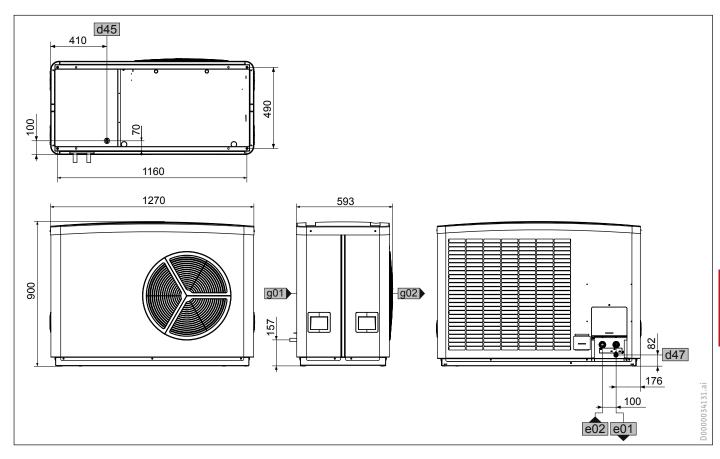
| | HPA-0 10 C Premium | HPA-0 13 CS Premium | HPA-0 13 C Premium |
|-----------------|-------------------------------|-------------------------------|-------------------------------|
| Part number | 221361 | 221361 | 221361 |
| Туре | SBB 302 WP | SBB 302 WP | SBB 302 WP |
| Description | DHW cylinder | DHW cylinder | DHW cylinder |
| Part number | 229981 | 229981 | 229981 |
| Туре | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | 233510 | 233510 | 233510 |
| Туре | HSBC 200 | HSBC 200 | HSBC 200 |
| Description | Integral cylinder | Integral cylinder | Integral cylinder |
| Part number | 234801 | 234801 | 234801 |
| Туре | HSBC 200 S | HSBC 200 S | HSBC 200 S |
| Description | Integral cylinder | Integral cylinder | Integral cylinder |
| Buffer cylinder | | | |
| Part number | 185458 | 185458 | 185458 |
| Туре | SBP 200 E | SBP 200 E | SBP 200 E |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | 203763 | 203763 | 203763 |
| Туре | STH 210 Plus | STH 210 Plus | STH 210 Plus |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | 203764 | 203764 | 203764 |
| Туре | STH 415 Plus | STH 415 Plus | STH 415 Plus |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | 220824 | 220824 | 220824 |
| Туре | SBP 400 E | SBP 400 E | SBP 400 E |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |

Inverter



Inverter

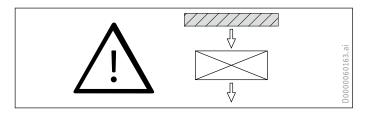
HPA-0 10 C Premium HPA-0 13 C Premium



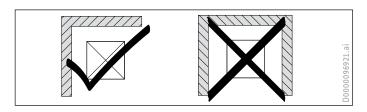
| | | HPA-0 10 C Premium | HPA-0 13 CS Premium | HPA-0 13 C Premium |
|------------------------------------|----|--------------------|---------------------|--------------------|
| d45 Condensate drain Diameter | mm | 22 | 22 | 22 |
| d47 Drain | | | | |
| e01 Heating flow Connection type | | Plug-in connection | Plug-in connection | Plug-in connection |
| e01 Heating flow Diameter | mm | 28 | 28 | 28 |
| e02 Heating return Connection type | | Plug-in connection | Plug-in connection | Plug-in connection |
| e02 Heating return Diameter | mm | 28 | 28 | 28 |
| g01 Air intake | | | | |
| g02 Air discharge | | | | |

Installation conditions

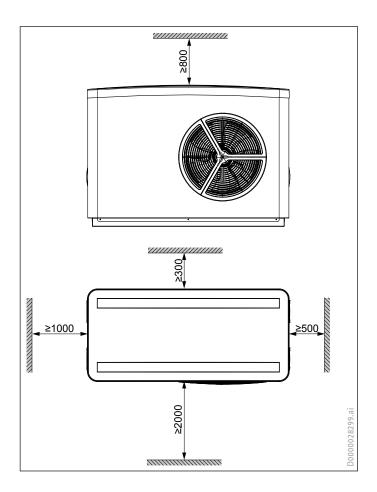
HPA-O 10 C Premium HPA-O 13 C Premium



HPA-0 10 C Premium HPA-0 13 C Premium



Minimum clearance diagram



Inverter

HPA-0 3-8 Plus



HPA-0 3 CS Plus

Benefits

- > The air source heat pump for heating and cooling new-builds is installed outdoors
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Reduced space requirement in installation room thanks to compact outdoor unit combined with various indoor modules
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- > Freezing up of the compressor and blocking of the condensate drain are prevented by means of an 'anti-block condensate' (ABC design)
- Can be integrated into the home network and operated via a smartphone
- > High DHW convenience with large mixed water volume due to high flow temperature
- > Straightforward hydraulic connection due to integral anti-vibration mounts
- The air source heat pump is ideally suited to new builds

Application • Air source heat pump with output-dependent control and inverter technology. The compact mono block version is installed outdoors. The heat pump can be used in new builds and buildings with low system temperature for heating and DHW operation as well as for efficient cooling. • The heat pump is supplied in a kit with compact and perfectly matched indoor modules to ensure straightforward, space saving installation in the building.

Convenience features • Quiet operation thanks to the encapsulated refrigerant circuit and acoustically isolated compressor. With integral heat and electricity metering via refrigerant circuit data.

Efficiency • The waste heat from the inverter raises the return temperature which, together with demand-dependent defrosting by circuit reversal, significantly increases the overall efficiency of the system.

Installation • Thanks to the integral anti-vibration mounts, the heat pump can be connected directly to the heating system. An extensive range of accessories for effective drainage of condensate is available for both floorstanding and wall mounted installations. The electrical connection panel can be easily reached without having to open the appliance.







| | | HPA-0 3 CS Plus | HPA-O 4 CS Plus | HPA-O 6 CS Plus | HPA-O 8 CS Plus |
|--|----|-----------------|-----------------|-----------------|-----------------|
| | | | | | |
| Specification | | | | | |
| Energy efficiency class, heat pump W35 | | A++ | A++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+ | A+ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A++ | A++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A+ | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 2.73 | 2.73 | 4.86 | 4.86 |
| Heating output at A2/W35 (EN 14511) | kW | 2.08 | 2.58 | 5.30 | 5.30 |
| Heating output at A-7/W35 (EN 14511) | kW | 3.20 | 3.96 | 6.00 | 7.80 |
| COP at A7/W35 (EN 14511) | | 4.70 | 4.70 | 4.76 | 4.76 |
| COP at A2/W35 (EN 14511) | | 3.70 | 3.64 | 3.80 | 3.80 |
| COP at A-7/W35 (EN 14511) | | 2.81 | 2.73 | 2.98 | 2.91 |
| Max. cooling capacity at A35/ W7 | kW | 2.00 | 3.00 | 5.00 | 6.00 |
| Cooling capacity at A35/W18 partial load | kW | 1.50 | 1.50 | 2.50 | 3.00 |
| Max. cooling capacity at A35/ W18 | kW | 2.00 | 3.00 | 5.00 | 6.00 |
| Max. cooling capacity factor at A35/W7 | | 2.15 | 1.62 | 1.73 | 1.73 |
| Cooling capacity factor at A35/ W18 partial load | | 3.56 | 3.56 | 3.28 | 3.28 |

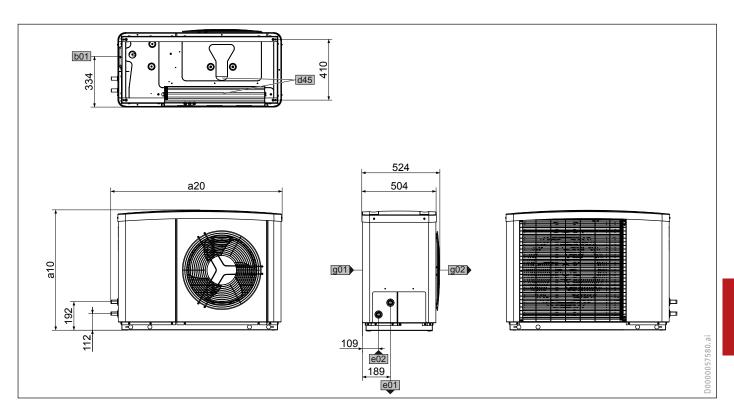
Inverter

| | | HPA-0 3 CS Plus | HPA-0 4 CS Plus | HPA-0 6 CS Plus | HPA-0 8 CS Plus |
|--|-------|-----------------|-----------------|-----------------|-----------------|
| Max. cooling capacity factor at A35/W18 | | 3.12 | 3.12 | 2.88 | 2.88 |
| SCOP (EN 14825) | | 4.23 | 4.15 | 4.50 | 4.50 |
| Sound power level (EN 12102) | dB(A) | 52 | 52 | 57 | 57 |
| Min./max. application limits for heat source | °C | -2040 | -2040 | -2040 | -2040 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 | 60 |
| Height | mm | 740 | 740 | 812 | 812 |
| Width | mm | 1022 | 1022 | 1152 | 1152 |
| Depth | mm | 524 | 524 | 524 | 524 |
| Weight | kg | 62 | 62 | 91 | 91 |
| Rated voltage, compressor | V | 230 | 230 | 230 | 230 |
| Refrigerant | | R410A | R410A | R410A | R410A |

| Recommended accessories | | | | |
|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Part number | 229336 | 229336 | 229336 | 229336 |
| Туре | ISG web | ISG web | ISG web | ISG web |
| Description | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | 236693 | 236693 | 236693 | 236693 |
| Туре | SK 2 | SK 2 | SK 2 | SK 2 |
| Description | T-support | T-support | T-support | T-support |
| Part number | 238686 | 238686 | 238686 | 238686 |
| Туре | WK 1.1 | WK 1.1 | WK 1.1 | WK 1.1 |
| Description | Wall mounting bracket | Wall mounting bracket | Wall mounting bracket | Wall mounting bracket |

Only available in the set.

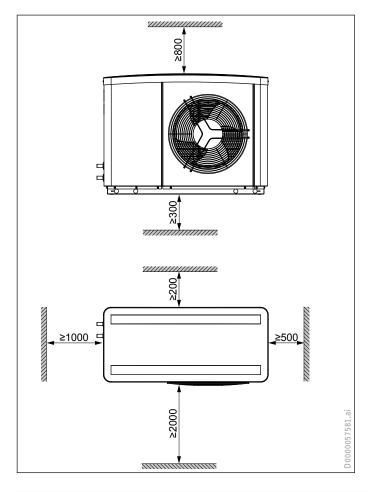
The necessary T-support or wall mounting bracket is available as an accessory



| | | HPA-0 3 CS Plus | HPA-0 4 CS Plus | HPA-0 6 CS Plus | HPA-O 8 CS Plus |
|-----------------------------|----|-----------------|-----------------|-----------------|-----------------|
| a10 Appliance Height | mm | 740 | 740 | 812 | 812 |
| a20 Appliance Width | mm | 1,022 | 1,022 | 1,152 | 1,152 |
| b01 Entry electrical cables | | | | | |
| d45 Condensate drain | | | | | |
| e01 Heating flow Diameter | mm | 22 | 22 | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 | 22 | 22 |
| g01 Air intake | | | | | |
| g02 Air discharge | | | | | |

Inverter

Minimum clearance diagram



HPA-O CS Plus flex Set



Benefits

- > The air source heat pump is ideally suited to new builds
- > Depending on the cylinder, also suitable for higher DHW demand
- > Can be combined with any cylinder range
- > The mono block heat pump is installed outdoors and its variable speed compressor ensures perfectly matched heating output
-) Hydraulic module with all relevant heating components including heat pump manager for integrating the heat pump and cylinder

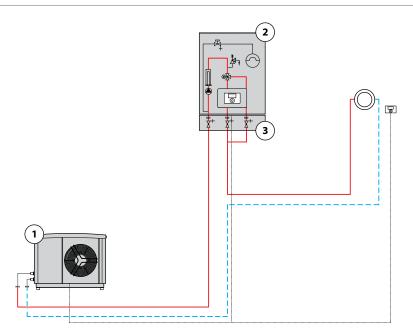


HPA-0 3 CS Plus flex Set

Application • Mono block heat pump with output-dependent control, in combination with a hydraulic module. • This configuration makes it possible to meet different requirements with regard to DHW convenience, through free combination with DHW cylinders. • The hydraulic connection can be achieved by flexibly adding buffer cylinders. • The following components are already integrated: a highly efficient circulation pump for the heating and DHW sides, electric emergency/auxiliary heater, heating expansion vessel, safety valve, quick-action air vent valve, 3/2-way diverter valve and the heat pump manager for controlling the system.

| | HPA-0 3 CS Plus flex Set | HPA-0 3 CS Plus flex Set S | HPA-0 4 CS Plus flex Set | HPA-0 4 CS Plus flex Set S |
|-------------|--------------------------|----------------------------|--------------------------|----------------------------|
| Part number | 239051 | 238988 | 239052 | 238989 |
| | HPA-O 6 CS Plus flex Set | HPA-0 6 CS Plus flex Set S | HPA-0 8 CS Plus flex Set | HPA-0 8 CS Plus flex Set S |
| Part number | 239053 | 238990 | 239054 | 238991 |

Inverter



| Set components | | HPA-0 3 CS Plus flex Set | HPA-0 3 CS Plus flex Set S | HPA-0 4 CS Plus flex Set | HPA-0 4 CS Plus flex Set S |
|----------------|------|--------------------------|----------------------------|--------------------------|----------------------------|
| 1 | Type | HPA-0 3 CS Plus | HPA-0 3 CS Plus | HPA-0 4 CS Plus | HPA-0 4 CS Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 2 | Type | HM Trend | HMS Trend | HM Trend | HMS Trend |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 3 | Type | AS-HM Trend | AS-HM Trend | AS-HM Trend | AS-HM Trend |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

| Set components | | HPA-O 6 CS Plus flex Set | HPA-0 6 CS Plus flex Set S | HPA-0 8 CS Plus flex Set | HPA-0 8 CS Plus flex Set S |
|----------------|------|--------------------------|----------------------------|--------------------------|----------------------------|
| 1 | Type | HPA-0 6 CS Plus | HPA-0 6 CS Plus | HPA-0 8 CS Plus | HPA-0 8 CS Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 2 | Type | HM Trend | HMS Trend | HM Trend | HMS Trend |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 3 | Type | AS-HM Trend | AS-HM Trend | AS-HM Trend | AS-HM Trend |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

 $\label{prop:continuous} Further\ information\ about\ the\ set\ components\ can\ be\ found\ under\ the\ respective\ product.$

The necessary T-support or wall mounting bracket is available as an accessory. More details regarding set contents can be found under the relevant product

The necessary plinth or wall mounting bracket is available as an accessory (Product: 238988, 238989, 238990, 238991)

Inverter

HPA-O Plus compact D Set 1.1



Benefits

- > The air source heat pump is ideally suited to new builds
- > Thanks to flow separation, the heating system can be integrated easily and very safely
- > Small footprint as just one indoor and outdoor unit is required
- > The mono block heat pump is installed outdoors and its variable speed compressor ensures perfectly matched heating output
- > DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing

Application • The mono block heat pump with output-dependent control has a highly integrated indoor unit to minimise the installation area. • The following components are already integrated: DHW cylinder, parallel buffer cylinder, cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve and electric emergency/auxiliary heater. The heat pump manager, which controls the appliance, is also built in.

| | HPA-0 3 CS Plus compact D Set 1.1 | HPA-0 3 CS Plus compact D Set S 1.1 | HPA-0 4 CS Plus compact D Set 1.1 | HPA-0 4 CS Plus compact D Set S 1.1 |
|-------------|--------------------------------------|--|--------------------------------------|--|
| Part number | 204282 | 204277 | 204274 | 204278 |
| | | | | |
| | HPA-0 6 CS Plus compact D Set 1.1 | HPA-0 6 CS Plus compact D Set S 1.1 | HPA-0 8 CS Plus compact D Set 1.1 | HPA-0 8 CS Plus compact D Set S 1.1 |
| Part number | 204275 | 204279 | 204276 | 204280 |
| | | | | |

| Set components | | HPA-0 3 CS Plus compact D Set 1.1 | HPA-0 3 CS Plus compact D Set S 1.1 | HPA-0 4 CS Plus compact D Set 1.1 | HPA-0 4 CS Plus compact D Set S 1.1 |
|----------------|------|--------------------------------------|--|--------------------------------------|--|
| 1 | Туре | HPA-0 3 CS Plus | HPA-0 3 CS Plus | HPA-0 4 CS Plus | HPA-0 4 CS Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 2 | Type | HSBC 180 Plus | HSBC 180 S Plus | HSBC 180 Plus | HSBC 180 S Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| Set components | | HPA-O 6 CS Plus compact | HPA-O 6 CS Plus compact D | HPA-O & CS Plus compact | HPA-O & CS Plus compact D |

| Set components | | HPA-0 6 CS Plus compact D Set 1.1 | HPA-0 6 CS Plus compact D Set S 1.1 | HPA-0 8 CS Plus compact D Set 1.1 | HPA-0 8 CS Plus compact D Set S 1.1 |
|----------------|------|--------------------------------------|--|--------------------------------------|--|
| 1 | Type | HPA-0 6 CS Plus | HPA-0 6 CS Plus | HPA-0 8 CS Plus | HPA-0 8 CS Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

| Set components | | HPA-0 6 CS Plus compact D Set 1.1 | HPA-0 6 CS Plus compact D Set S 1.1 | HPA-0 8 CS Plus compact D Set 1.1 | HPA-0 8 CS Plus compact D Set S 1.1 |
|----------------|------|--------------------------------------|--|--------------------------------------|--|
| 2 | Type | HSBC 180 Plus | HSBC 180 S Plus | HSBC 180 Plus | HSBC 180 S Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

Further information about the set components can be found under the respective product.

The necessary T-support or wall mounting bracket is available as an accessory.

Inverter

WPL 19/24 A



WPL 19 A Set

Benefits

- > The air source heat pump for heating older buildings is installed outdoors
-) Inverter technology allows ideally matched heating output through the variable speed compressor
- > Even at low outside temperatures, the enhanced (saturated) vapour injection achieves a high flow temperature
- > Optimised for replacement of 13/18/23 E air source heat pumps installed outdoors
- > Because of the high flow temperature all year round, also suitable for modernisation projects and for DHW heating
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
- > Can be integrated into the home network and operated via a smartphone
- > High efficiency and low operating costs all year round, thanks to optimally matched components
-) Low operating costs as mono mode DHW heating is possible

Application • The compact air source heat pump with output-dependent control and inverter technology is installed in outdoor areas and is also suitable for installation in open spaces. • It can be used for modernisation, since it provides a flow temperature of up to 65 °C all year round for heating operation and DHW heating.

Convenience features • Very quiet operation due to the encapsulated refrigerant circuit and acoustically isolated compressor. The modulating fan and the wide gaps between the evaporator fins, which create low air resistance, also help to minimise the sound power level. • With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation possible with emergency/auxiliary heater. • The metal casing is corrosion-protected. It is made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • High flow temperature all year round according to demand, as the combined enhanced vapour injection/ enhanced saturated vapour injection cools the scroll compressor at low outside temperatures. This allows operation without an auxiliary heater. • The waste heat from the inverter is used to raise the return temperature. In addition, demand-dependent defrosting by means of circuit reversal and the heating of the condensate pan by the refrigerant circuit increase the overall efficiency of the system.

Installation • The heat pump with integral anti-vibration mounts is directly connected to the heating system.







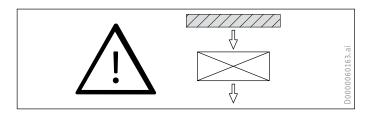


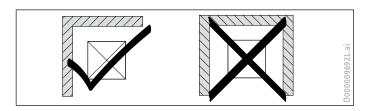


| | | WPL 19 A Set | WPL 24 A Set |
|--|-------|--------------|--------------|
| Part number | | 236412 | 236413 |
| Constitution | | | |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 6.70 | 7.41 |
| Heating output at A2/W35 (EN 14511) | kW | 7.41 | 9.04 |
| Heating output at A-7/W35 (EN 14511) | kW | 9.91 | 13.45 |
| COP at A7/W35 (EN 14511) | | 4.99 | 4.72 |
| COP at A2/W35 (EN 14511) | | 4.12 | 4.00 |
| COP at A-7/W35 (EN 14511) | | 3.32 | 3.00 |
| SCOP (EN 14825) | | 4.60 | 4.58 |
| Sound power level (EN 12102) | dB(A) | 59 | 59 |
| Min./max. application limits for heat source | °C | -20/40 | -20/40 |
| Max. application limit on the heating side | °C | 65 | 65 |
| Height | mm | 1434 | 1434 |

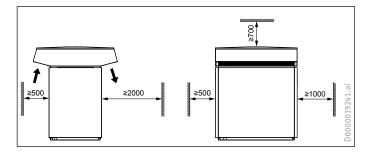
| | | WPL 19 A Set | WPL 24 A Set |
|--|----|-------------------------------|-------------------------------|
| Width | mm | 1240 | 1240 |
| Depth | mm | 1280 | 1280 |
| Weight | kg | 279 | 279 |
| Rated voltage, compressor | V | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 |
| Refrigerant | | R410A | R410A |
| Recommended accessories | | | |
| Part number | | 229336 | 229336 |
| Type | | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 |
| Туре | | HM Trend | HM Trend |
| Description | | Hydraulic module | Hydraulic module |
| Part number | | 233826 | 233826 |
| Type | | HMS Trend | HMS Trend |
| Description | | Hydraulic module | Hydraulic module |
| DHW cylinder | | | |
| Part number | | 203801 | 203801 |
| Туре | | HSBC 300 cool | HSBC 300 cool |
| Description | | Integral cylinder | Integral cylinder |
| Part number | | 221360 | 221360 |
| Type | | SBB 301 WP | SBB 301 WP |
| Description | | DHW cylinder | DHW cylinder |
| Part number | | 229981 | 229981 |
| Type | | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 233510 | 233510 |
| Type | | HSBC 200 | HSBC 200 |
| Description | | Integral cylinder | Integral cylinder |
| Part number | | 234801 | 234801 |
| Туре | | HSBC 200 S | HSBC 200 S |
| Description | | Integral cylinder | Integral cylinder |
| Buffer cylinder | | | |
| Part number | | 185458 | 185458 |
| Туре | | SBP 200 E | SBP 200 E |
| Description | | Buffer cylinder | Buffer cylinder |
| Part number | | 203763 | 203763 |
| Туре | | STH 210 Plus | STH 210 Plus |
| Description | | Buffer cylinder | Buffer cylinder |

Installation conditions





Minimum clearance diagram



Inverter

HPA-O Plus compact Set 1.1

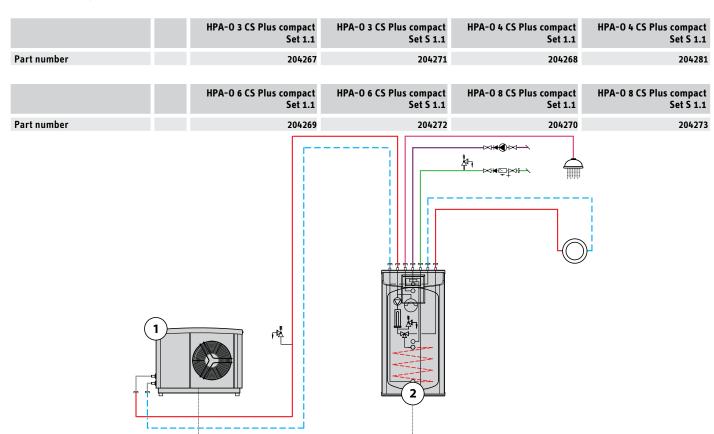


Benefits

- > The air source heat pump is ideally suited to new builds
- > Cost optimised solution with all required system components incl. DHW cylinder
- > Small footprint as just one indoor and outdoor unit is required
- > The mono block heat pump is installed outdoors and its variable speed compressor ensures perfectly matched heating output
- > Compact DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing

Application • The mono block heat pump with output-dependent control is equipped with a DHW cylinder and all hydraulic components for the heating installation. • Standard delivery also includes: circulation pump, 3/2-way diverter valve, safety valve and electric emergency/auxiliary heater. • The integral heat pump manager controls the appliance.

HPA-0 3 CS Plus compact Set 1.1



| Set components | | HPA-0 3 CS Plus compact Set 1.1 | HPA-0 3 CS Plus compact Set S 1.1 | HPA-0 4 CS Plus compact Set 1.1 | HPA-0 4 CS Plus compact Set S 1.1 |
|----------------|------|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|
| 1 | Type | HPA-0 3 CS Plus | HPA-0 3 CS Plus | HPA-0 4 CS Plus | HPA-0 4 CS Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 2 | Type | HSBB 180 Plus | HSBB 180 S Plus | HSBB 180 Plus | HSBB 180 S Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

| Set components | | HPA-0 6 CS Plus compact Set 1.1 | HPA-0 6 CS Plus compact Set S 1.1 | HPA-0 8 CS Plus compact Set 1.1 | HPA-0 8 CS Plus compact Set S 1.1 |
|----------------|------|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|
| 1 | Type | HPA-0 6 CS Plus | HPA-0 4 CS Plus | HPA-0 8 CS Plus | HPA-0 8 CS Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

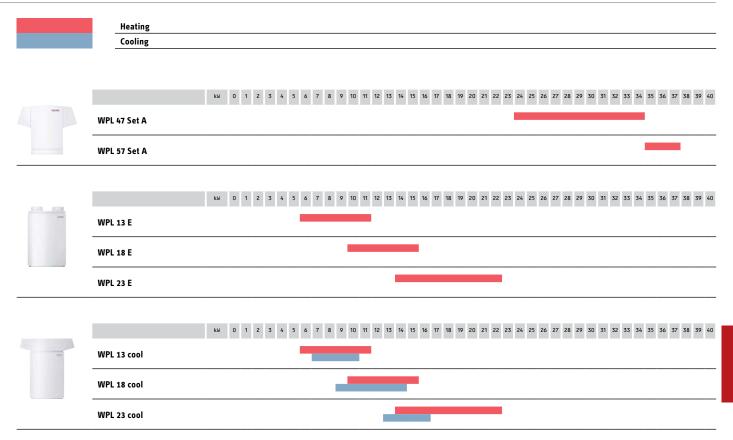
Inverter

| Set components | | HPA-0 6 CS Plus compact Set 1.1 | HPA-0 6 CS Plus compact Set S 1.1 | HPA-0 8 CS Plus compact Set 1.1 | HPA-0 8 CS Plus compact Set S 1.1 |
|----------------|------|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|
| 2 | Type | HSBB 180 Plus | HSBB 180 S Plus | HSBB 180 Plus | HSBB 180 S Plus |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

Further information about the set components can be found under the respective product. The necessary T-support or wall mounting bracket is available as an accessory.

Air source heat pumps, outdoor installation - fixed speed

Application areas



Air source heat pumps, outdoor installation – fixed speed

| Fixed speed WPL 47/57 WPL 13-23 E | | 207 210 |
|---|--|------------|
| WPL 13-23 cool | | 214 |
| | | |
| | | |

Air source heat pumps, outdoor installation - fixed speed

Fixed speed

WPL 47/57



WPL 47 Set A

Benefits

- > The air source heat pump for heating is installed outdoors
-) Low installed height
- > With integral heat and electricity meters
- > Electronic expansion valve
- > Suitable for cascade connection with high output demand
- > Suitable for use in residential and commercial buildings due to high output
- > Extremely versatile due to cascade control and dual mode integration
- > High reliability thanks to robust single compressor design

Application • The air source heat pump is installed outdoors. Its high output up to 24 kW as a single appliance and up to 144 kW in a cascade makes it suitable for apartment buildings and commercial applications. • The casing design allows flexible installation, even in open spaces.

Convenience features • Quiet operation thanks to the encapsulated refrigerant circuit and acoustically isolated compressor. The wide gaps between the evaporator fins create low air resistance and, in combination with the modulating fan, result in a low sound power level. • In combination with the ISG Internet Service Gateway (optional accessory), the heat pump controller (accessory) can be used to control the system via the home network or a mobile device.
• With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally via a 230 V signal. • Can be integrated into a building automation system if required using a software extension.
• The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C.

Efficiency • Demand-dependent, energy efficient defrosting through circuit reversal. • The condensate pan is heated by the refrigerant circuit to enable efficient defrosting.

Installation • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.



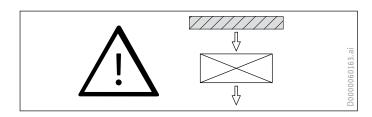


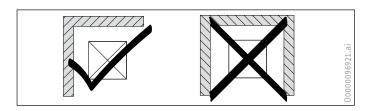
| | | WPL 47 Set A | WPL 57 Set A |
|--|-------|--------------|--------------|
| Part number | | 228836 | 228837 |
| raitiumpei | | 220030 | 220031 |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A++ | A+ |
| Energy efficiency class, heat pump W55 | | A+ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A++ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A+ |
| Heating output at A7/W35 (EN 14511) | kW | 26.83 | 31.01 |
| Heating output at A2/W35 (EN 14511) | kW | 24.82 | 29.81 |
| Heating output at A-7/W35 (EN 14511) | kW | 21.68 | 24.02 |
| COP at A7/W35 (EN 14511) | | 3.94 | 3.59 |
| COP at A2/W35 (EN 14511) | | 3.43 | 3.30 |
| COP at A-7/W35 (EN 14511) | | 3.05 | 2.84 |
| SCOP (EN 14825) | | 3.85 | 3.475 |
| Sound power level (EN 12102) | dB(A) | 67 | 69 |
| Min./max. application limits for heat source | °C | -20 / 40 | -20 / 40 |
| Max. application limit on the heating side | °C | 60 | 60 |
| Height | mm | 1485 | 1485 |

Air source heat pumps, outdoor installation – fixed speed Fixed speed

| | | WPL 47 Set A | WPL 57 Set A |
|--|----|---|---|
| Width | mm | 1860 | 1860 |
| Depth | mm | 2040 | 2040 |
| Weight | kg | 540 | 600 |
| Rated voltage, compressor | V | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 |
| Rated voltage, control unit | V | 230 | 230 |
| Refrigerant | | R407C | R407C |
| Colour | | white | white |
| Required accessories | | | |
| Part number | | 236000 | 236000 |
| Type | | WPM international | WPM international |
| Description | | Heat pump manager in wall mounted enclosure | Heat pump manager in wall mounted enclosure |
| Recommended accessories | | | |
| Part number | | 229336 | 229336 |
| Туре | | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway |
| DHW cylinder | | | |
| Part number | | 229981 | 229981 |
| Туре | | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 229982 | 229982 |
| Туре | | SBS 1001 W | SBS 1001 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders |
| Buffer cylinder | | | |
| Part number | | 185459 | 185459 |
| Type | | SBP 700 E | SBP 700 E |
| Description | | Buffer cylinder | Buffer cylinder |
| Part number | | 203765 | 203765 |
| Type | | STH 720 Plus | STH 720 Plus |
| Description | | Buffer cylinder | Buffer cylinder |
| Part number | | 227564 | 227564 |
| Туре | | SBP 1000 E | SBP 1000 E |
| Description | | Buffer cylinder | Buffer cylinder |

Installation conditions





Air source heat pumps, outdoor installation - fixed speed

Fixed speed

WPL 13-23 E



WPL 13 E

Benefits

- › Air source heat pump for heating
- > High heating output at low outside temperatures through enhanced vapour injection
- > Higher COP through optimised refrigerant circuit
- > Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump for heating and DHW can be installed either outdoors or indoors as a mono block and has enhanced vapour injection.

Convenience features • Quiet operation thanks to twin anti-vibration compressor mounts. • Enhanced vapour injection cools the scroll compressor at low outside temperatures, thereby achieving a higher heating output. • In combination with the ISG Internet Service Gateway, the on-site heat pump controller can be used to control the system in the home network or via a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • An emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C

Efficiency • Time optimised and energy efficient defrosting through circuit reversal with a 4/2-way valve. • For efficient defrosting, the condensate pan is also heated by the refrigerant circuit.

Installation • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.





| | | WPL 13 E | WPL 18 E | WPL 23 E |
|--|-------|----------|----------|----------|
| Part number | | 227756 | 227757 | 227758 |
| | | | | |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A++ | A++ | A+ |
| Energy efficiency class, heat pump W55 | | A+ | A+ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A+ | A+ |
| Heating output at A7/W35 (EN 14511) | kW | 8.93 | 12.90 | 16.56 |
| Heating output at A2/W35 (EN 14511) | kW | 8.09 | 11.30 | 15.73 |
| Heating output at A-7/W35 (EN 14511) | kW | 6.77 | 9.72 | 13.21 |
| COP at A7/W35 (EN 14511) | | 4.35 | 4.46 | 3.99 |
| COP at A2/W35 (EN 14511) | | 3.76 | 3.73 | 3.62 |
| COP at A-7/W35 (EN 14511) | | 3.20 | 3.27 | 3.14 |
| SCOP (EN 14825) | | 3.85 | 4.00 | 3.775 |
| Sound power level (EN 12102) | dB(A) | 64 | 65 | 65 |
| Sound power level, outdoor installation (EN 12102) | dB(A) | 64 | 65 | 65 |
| Min./max. application limits for heat source | °C | -2040 | -2040 | -2040 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 |
| Height | mm | 1116 | 1116 | 1116 |
| Width | mm | 784 | 784 | 784 |
| Depth | mm | 1182 | 1182 | 1182 |

Air source heat pumps, outdoor installation – fixed speed Fixed speed

| | | WPL 13 E | WPL 18 E | WPL 23 E |
|-------------------------------|----|--|--|--|
| Weight | kg | 205 | 212 | 211 |
| Rated voltage, compressor | ٧ | 400 | 400 | 400 |
| Rated voltage, emergency/aux- | ٧ | 400 | 400 | 400 |
| iliary heater | | | | |
| Rated voltage, control unit | V | 230 | 230 | 230 |
| Refrigerant | | R407C | R407C | R4070 |
| Colour | | white | white | |
| Required accessories | | | | |
| Part number | | 074412 | 074412 | 074412 |
| Type | | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 |
| Description | | Casing components for indoor instal- lation | Casing components for indoor instal- lation | Casing components for indoor instal- lation |
| Part number | | 074413 | 074413 | 074413 |
| Туре | | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A |
| Description | | Casing components for outdoor in- | Casing components for outdoor in- | Casing components for outdoor in- |
| | | stallation | stallation | stallation |
| Part number | | 201721 | 201721 | 201721 |
| Туре | | LSWP 560-3 SG | LSWP 560-3 SG | LSWP 560-3 SG |
| Description | | Thermally and sound insulated air hose | Thermally and sound insulated air hose | Thermally and sound insulated air hose |
| Part number | | 233837 | 233837 | 233837 |
| Туре | | AWG 560 H-SR | AWG 560 H-SR | AWG 560 H-SR |
| Description | | External wall outlet, thermally insu- | External wall outlet, thermally insu- | External wall outlet, thermally insu- |
| | | lated | lated | lated |
| Recommended accessories | | | | |
| Part number | | 229336 | 229336 | 229336 |
| Type | | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 | |
| Type | | HM Trend | HM Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| Part number | | 233826 | 233826 | |
| Туре | | HMS Trend | HMS Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| DHW cylinder | | | | |
| Part number | | 203801 | 203801 | |
| Туре | | HSBC 300 cool | HSBC 300 cool | |
| Description | | Integral cylinder | Integral cylinder | |
| Part number | | 221360 | eg.a. cyae. | |
| Туре | | SBB 301 WP | | |
| Description | | DHW cylinder | | |
| Part number | | Ziiii cyiiiidei | 221361 | 221361 |
| Туре | | | SBB 302 WP | SBB 302 WF |
| Description | | | DHW cylinder | DHW cylinder |
| Part number | | | - · · · · · · · · · · · · · · · · · · · | 221362 |
| Туре | | | | SBB 401 WP SOL |
| Description | | | | DHW cylinder |
| Part number | | 229981 | 229981 | 229981 |
| Туре | | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 233510 | 233510 | |
| Type | | HSBC 200 | HSBC 200 | |
| Description | | Integral cylinder | Integral cylinder | |
| Part number | | 234801 | 234801 | |
| Type | | HSBC 200 S | HSBC 200 S | |
| | | | | |

Air source heat pumps, outdoor installation - fixed speed

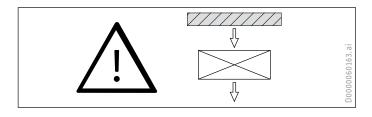
Fixed speed

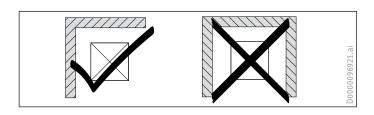
| | WPL 13 E | WPL 18 E | WPL 23 E |
|-----------------|-----------------|-----------------|-----------------|
| Buffer cylinder | | | |
| Part number | 185458 | | |
| Туре | SBP 200 E | | |
| Description | Buffer cylinder | | |
| Part number | 203763 | | |
| Туре | STH 210 Plus | | |
| Description | Buffer cylinder | | |
| Part number | 203764 | 203764 | 203764 |
| Туре | STH 415 Plus | STH 415 Plus | STH 415 Plus |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | | 220824 | 220824 |
| Туре | | SBP 400 E | SBP 400 E |
| Description | | Buffer cylinder | Buffer cylinder |

The housing required for indoor or outdoor installation is available as an accessory.

Wall outlets and air hoses for indoor installation must be ordered separately and are available as accessories in various versions. Preliminary specification (Product: 227756, 227758)

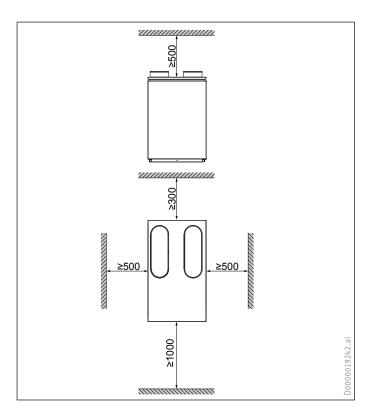
Installation conditions





Fixed speed

Minimum clearance diagram



Air source heat pumps, outdoor installation - fixed speed

Fixed speed

WPL 13-23 cool



WPL 13 cool

Benefits

- › Air source heat pump for heating and cooling
- > High heating output at low outside temperatures through enhanced vapour injection
- > Higher COP through optimised refrigerant circuit
- › Active cooling through circuit reversal
- > Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump can be installed either outdoors or indoors as a mono block and has enhanced vapour injection. • It can be used for heating and DHW operation, as well as for efficient cooling through circuit reversal.

Convenience features • Quiet operation thanks to twin anti-vibration compressor mounts. • Enhanced vapour injection cools the scroll compressor at low outside temperatures, thereby achieving a higher heating output. • The built-in 4/2-way valve allows the refrigerant circuit to be switched from heating to cooling mode. • In combination with the ISG Internet Service Gateway, the on-site heat pump controller can be used to control the system in the home network or via a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • An emergency/ auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C

Efficiency • Time optimised and energy efficient defrosting through circuit reversal with a 4/2-way valve. • For efficient defrosting, the condensate pan is also heated by the refrigerant circuit.

Installation • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.



| | | WPL 13 cool | WPL 18 cool | WPL 23 cool |
|--|-------|-------------|-------------|-------------|
| Part number | | 223400 | 223401 | 223402 |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A+ | A++ | A+ |
| Energy efficiency class, heat pump W55 | | A+ | A+ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A++ | A++ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A++ | A+ |
| Heating output at A7/W35 (EN 14511) | kW | 9.01 | 12.30 | 14.45 |
| Heating output at A2/W35 (EN 14511) | kW | 8.10 | 11.30 | 14.14 |
| Heating output at A-7/W35 (EN 14511) | kW | 6.60 | 9.72 | 12.27 |
| COP at A7/W35 (EN 14511) | | 4.00 | 4.30 | 3.52 |
| COP at A2/W35 (EN 14511) | | 3.40 | 3.70 | 3.23 |
| COP at A-7/W35 (EN 14511) | | 3.00 | 3.20 | 2.91 |
| SCOP (EN 14825) | | 3.75 | 4.075 | 3.475 |
| Sound power level (EN 12102) | dB(A) | 64 | 65 | 65 |
| Sound power level, outdoor installation (EN 12102) | dB(A) | 62 | 65 | 65 |
| Min./max. application limits for heat source | °C | -2040 | -2040 | -2040 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 |
| Height | mm | 1116 | 1116 | 1116 |
| Width | mm | 784 | 784 | 784 |
| Depth | mm | 1182 | 1182 | 1182 |

Air source heat pumps, outdoor installation – fixed speed Fixed speed

| | | WPL 13 cool | WPL 18 cool | WPL 23 cool |
|--|----|---|--|---|
| Weight | kg | 210 | 214 | 220 |
| Rated voltage, compressor | V | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 |
| Rated voltage, control unit | V | 230 | 230 | 230 |
| Refrigerant | | R407C | R407C | R407C |
| Colour | | white | white | |
| Required accessories | | | | |
| Part number | | 074412 | 074412 | 074412 |
| Туре | | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I |
| Description | | Casing components for indoor instal- lation | Casing components for indoor instal- lation | Casing components for indoor instal- lation |
| Part number | | 074413 | 074413 | 074413 |
| Type | | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A |
| Description | | Casing components for outdoor in- stallation | Casing components for outdoor installation | Casing components for outdoor in- stallation |
| Part number | | 201721 | 201721 | 201721 |
| Туре | | LSWP 560-3 SG | LSWP 560-3 SG | LSWP 560-3 SG |
| Description | | Thermally and sound insulated air hose | Thermally and sound insulated air hose | Thermally and sound insulated air hose |
| Part number | | 233837 | 233837 | 233837 |
| Туре | | AWG 560 H-SR | AWG 560 H-SR | AWG 560 H-SR |
| Description | | External wall outlet, thermally insu- lated | External wall outlet, thermally insu- lated | External wall outlet, thermally insulated |
| Recommended accessories | | | | |
| Part number | | 229336 | 229336 | 229336 |
| Туре | | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 | |
| Type | | HM Trend | HM Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| Part number | | 233826 | 233826 | |
| Туре | | HMS Trend | HMS Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| DHW cylinder | | | | |
| Part number | | 221360 | | |
| Type | | SBB 301 WP | | |
| Description | | DHW cylinder | | |
| Part number | | | 221361 | 221361 |
| Type | | | SBB 302 WP | SBB 302 WP |
| Description | | | DHW cylinder | DHW cylinder |
| Part number | | | | 221362 |
| Type Description | | | | SBB 401 WP SOL DHW cylinder |
| Buffer cylinder | | | | |
| Part number | | 185458 | | |
| Туре | | SBP 200 E | | |
| Description | | Buffer cylinder | | |
| Part number | | 203763 | | |
| Туре | | STH 210 Plus | | |
| Description | | Buffer cylinder | | |
| Part number | | | 203764 | 203764 |
| Type | | | STH 415 Plus | STH 415 Plus |
| Description | | | Buffer cylinder | Buffer cylinder |

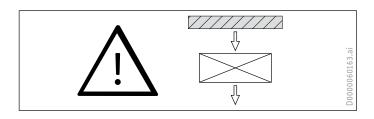
Air source heat pumps, outdoor installation - fixed speed

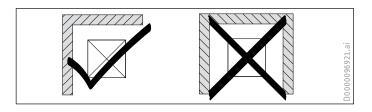
Fixed speed

| | WPL 13 cool | WPL 18 cool | WPL 23 cool |
|-------------|-------------|-----------------|-----------------|
| Part number | | 220824 | 220824 |
| Type | | SBP 400 E | SBP 400 E |
| Description | | Buffer cylinder | Buffer cylinder |

The housing required for indoor or outdoor installation is available as an accessory.

Installation conditions

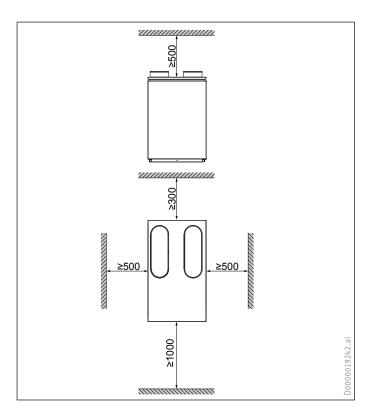




Wall outlets and air hoses for indoor installation must be ordered separately and are available as accessories in various versions.

Fixed speed

Minimum clearance diagram





Installation accessories

AS WP



Connection set for supply lines from the ground. The white painted cover protects against the elements.

AS-WP 1

| | AS-WP 1 | AS-WP 2 |
|---------------|-------------|---------|
| Part number | 233622 | 233623 |
| Specification | | |
| Connection | 32 x 2.9 mm | G 1 1/4 |

WK



Benefit

) Includes ribbon heater to keep condensate connection free from frost (Product: 234722)

Wall mounting bracket made from corrosion-protected galvanised steel. Including height-adjustable wall rail and an appliance rail for aligning the heat pump.

WK 2

| | | WK 2 |
|--------------------------------|----|--------|
| Part number | | 234722 |
| | | |
| Specification | | |
| Weight load | kg | 175 |
| Heated length | mm | 2000 |
| Connecting of connecting cable | mm | 2000 |

Installation accessories

WK 1.1



Wall mounting bracket made from corrosion-protected galvanised steel. Height-adjustable wall rail, the heat pump can be aligned with the aid of the appliance rail.

WK 1.1

| | | WK 1.1 |
|---------------|----|--------|
| Part number | | 238686 |
| Specification | | |
| Weight load | kg | 120 |

Standard delivery includes: 2 pce, incl. anti-vibration mounts.

SK 1



Stainless steel, T-shaped support for concreting in, for positioning outdoors.

SK 1

| | | S |
|--------------------------------|----|-----|
| Part number | | 232 |
| | | |
| Specification | | |
| Height | mm | |
| Weight load Heated length | kg | |
| Heated length | mm | 1 |
| Connecting of connecting cable | mm | 2 |

Standard delivery includes: 2 pce, incl. anti-vibration mounts and self-limiting heating cable. An installation aid for a defined clearance dimension.

Installation accessories

SK 2



Bracket for installation on a strip foundation, white powder coated.

SK 2

| | SK 2 |
|----|--------|
| | 236693 |
| | |
| | |
| mm | 303 |
| kg | 91 |
| | 1 |

Standard delivery includes: 2 pce, incl. screws for securing the heat pump to the bracket.

HZB-1/2



Heating cable to keep the condensate drain of air source heat pumps frost-free. Self-limiting and flexible. Two copper wires serve as the supply cable. The outer jacket is constructed in UV- and moisture-resistant TPE-0.

HZB-1

| | | HZB-1 | HZB-2 |
|---|----|--------|--------|
| Part number | | 232978 | 232979 |
| | | | |
| Specification | | | |
| Rated output per metre at 10 °C outdoor air temperature | W | 10 | 10 |
| Heated length | mm | 1000 | 2000 |
| Rated voltage | V | 230 | 230 |
| Power supply | | 1/N/PE | 1/N/PE |
| Min. handling/installation temperature | °C | -45 | -45 |
| Max. ambient temperature | °C | 65 | 65 |
| Min. bending radius | cm | 2.50 | 2.50 |

Installation accessories

ZVK-WPL A

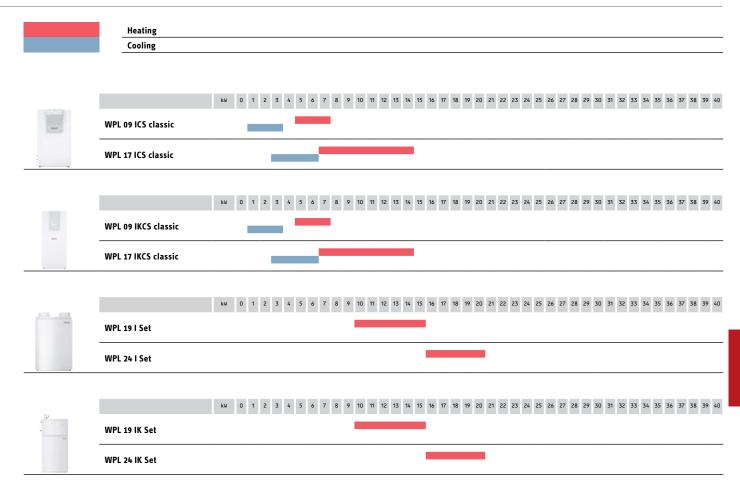


Corrosion-protected sheet metal casing, made from galvanised and powder coated sheet steel, for air source heat pumps installed outdoors.

Zubehör WPL 13/18/23 A

| | Zubehör WPL 13/18/23 A |
|---------------|------------------------|
| Part number | 074413 |
| | |
| Specification | |
| Colour | white |

Application areas



| 225 |
|-----|
| 229 |
| 232 |
| 233 |
| 235 |
| 238 |
| |

Inverter

WPL ICS classic



WPL 09 ICS classic

Benefits

- > Heating and cooling of new builds with an air source heat pump installed indoors.
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors
- > Straightforward connection: air hoses with quick-fit adaptors reduce installation effort
-) Improved room climate in summer with active cooling using circuit reversal
- > Easy and time saving installation with high level of integration
- Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump with output-dependent control and inverter technology is installed indoors. It can be used for heating and DHW operation, as well as efficient cooling via circuit reversal. Ideal for new builds or buildings with a low system temperature.

Convenience features • Very quiet operation due to encapsulated refrigerant circuit and acoustically isolated compressor. Fully automatic, weather-compensated control of the heating system by the integral heat pump manager. In combination with the optional Internet Service Gateway (ISG), the system can be controlled via the home network or a mobile device. With integral heat and electricity metering via refrigerant circuit data. • Automatic control of the integral heating circuit pump subject to the flow and return temperature. • The following components are integrated as standard: the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and the safety valve with discharge hose. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • The waste heat from the inverter is used to raise the return temperature, which increases the overall efficiency of the system. Demand-dependent, energy efficient defrosting through circuit reversal.

Installation • Direct connection to the heating system thanks to the integral anti-vibration mounts. Preassembled flexible air hoses with quick-fit adaptors simplify installation. The air hoses are connected on the top of the appliance. No manual trimming or sealing is necessary.







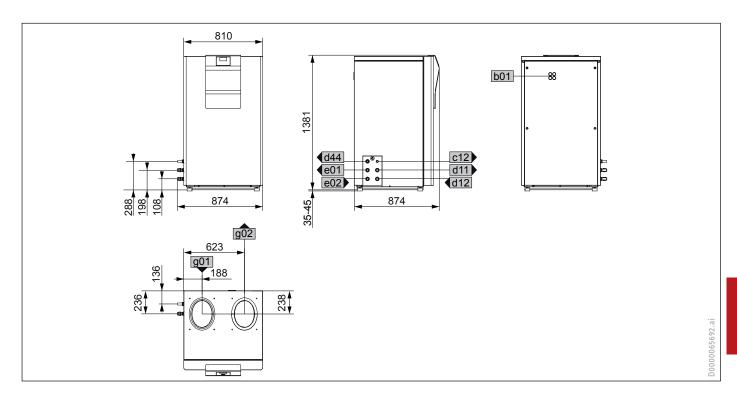


| | | WPL 09 ICS classic | WPL 17 ICS classic |
|--|----|--------------------|--------------------|
| Part number | | 236375 | 236376 |
| | | | |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 2.06 | 4.27 |
| Heating output at A2/W35 (EN 14511) | kW | 2.64 | 5.02 |
| Heating output at A-7/W35 (EN 14511) | kW | 4.23 | 8.02 |
| COP at A7/W35 (EN 14511) | | 4.68 | 4.74 |
| COP at A2/W35 (EN 14511) | | 3.83 | 3.83 |
| COP at A-7/W35 (EN 14511) | | 3.16 | 2.63 |
| Cooling capacity at A35/W18 partial load | kW | 1.85 | 3.60 |
| Max. cooling capacity at A35/ W18 | kW | 3.00 | 6.00 |

Inverter

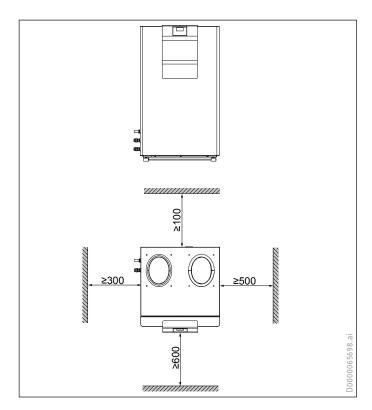
| | | WPL 09 ICS classic | WPL 17 ICS classic |
|---|-------|---|---|
| Cooling capacity factor at A35/ W18 partial load | | 3.96 | 2.78 |
| Max. cooling capacity factor at A35/W18 | | 2.22 | 1.83 |
| SCOP (EN 14825) | | 4.525 | 4.25 |
| Sound power level (EN 12102) | dB(A) | 45 | 51 |
| Min./max. application limits for heat source | °C | -20/35 | -20/35 |
| Max. application limit on the heating side | °C | 60 | 60 |
| Height | mm | 1381 | 1381 |
| Width | mm | 874 | 874 |
| Depth | mm | 874 | 874 |
| Weight | kg | 173 | 175 |
| Refrigerant | | R410A | R410A |
| Required accessories | | | |
| Part number | | 236931 | 236931 |
| Туре | | LSWP 315-2 S AWG SR Set | LSWP 315-2 S AWG SR Set |
| Description | | Air routing accessories, air intake/air discharge, including wall outlets and air hoses | Air routing accessories, air intake/air discharge, including wall outlets and air hoses |
| Recommended accessories | | | |
| Part number | | 229336 | 229336 |
| Type | | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway |
| DHW cylinder | | | |
| Part number | | 221360 | 221360 |
| Туре | | SBB 301 WP | SBB 301 WP |
| Description | | DHW cylinder | DHW cylinder |
| Part number | | 229981 | 229981 |
| Туре | | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 236684 | 236684 |
| Туре | | HSBC 200 L | HSBC 200 L |
| Description | | Integral cylinder | Integral cylinder |
| Part number | | 238826 | 238826 |
| Туре | | HSBC 300 L cool | HSBC 300 L cool |
| Description | | Integral cylinder | Integral cylinder |
| Buffer cylinder | | | |
| Part number | | 185458 | 185458 |
| Туре | | SBP 200 E | SBP 200 E |
| Description | | Buffer cylinder | Buffer cylinder |
| Part number | | 203763 | 203763 |
| Туре | | STH 210 Plus | STH 210 Plus |
| Description | | Buffer cylinder | Buffer cylinder |

The air routing accessories required for the air intake/air discharge are available in various lengths under accessories.



| | | WPL 09 ICS classic | WPL 17 ICS classic |
|---|----|--------------------|--------------------|
| b01 Entry electrical cables | | | |
| c12 Safety valve drain Diameter | mm | 22 | |
| d44 Outlet condensate drain Diameter | mm | 22 | 22 |
| e01 Heating flow Diameter | mm | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 |
| g01 Air intake Nominal diam- eter | | DN 315 | DN 315 |
| g02 Air discharge Nominal diameter | | DN 315 | DN 315 |

Minimum clearance diagram



Inverter

WPL IKCS classic



WPL 09 IKCS classic

Benefits

- > Heating and cooling of new builds with an air source heat pump installed indoors.
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors
- > Straightforward connection: air hoses with quick-fit adaptors reduce installation effort
- > Improved room climate in summer with active cooling using circuit reversal
- > Easy and time saving installation with high level of integration
-) Can be integrated into the home network and operated via a smartphone
-) Optimised air ducts for straightforward corner installation

Application • The air source heat pump with output-dependent control and inverter technology is installed indoors. It can be used for heating and DHW operation, as well as efficient cooling via circuit reversal. Ideal for new builds or buildings with a low system temperature. • Maximum flexibility in terms of siting, as the connection for outdoor and exhaust air can be made at the side or back. In addition, this type of air routing ensures lower sound emissions in the outdoor area.

Convenience features • Very quiet operation due to encapsulated refrigerant circuit and acoustically isolated compressor. Fully automatic, weather-compensated control of the heating system thanks to integral heat pump manager. In combination with the optional Internet Service Gateway (ISG), the system can be controlled via the home network or a mobile device. With integral heat and electricity metering via refrigerant circuit data. The integral heating circuit pump is controlled automatically subject to the flow and return temperatures. • The standard delivery includes the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with discharge hose. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • The waste heat from the inverter is used to raise the return temperature, which increases the overall efficiency of the system. This is further aided by on-demand defrosting through circuit reversal.

Installation • The heat pump can be connected directly to the heating system thanks to the integral anti-vibration mounts. Preassembled flexible air hoses with quick-fit adaptor simplify installation. No manual trimming or sealing is necessary.









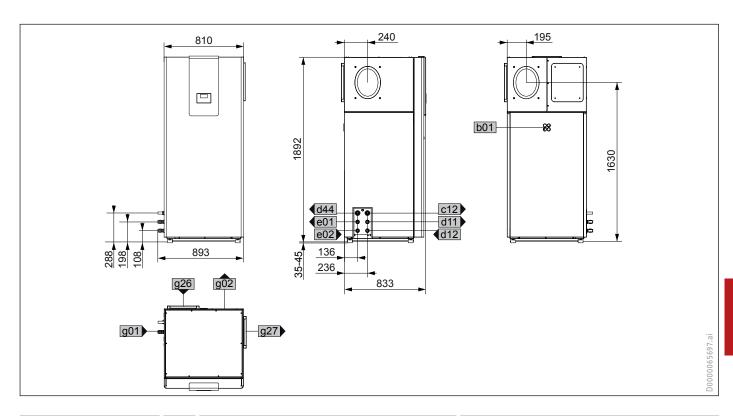
| | | WPL 09 IKCS classic | WPL 17 IKCS classic |
|--|----|---------------------|---------------------|
| Part number | | 236377 | 236378 |
| Curalfication | | | |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 2.06 | 4.22 |
| Heating output at A2/W35 (EN 14511) | kW | 2.62 | 4.95 |
| Heating output at A-7/W35 (EN 14511) | kW | 4.18 | 7.80 |
| COP at A7/W35 (EN 14511) | | 4.68 | 4.60 |
| COP at A2/W35 (EN 14511) | | 3.76 | 3.70 |
| COP at A-7/W35 (EN 14511) | | 3.07 | 2.58 |
| Cooling capacity at A35/W18 partial load | kW | 1.85 | 3.60 |
| Max. cooling capacity at A35/ W18 | kW | 3.00 | 6.00 |

Inverter

| Cooling capacity factor at A35/With B partial load 3.68 2.88 Max. cooling capacity factor at A35/With B partial load 2.02 1.63 Max. cooling capacity factor at A35/With B partial load 4.04 4.125 SCOP (EN 1822) dB(A) 4.05 5.00 Sound power level (EN 12102) dB(A) 4.05 5.00 Min./max. application limits on the heating side "C 6.00 6.00 Height mm 8.93 8.93 8.93 Depth mm 8.93 8.93 8.93 Depth mm 8.93 8.93 8.93 Refrigerant kg 2.19 2.21 2.21 Refrigerant kg 2.19 2.21 | | | WPL 09 IKCS classic | WPL 17 IKCS classic |
|---|-----------------|--|---------------------|---------------------|
| National Properties National Properties | | | 3.76 | 2.58 |
| Sound power level (EN 12102) dB(A) 45 50 Min. max. application limits for heat source "C -20/35 -20/35 Max. application limit on the setting side "C 60 60 Height mm 1892 1892 Height mm 8833 8833 Depth mm 8833 833 Depth mm 833 833 Weight kg 219 221 Refrigerant "C RA10A RA10A Recommended accessories "C TR TR Recommended accessories "C TS TS </td <td></td> <td></td> <td>2.02</td> <td>1.63</td> | | | 2.02 | 1.63 |
| Min. max. application limits for heating side °C 20/35 20/35 Max. application limit on the heating side °C 60 60 Height mm 1892 1892 Width mm 893 893 Depth mm 833 833 Weight kg 219 221 Refrigerant kg 219 221 Refrigerant Commended accessories Lescories Lescories Lescories Lescories Lescories Lescories L | SCOP (EN 14825) | | 4.45 | 4.125 |
| heat source ' hand, application limit on the heating side °C 60 60 Height mm 1892 1892 Width mm 893 893 Depth mm 803 833 Weight kg 219 221 Refrigerant R410A R410A R410A Recommended accessories Certain Part number 22936 229336 Type S65 web 156 web 156 web Description Internet Service Gateway Internet Service Gateway DHW cylinder Certain Part number 2936 22936 | | | | |

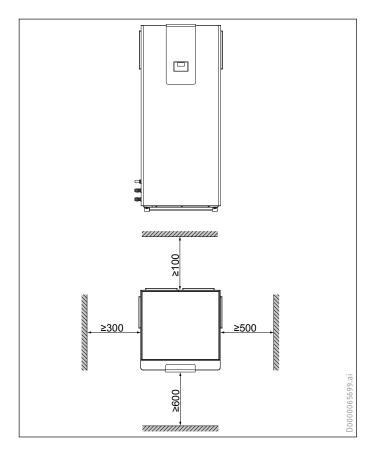
The air routing accessories required for the air intake/air discharge are available in various lengths under accessories.

Product information - Subject to technical modifications.



| | | WPL 09 IKCS classic | WPL 17 IKCS classic |
|--|----|---------------------|---------------------|
| b01 Entry electrical cables | | | |
| c12 Safety valve drain Diameter | mm | 22 | 22 |
| d44 Outlet condensate drain Diameter | mm | 22 | 22 |
| e01 Heating flow Diameter | mm | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 |
| g01 Air intake Nominal diam- eter | | DN 315 | DN 315 |
| g02 Air discharge Nominal diameter | | DN 315 | DN 315 |
| g26 Air intake optional Nominal diameter | | DN 315 | DN 315 |
| g27 Air discharge optional Nominal diameter | | DN 315 | DN 315 |

Minimum clearance diagram



WPL ICS/IKCS classic comfort Set



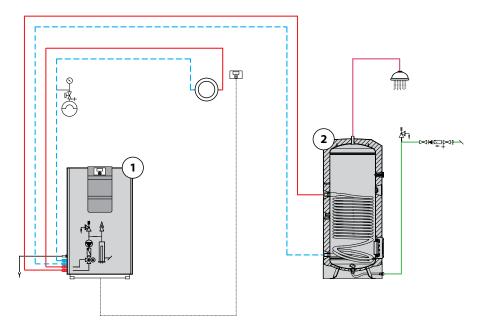
WPL 09 ICS classic comfort Set

Benefits

- > The air source heat pump set is installed indoors and is remarkably quiet in operation
- > High DHW convenience due to separate DHW cylinder
- Heat pump including hydraulic components and heat pump manager pre-installed for direct heating circuit connection with a separate DHW cylinder
- > Top-mounted casing for excellent noise reduction and space saving corner installation (Product: 236734, 236735)

Application • Mono block heat pump with output-dependent control, in combination with a DHW cylinder for increased DHW convenience. • All components are installed indoors, so that only minimal operating noise occurs in the outdoor area. • The following components are already integrated: cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve, electric emergency/auxiliary heater and the heat pump manager for controlling the system.

| | WPL 09 ICS classic comfort | WPL 09 IKCS classic com- | WPL 17 ICS classic comfort | WPL 17 IKCS classic com- |
|-------------|----------------------------|--------------------------|----------------------------|--------------------------|
| | Set | fort Set | Set | fort Set |
| Part number | 236730 | 236734 | 236731 | 236735 |



| Set components | | WPL 09 ICS classic comfort Set | WPL 09 IKCS classic com- fort Set | WPL 17 ICS classic comfort Set | WPL 17 IKCS classic com- fort Set |
|----------------|------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|
| 1 | Type | WPL 09 ICS classic | WPL 09 IKCS classic | WPL 17 ICS classic | WPL 17 IKCS classic |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 2 | Type | SBB 301 WP | SBB 301 WP | SBB 301 WP | SBB 301 WP |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

Further information about the set components can be found under the respective product.

WPL ICS/IKCS classic compact plus Set



WPL 09 ICS classic compact plus Set

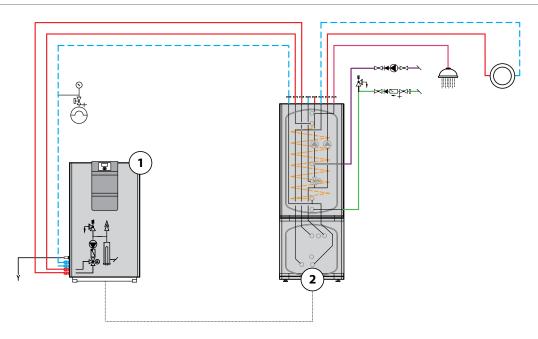
Benefits

- > The air source heat pump set is installed indoors and is remarkably quiet in operation
- > Thanks to flow separation, the heating system can be integrated easily and very safely
- > DHW cylinder and buffer cylinder with integral hydraulic components including heat pump manager for heat pumps and heating circuit connection in a single casing
- Top-mounted casing for excellent noise reduction and space saving corner installation (Product: 236732, 236733)

Application • Mono block heat pump with output-dependent control, with highly integrated indoor unit for rapid, space saving installation. • Can be used in a wide range of heat distribution systems, because the heat pump is separated from the heat distribution system by an integral buffer cylinder. • The following components are already integrated: cylinder charging pump, heating circuit pump, 3/2-way diverter valve, safety valve, electric emergency/ auxiliary heater and the heat pump manager for controlling the system. The DHW cylinder and parallel buffer cylinder with heating circuit pump form part of the separate integral cylinder.

| | WPL 09 ICS classic compact plus Set | WPL 09 IKCS classic com- pact plus Set | | WPL 17 IKCS classic com- pact plus Set |
|-------------|-------------------------------------|---|--------|---|
| Part number | 236728 | 236732 | 236729 | 236733 |

Inverter



| Set components | | WPL 09 ICS classic compact plus Set | WPL 09 IKCS classic com- pact plus Set | WPL 17 ICS classic compact plus Set | WPL 17 IKCS classic com- pact plus Set |
|----------------|------|-------------------------------------|---|-------------------------------------|---|
| 1 | Type | WPL 09 ICS classic | WPL 09 IKCS classic | WPL 17 ICS classic | WPL 17 IKCS classic |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |
| 2 | Type | HSBC 200 L | HSBC 200 L | HSBC 200 L | HSBC 200 L |
| | Pce | 1 | 1 | 1 | 1 |
| | Page | | | | |

Further information about the set components can be found under the respective product.

Inverter

WPL 19/24 I



WPL 19 | Set

Benefits

- > The air source heat pump is suitable for heating older buildings
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Even at low outside temperatures, the enhanced (saturated) vapour injection achieves a high flow temperature
- > Optimised for replacement of 13/18/23 E air source heat pumps that are installed indoors
- > Because of the high flow temperature all year round, also suitable for modernisation projects and for DHW heating
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
-) Can be integrated into the home network and operated via a smartphone
-) Low operating costs as mono mode DHW heating is possible
- > Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors

Application • The output-controlled air source heat pump with inverter technology is installed indoors and is also suitable for densely built-up areas due to its low noise emissions. It can be used for modernisation, since it provides a flow temperature of up to 65 °C all year round for heating operation and DHW heating.

Convenience features • Very quiet operation due to the encapsulated refrigerant circuit and acoustically isolated compressor. The modulating fan and the wide gaps between the evaporator fins, which create low air resistance, also help to minimise the sound power level. • With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation possible with emergency/auxiliary heater. • The metal casing is corrosion-protected. It is made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • High flow temperature all year round according to demand, as the combined enhanced vapour injection/ enhanced saturated vapour injection cools the scroll compressor at low outside temperatures. This allows operation without an auxiliary heater. • The waste heat from the inverter is used to raise the return temperature, which increases the overall efficiency of the system. This is further aided by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit.

Installation • The heat pump with integral anti-vibration mounts is directly connected to the heating system.











| | | WPL 19 I Set | WPL 24 I Set |
|--|-------|--------------|--------------|
| Part number | | 235193 | 235194 |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 6.70 | 7.41 |
| Heating output at A2/W35 (EN 14511) | kW | 7.41 | 9.04 |
| Heating output at A-7/W35 (EN 14511) | kW | 9.91 | 13.45 |
| COP at A7/W35 (EN 14511) | | 4.99 | 4.72 |
| COP at A2/W35 (EN 14511) | | 4.12 | 4.00 |
| COP at A-7/W35 (EN 14511) | | 3.32 | 3.00 |
| SCOP (EN 14825) | | 4.60 | 4.575 |
| Sound power level (EN 12102) | dB(A) | 54 | 54 |
| Min./max. application limits for heat source | °C | -20/40 | -20/40 |
| Max. application limit on the heating side | °C | 65 | 65 |
| Height | mm | 1182 | 1182 |

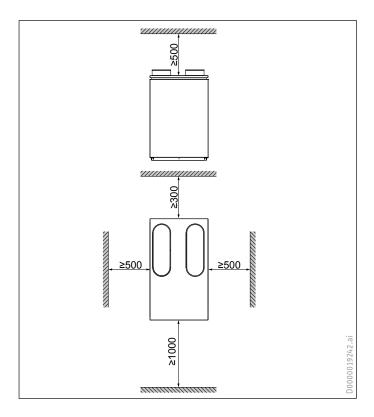
Inverter

| | | WPL 19 I Set | WPL 24 I Set |
|-----------------------------|----|---|---|
| Width | mm | 800 | 800 |
| Depth | mm | 1240 | 1240 |
| Weight | kg | 289 | 289 |
| Weight (standard appliance) | kg | 201 | 201 |
| Refrigerant | 5 | R410A | R410A |
| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Required accessories | | | |
| Part number | | 201721 | 201721 |
| Type | | LSWP 560-3 SG | LSWP 560-3 SG |
| Description | | Thermally and sound insulated air hose | Thermally and sound insulated air hose |
| Part number | | 233837 | 233837 |
| Туре | | AWG 560 H-SR | AWG 560 H-SR |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated |
| Recommended accessories | | | |
| Part number | | 229336 | 229336 |
| | | ISG web | ISG web |
| Type Description | | Internet Service Gateway | Internet Service Gateway |
| Part number | | 231041 | 231041 |
| | | AWG 560 L | AWG 560 L |
| Type | | | |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated |
| Part number | | 232805 | 232805 |
| Type | | HM Trend | HM Trend |
| Description | | Hydraulic module | Hydraulic module |
| Part number | | 232956 | 232956 |
| Type | | AWG 560 H-GL | AWG 560 H-GL |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated |
| Part number | | 233826 | 233826 |
| Туре | | HMS Trend | HMS Trend |
| Description | | Hydraulic module | Hydraulic module |
| DHW cylinder | | | |
| Part number | | 203801 | 203801 |
| Туре | | HSBC 300 cool | HSBC 300 cool |
| Description | | Integral cylinder | Integral cylinder |
| Part number | | 221360 | 221360 |
| Туре | | SBB 301 WP | SBB 301 WP |
| Description | | DHW cylinder | DHW cylinder |
| Part number | | 229981 | 229981 |
| Туре | | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 233510 | 233510 |
| Type | | HSBC 200 | HSBC 200 |
| Description | | | |
| Part number | | Integral cylinder | Integral cylinder |
| | | 234801 HSBC 200 S | 234801 HSBC 200 S |
| Type Description | | Integral cylinder | Integral cylinder |
| | | 9) | 9 |
| Buffer cylinder | | | |
| Part number | | 185458 | 185458 |
| Type | | SBP 200 E | SBP 200 E |
| Description | | Buffer cylinder | Buffer cylinder |
| Part number | | 203763 | 203763 |
| Туре | | STH 210 Plus | STH 210 Plus |
| Description | | Buffer cylinder | Buffer cylinder |

Wall outlets must be ordered separately and are available as accessories in various versions.

The air hoses required are available as accessories.

Minimum clearance diagram



Inverter

WPL 19/24 IK



WPL 19 IK Set

Benefits

- > The air source heat pump is suitable for heating older buildings
- Inverter technology allows ideally matched heating output through the variable speed compressor
- > Even at low outside temperatures, the enhanced (saturated) vapour injection achieves a high flow temperature
-) Optimised for replacement of 13/18/23 E air source heat pumps that are installed indoors
- > Because of the high flow temperature all year round, also suitable for modernisation projects and for DHW heating
- > Quiet operation thanks to encapsulated refrigerant circuit and variable matched fan speed
-) Low operating costs as mono mode DHW heating is possible
- Can be integrated into the home network and operated via a smartphone
- > Suitable for densely built-up areas, as it is installed indoors and so produces virtually no sound emissions outdoors

Application • The output-controlled air source heat pump with inverter technology is installed indoors and is also suitable for densely built-up areas due to its low noise emissions. Can be used for modernisation, since it provides a flow temperature of up to 65 °C all year round for heating operation and DHW heating.

Convenience features • Very quiet operation due to the encapsulated refrigerant circuit and acoustically isolated compressor. The modulating fan and the wide gaps between the evaporator fins, which create low air resistance, also help to minimise the sound power level. • With integral heat and electricity metering via refrigerant circuit data. • Mono energetic operation possible with emergency/auxiliary heater. • The metal casing is corrosion-protected. It is made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • High flow temperature all year round according to demand, as the combined enhanced vapour injection/ enhanced saturated vapour injection cools the scroll compressor at low outside temperatures. This allows operation without an auxiliary heater. • The waste heat from the inverter is used to raise the return temperature. In addition, the overall efficiency of the system is increased by on-demand defrosting through circuit reversal and heating of the condensate pan by the refrigerant circuit. • The hydrophilic coating on the fan nozzle prevents ice from forming, meaning that no electric heating is required.

Installation • The heat pump with integral anti-vibration mounts is directly connected to the heating system. • Quick corner installation thanks to the supplied compact air routing module WPIC with pre-installed air hoses on the air intake and discharge, controller and hydraulic components.









| | | WPL 19 IK Set | WPL 24 IK Set |
|--|-------|---------------|---------------|
| Part number | | 235878 | 235879 |
| | | | |
| Specification | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ |
| Heating output at A7/W35 (EN 14511) | kW | 6.70 | 7.41 |
| Heating output at A2/W35 (EN 14511) | kW | 7.41 | 9.04 |
| Heating output at A-7/W35 (EN 14511) | kW | 9.91 | 13.45 |
| COP at A7/W35 (EN 14511) | | 4.99 | 4.72 |
| COP at A2/W35 (EN 14511) | | 4.12 | 4.00 |
| COP at A-7/W35 (EN 14511) | | 3.32 | 3.00 |
| SCOP (EN 14825) | | 4.60 | 4.575 |
| Sound power level (EN 12102) | dB(A) | 52 | 51 |

Inverter

| | | WPL 19 IK Set | WPL 24 IK Set |
|--|----|---|---|
| Min./max. application limits for heat source | °C | -20/40 | -20/40 |
| Max. application limit on the heating side | °C | 65 | 65 |
| Height | mm | 1820 | 1820 |
| Width | mm | 800 | 800 |
| Depth | mm | 1240 | 1240 |
| Weight | kg | 373 | 373 |
| Weight (standard appliance) | kg | 201 | 201 |
| Weight (compact air routing module) | kg | 80 | 80 |
| Refrigerant | | R410A | R410A |
| Required accessories | | | |
| Part number | | 233837 | 233837 |
| Type | | AWG 560 H-SR | AWG 560 H-SR |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated |
| Recommended accessories | | | |
| Part number | | 229336 | 229336 |
| Type | | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway |
| Part number | | 231041 | 231041 |
| Type | | AWG 560 L | AWG 560 L |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated |
| Part number | | 232956 | 232956 |
| Туре | | AWG 560 H-GL | AWG 560 H-GL |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated |
| DHW cylinder | | | |
| Part number | | 221360 | 221360 |
| Type | | SBB 301 WP | SBB 301 WP |
| Description | | DHW cylinder | DHW cylinder |
| Part number | | 229981 | 229981 |
| Type | | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 238826 | 238826 |
| Type | | HSBC 300 L cool | HSBC 300 L cool |
| Description | | Integral cylinder | Integral cylinder |
| Buffer cylinder | | | |
| Part number | | 185458 | 185458 |
| Type | | SBP 200 E | SBP 200 E |
| Description | | Buffer cylinder | Buffer cylinder |
| Part number | | 203763 | 203763 |
| Туре | | STH 210 Plus | STH 210 Plus |
| | | | |

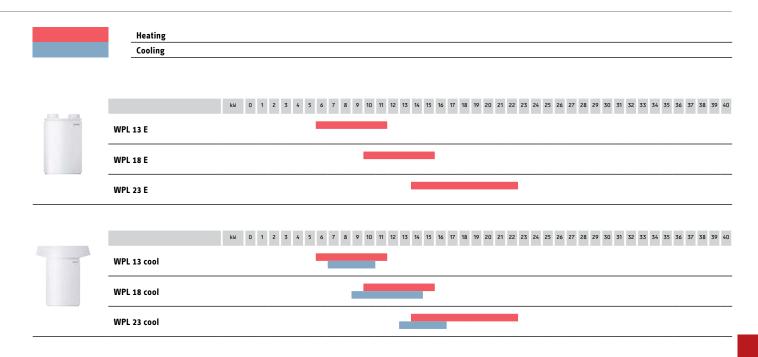
Standard delivery includes: air routing module WPIC

Wall outlets must be ordered separately and are available as accessories in various versions. Wall outlets must be ordered separately and are available as accessories in various versions. (Product: 235878, 235879)

| ۱ir | source | heat | pumps, | indoor | in stall at ion | - inverter | |
|-----|--------|------|--------|--------|-----------------|------------|--|
| nv | erter | | | | | | |

Air source heat pumps, indoor installation – fixed speed

Application areas





Air source heat pumps, indoor installation - fixed speed

Fixed speed

WPL 13-23 E



WPL 13 E

Benefits

-) Air source heat pump for heating
- > High heating output at low outside temperatures through enhanced vapour injection
- > Higher COP through optimised refrigerant circuit
- > Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump for heating and DHW can be installed either outdoors or indoors as a mono block and has enhanced vapour injection.

Convenience features • Quiet operation thanks to twin anti-vibration compressor mounts. • Enhanced vapour injection cools the scroll compressor at low outside temperatures, thereby achieving a higher heating output. • In combination with the ISG Internet Service Gateway, the on-site heat pump controller can be used to control the system in the home network or via a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • An emergency/auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C

Efficiency • Time optimised and energy efficient defrosting through circuit reversal with a 4/2-way valve. • For efficient defrosting, the condensate pan is also heated by the refrigerant circuit.

Installation • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.





| | | WPL 13 E | WPL 18 E | WPL 23 E |
|--|-------|----------|----------|----------|
| Part number | | 227756 | 227757 | 227758 |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A++ | A++ | A+ |
| Energy efficiency class, heat pump W55 | | A+ | A+ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A+ | A+ |
| Heating output at A7/W35 (EN 14511) | kW | 8.93 | 12.90 | 16.56 |
| Heating output at A2/W35 (EN 14511) | kW | 8.09 | 11.30 | 15.73 |
| Heating output at A-7/W35 (EN 14511) | kW | 6.77 | 9.72 | 13.21 |
| COP at A7/W35 (EN 14511) | | 4.35 | 4.46 | 3.99 |
| COP at A2/W35 (EN 14511) | | 3.76 | 3.73 | 3.62 |
| COP at A-7/W35 (EN 14511) | | 3.20 | 3.27 | 3.14 |
| SCOP (EN 14825) | | 3.85 | 4.00 | 3.775 |
| Sound power level (EN 12102) | dB(A) | 64 | 65 | 65 |
| Sound power level, outdoor installation (EN 12102) | dB(A) | 64 | 65 | 65 |
| Min./max. application limits for heat source | °C | -2040 | -2040 | -2040 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 |
| Height | mm | 1116 | 1116 | 1116 |
| Width | mm | 784 | 784 | 784 |
| Depth | mm | 1182 | 1182 | 1182 |

Air source heat pumps, indoor installation – fixed speed Fixed speed

| | | WPL 13 E | WPL 18 E | WPL 23 E |
|--|----|---|--|---|
| Weight | kg | 205 | 212 | 211 |
| Rated voltage, compressor | ٧ | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 |
| Rated voltage, control unit | V | 230 | 230 | 230 |
| Refrigerant | | R407C | R407C | R407C |
| Colour | | white | white | |
| Required accessories | | | | |
| Part number | | 074412 | 074412 | 074412 |
| Type | | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I |
| Description | | Casing components for indoor instal- lation | Casing components for indoor instal- lation | Casing components for indoor instal- lation |
| Part number | | 074413 | 074413 | 074413 |
| Туре | | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A |
| Description | | Casing components for outdoor in- stallation | Casing components for outdoor installation | Casing components for outdoor in- stallation |
| Part number | | 201721 | 201721 | 201721 |
| Туре | | LSWP 560-3 SG | LSWP 560-3 SG | LSWP 560-3 SG |
| Description | | Thermally and sound insulated air hose | Thermally and sound insulated air hose | Thermally and sound insulated air hose |
| Part number | | 233837 | 233837 | 233837 |
| Type | | AWG 560 H-SR | AWG 560 H-SR | AWG 560 H-SR |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insu- lated | External wall outlet, thermally insu- lated |
| Recommended accessories | | | | |
| Part number | | 229336 | 229336 | 229336 |
| Туре | | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 | |
| Туре | | HM Trend | HM Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| Part number | | 233826 | 233826 | |
| Type | | HMS Trend | HMS Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| DHW cylinder | | | | |
| Part number | | 203801 | 203801 | |
| Type | | HSBC 300 cool | HSBC 300 cool | |
| Description | | Integral cylinder | Integral cylinder | |
| Part number | | 221360 CRR 201 WR | | |
| Type Description | | SBB 301 WP | | |
| Part number | | DHW cylinder | 221361 | 221361 |
| Type | | | SBB 302 WP | SBB 302 WP |
| Description | | | DHW cylinder | DHW cylinder |
| Part number | | | 211W cyllinder | 221362 |
| Type | | | | SBB 401 WP SOL |
| Description | | | | DHW cylinder |
| Part number | | 229981 | 229981 | 229981 |
| Туре | | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 233510 | 233510 | |
| Type | | HSBC 200 | HSBC 200 | |
| Description | | Integral cylinder | Integral cylinder | |
| Part number | | 234801 | 234801 | |
| Туре | | HSBC 200 S | HSBC 200 S | |
| Description | | Integral cylinder | Integral cylinder | |

Air source heat pumps, indoor installation - fixed speed

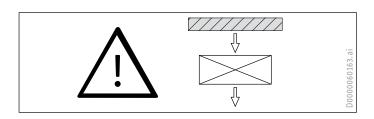
Fixed speed

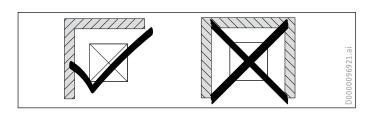
| | WPL 13 E | WPL 18 E | WPL 23 E |
|-----------------|-----------------|-----------------|-----------------|
| Buffer cylinder | | | |
| Part number | 185458 | | |
| Туре | SBP 200 E | | |
| Description | Buffer cylinder | | |
| Part number | 203763 | | |
| Туре | STH 210 Plus | | |
| Description | Buffer cylinder | | |
| Part number | 203764 | 203764 | 203764 |
| Туре | STH 415 Plus | STH 415 Plus | STH 415 Plus |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder |
| Part number | | 220824 | 220824 |
| Туре | | SBP 400 E | SBP 400 E |
| Description | | Buffer cylinder | Buffer cylinder |

The housing required for indoor or outdoor installation is available as an accessory.

Wall outlets and air hoses for indoor installation must be ordered separately and are available as accessories in various versions. Preliminary specification (Product: 227756, 227758)

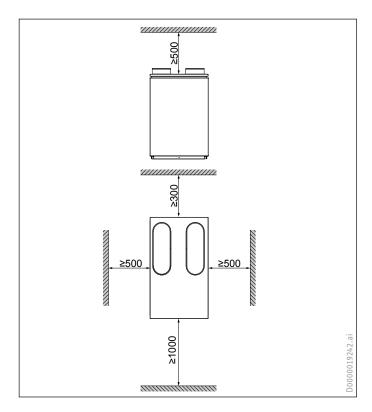
Installation conditions





Fixed speed

Minimum clearance diagram



Air source heat pumps, indoor installation - fixed speed

Fixed speed

WPL 13-23 cool



WPL 13 cool

Benefits

- › Air source heat pump for heating and cooling
- > High heating output at low outside temperatures through enhanced vapour injection
- > Higher COP through optimised refrigerant circuit
- › Active cooling through circuit reversal
- > Can be integrated into the home network and operated via a smartphone

Application • The air source heat pump can be installed either outdoors or indoors as a mono block and has enhanced vapour injection. • It can be used for heating and DHW operation, as well as for efficient cooling through circuit reversal.

Convenience features • Quiet operation thanks to twin anti-vibration compressor mounts. • Enhanced vapour injection cools the scroll compressor at low outside temperatures, thereby achieving a higher heating output. • The built-in 4/2-way valve allows the refrigerant circuit to be switched from heating to cooling mode. • In combination with the ISG Internet Service Gateway, the on-site heat pump controller can be used to control the system in the home network or via a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • An emergency/ auxiliary heater enables mono energetic operation. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R407C

Efficiency • Time optimised and energy efficient defrosting through circuit reversal with a 4/2-way valve. • For efficient defrosting, the condensate pan is also heated by the refrigerant circuit.

Installation • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.



| | | WPL 13 cool | WPL 18 cool | WPL 23 cool |
|--|-------|-------------|-------------|-------------|
| Part number | | 223400 | 223401 | 223402 |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A+ | A++ | A+ |
| Energy efficiency class, heat pump W55 | | A+ | A+ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A++ | A++ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A++ | A+ |
| Heating output at A7/W35 (EN 14511) | kW | 9.01 | 12.30 | 14.45 |
| Heating output at A2/W35 (EN 14511) | kW | 8.10 | 11.30 | 14.14 |
| Heating output at A-7/W35 (EN 14511) | kW | 6.60 | 9.72 | 12.27 |
| COP at A7/W35 (EN 14511) | | 4.00 | 4.30 | 3.52 |
| COP at A2/W35 (EN 14511) | | 3.40 | 3.70 | 3.23 |
| COP at A-7/W35 (EN 14511) | | 3.00 | 3.20 | 2.91 |
| SCOP (EN 14825) | | 3.75 | 4.075 | 3.475 |
| Sound power level (EN 12102) | dB(A) | 64 | 65 | 65 |
| Sound power level, outdoor installation (EN 12102) | dB(A) | 62 | 65 | 65 |
| Min./max. application limits for heat source | °C | -2040 | -2040 | -2040 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 |
| Height | mm | 1116 | 1116 | 1116 |
| Width | mm | 784 | 784 | 784 |
| Depth | mm | 1182 | 1182 | 1182 |

Air source heat pumps, indoor installation – fixed speed Fixed speed

| | | WPL 13 cool | WPL 18 cool | WPL 23 cool |
|--|----|---|--|---|
| Weight | kg | 210 | 214 | 220 |
| Rated voltage, compressor | V | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 |
| Rated voltage, control unit | ٧ | 230 | 230 | 230 |
| Refrigerant | | R407C | R407C | R407C |
| Colour | | white | white | |
| Required accessories | | | | |
| Part number | | 074412 | 074412 | 074412 |
| Туре | | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I | Zubehör WPL 13/18/23 I |
| Description | | Casing components for indoor instal- lation | Casing components for indoor instal- lation | Casing components for indoor instal- lation |
| Part number | | 074413 | 074413 | 074413 |
| Туре | | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A | Zubehör WPL 13/18/23 A |
| Description | | Casing components for outdoor in- stallation | Casing components for outdoor installation | Casing components for outdoor in- stallation |
| Part number | | 201721 | 201721 | 201721 |
| Туре | | LSWP 560-3 SG | LSWP 560-3 SG | LSWP 560-3 SG |
| Description | | Thermally and sound insulated air hose | Thermally and sound insulated air hose | Thermally and sound insulated air hose |
| Part number | | 233837 | 233837 | 233837 |
| Type | | AWG 560 H-SR | AWG 560 H-SR | AWG 560 H-SR |
| Description | | External wall outlet, thermally insulated | External wall outlet, thermally insulated | External wall outlet, thermally insu- lated |
| Recommended accessories | | | | |
| Part number | | 229336 | 229336 | 229336 |
| Type | | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 232805 | 232805 | |
| Туре | | HM Trend | HM Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| Part number | | 233826 | 233826 | |
| Type | | HMS Trend | HMS Trend | |
| Description | | Hydraulic module | Hydraulic module | |
| DHW cylinder | | | | |
| Part number | | 221360 | | |
| Type | | SBB 301 WP | | |
| Description Part number | | DHW cylinder | 221361 | 221361 |
| Type | | | SBB 302 WP | SBB 302 WP |
| Description | | | DHW cylinder | DHW cylinder |
| Part number | | | Bitti cymiaet | 221362 |
| Type | | | | SBB 401 WP SOL |
| Description | | | | DHW cylinder |
| Buffer cylinder | | | | |
| Part number | | 185458 | | |
| Type | | SBP 200 E | | |
| Description | | Buffer cylinder | | |
| Part number | | 203763 | | |
| Туре | | STH 210 Plus | | |
| Description | | Buffer cylinder | | |
| Part number | | | 203764 | 203764 |
| Туре | | | STH 415 Plus | STH 415 Plus |
| Description | | | Buffer cylinder | Buffer cylinder |

Air source heat pumps, indoor installation – fixed speed

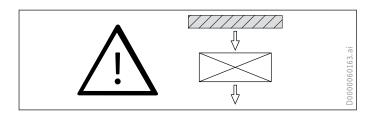
Fixed speed

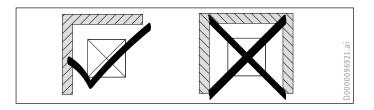
| | WPL 13 cool | WPL 18 cool | WPL 23 cool |
|-------------|-------------|-----------------|-----------------|
| Part number | | 220824 | 220824 |
| Type | | SBP 400 E | SBP 400 E |
| Description | | Buffer cylinder | Buffer cylinder |

The housing required for indoor or outdoor installation is available as an accessory.

Wall outlets and air hoses for indoor installation must be ordered separately and are available as accessories in various versions.

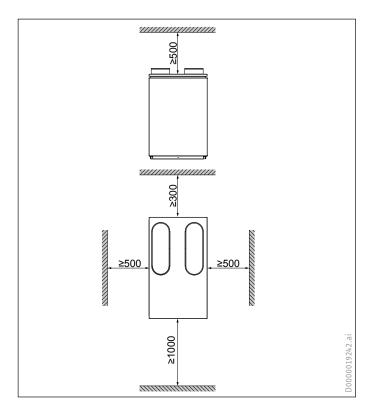
Installation conditions

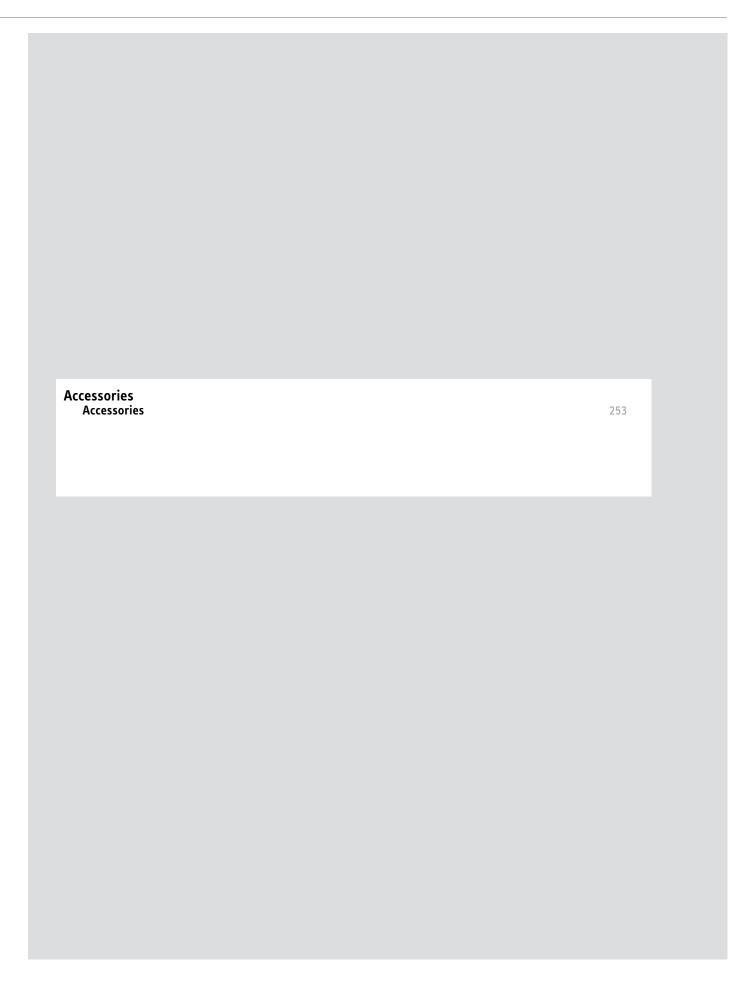




Fixed speed

Minimum clearance diagram





Accessories

LSWP AWG Set



Connection set for installing the air routing (supply and exhaust air) of a heat pump installed indoors. Quick and easy installation. Includes an air hose with quick-fit adaptors prefitted at both ends and the wall outlet to be sealed in with foam.

LSWP 315-2 S AWG SR Set

| | | LSWP 315-2 S AWG SR Set |
|--------------------------|----|-------------------------|
| Part number | | 236931 |
| | | |
| Specification | | |
| Length | mm | 2.00 |
| Nominal diameter | mm | 315 |
| Colour of air hose | | silver-metallic |
| Colour of weather grille | | metallic silver |
| Version | | With weather grille |

Standard delivery includes: wall outlet, air hose, quick-fit adaptors

ZSA



 ${\sf EPS\ quick-fit\ adaptor\ for\ attaching\ air\ hoses\ to\ the\ appliance \& apos; s\ air\ connections.}$

ZSA 315

| | ZSA 315 |
|-------------|---------|
| Part number | 236934 |

Standard delivery includes: quick-fit adaptor, fixing screws, hose clips for the internal and external hose.

Accessories

AWG WP



Benefits

- > Condensate run marks on the face panel are prevented by a wide drip edge on the frame
-) Integral rodent guard prevents small animals and leaves getting in
- Good protection from weather and low pressure losses, thanks to optimised fin geometry

The thermally insulated external wall outlet is suitable for air routing for integral systems and air source heat pumps installed indoors. The length can be adjusted to suit the wall thickness thanks to telescopic technology.

AWG 560 L

| | | AWG 560 L | AWG 600 L | AWG 560 H-GL | AWG 560 V-GL | AWG 560 H-SR | AWG 560 V-SR |
|----------------------|------|---|---------------------------|---|---|--|---|
| Part number | | 231041 | 231044 | 232956 | 232957 | 233837 | 233838 |
| | | | | | | | |
| Specification | | | | | | | |
| Height | mm | 477 | 647 | 490 | 894 | 490 | 894 |
| Width | mm | 878 | 649 | 897 | 483 | 897 | 483 |
| Depth | mm | 625 | 525 | 627 | 627 | 627 | 627 |
| Nominal diameter | mm | 560 | 560 | 560 | 560 | 560 | 560 |
| Wall thickness | mm | 280 - 500 | 260 - 400 | 280 - 500 | 280 - 500 | 280 - 500 | 280 - 500 |
| Min. outlet aperture | mm | 830x430 | 600x600 | 830x430 | 430x830 | 830x430 | 430x830 |
| Max. air flow rate | m³/h | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 |
| Colour | | Aluminium, an- odised | Aluminium, an- odised | RAL 9006 | RAL 9006 | silver-metallic | silver-metallic |
| Material | | Sheet steel | Sheet steel | Sheet steel | Sheet steel | Sheet steel | Sheet steel |
| Version | | For light well version | For light well version | Horizontal with grey painted weather grille | Vertical with grey painted weather grille | Horizontal weath- er grille painted in metallic silver | Vertical with grey painted weather grille |
| Required accessories | | | | | | | |
| Part number | | 232342 | | | | | |
| Type | | LLB AWG 560 L | | | | | |
| Description | | Air deflector for light well grille | | | | | |

Accessories

LLB AWG



Benefits

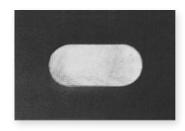
› Quick and easy to install

The aluminium air deflector is installed in a light well and directs exhaust air expelled from a building away from the external wall. This reduces the formation of moisture from condensation. The width of the deflector can be adjusted to the light well.

LLB AWG 315 L

| | | LLB AWG 315 L | LLB AWG 560 L |
|------------------|----|---------------|---------------|
| Part number | | 232341 | 232342 |
| Specification | | | |
| Height | mm | 128 | 128 |
| Length Colour | mm | 900 | 1,500 |
| Colour | | Aluminium | Aluminium |

SAPI



Hose connection panel for fitting on standard cellar window. Thermally insulated, with collar and hose clips for joining the hose to the wall outlet.

Schlauchanschlussplatte 560 oval

| | | Schlauchanschlussplatte 560 oval |
|----------------|----|----------------------------------|
| Part number | | 003478 |
| | | |
| Specification | | |
| Height | mm | 780 |
| Width | mm | 1200 |
| Air connection | mm | 560 |

Accessories

LSWP



Benefits

- > Good sound insulation thanks to a 50 mm layer of acoustic insulating material
- > Prevents condensation forming on the outer cover

Application • The thermally and sound insulated flexible air hose is suitable for routing the outdoor and exhaust air to/from an air source heat pump installed indoors. • The outer sheath is made from aluminium laminate, the inner sheath from polypropylene cloth, and the intermediate layer from mineral wool, providing thermal and sound insulation. The hose ends can be shaped into ovals for easier fitting.

LSWP 560-3 SG

| | | LSWP 560-3 SG | LSWP 560-4 S | LSWP 560-4 SG |
|------------------------------|----|-------------------|---------------------------------|-------------------|
| Part number | | 201721 | 234647 | 201619 |
| | | | | |
| Specification | | | | |
| Nominal diameter | mm | 560 | 560 | 560 |
| Length | mm | 3000 | 4000 | 4000 |
| Thermal insulation thickness | mm | 50 | 50 | 50 |
| Colour of air hose | | Grey outer sheath | Aluminium-coloured outer sheath | Grey outer sheath |

PK 10



Application • Condensate pump for ventilation units and heat pumps installed indoors. • The appliance features an integral condensate collecting vessel and can be installed horizontally on the floor or the wall.• Integral alarm contact, for activating an indicator lamp or warning sound or switching off the connected main appliance. An additional float prevents the collecting vessel from overflowing. • Pressure hose and power cable are included in the standard delivery.

PK 10

| | | PK 10 |
|-----------------------|-----|--------------|
| Part number | | 229286 |
| | | |
| Specification | | |
| Max. delivery volume | l/h | 500 |
| Max. delivery head | m | 5 |
| Height | mm | 171 |
| Width | mm | 279 |
| Depth | mm | 130 |
| Weight | kg | 2 |
| Electrical connection | | 1/N/PE~230 V |
| Power consumption | W | 70 |

Accessories

ZVK-WPL I



Corrosion-protected sheet metal casing, made from galvanised and powder coated sheet steel, for air source heat pumps installed indoors.

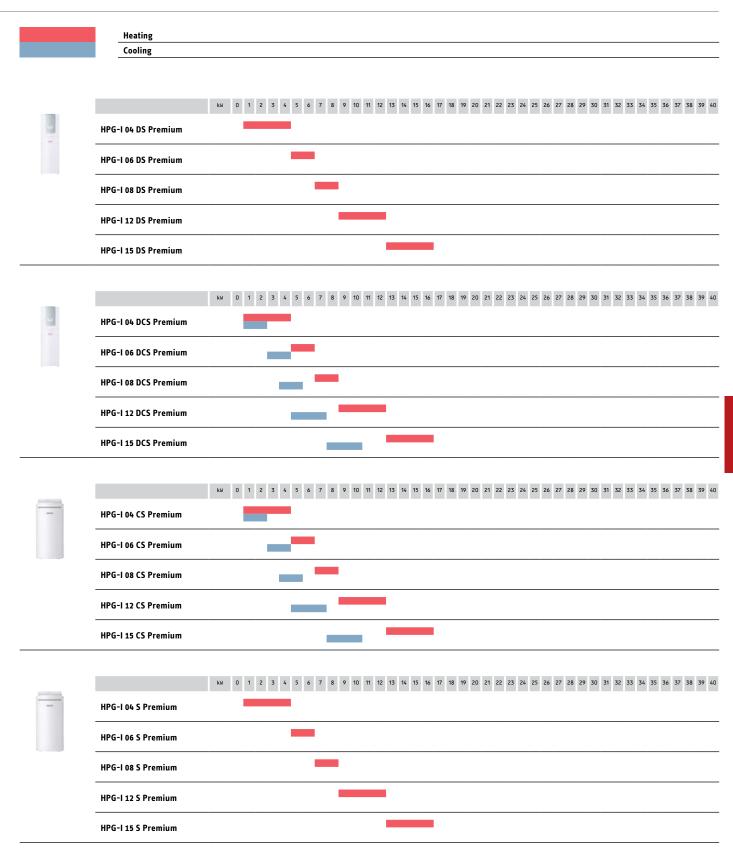
Zubehör WPL 13/18/23 I

| | Zubehör WPL 13/18/23 I |
|---------------|------------------------|
| Part number | 074412 |
| | |
| Specification | |
| Colour | white |

Heat pumps Ground source and water source heat pumps

| Ground source heat pumps – inverter | 262 |
|--|-----|
| Ground source heat pumps – fixed speed | 286 |
| Accessories for ground source heat pumps | 314 |
| | |

Application areas



Ground source heat pumps – inverter Application areas



Ground source and water source heat pumps Ground source heat pumps – inverter

| Inverter | |
|---------------------------|-----|
| HPG-I 04-15 DS Premium | 263 |
| HPG-I 04-15 DCS Premium | 266 |
| HPG-I 04-15 CS Premium | 269 |
| HPG-I 04-15 S Premium | 274 |
| WPE-I 33-87 H 400 Premium | 279 |
| | |

Inverter

HPG-I 04-15 DS Premium



HPG-I 04 DS Premium

Benefits

- > High degree of DHW convenience and monovalent heating thanks to high flow temperatures of up to 75 °C
- > Pressure monitoring in the heat source circuit with integral brine pressure switch
- > Quick, space saving installation thanks to built-in DHW cylinder and high level of integration
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- > Futureproof and eco-friendly refrigerant with high efficiency
- > Easy to transport as the refrigerant circuit and cylinder module can be separated from one another and are fitted with integral carrying handles

Application • The compact ground source heat pump with output-dependent control and inverter technology is installed indoors. • The appliance is equipped with an integral DHW cylinder. • The DHW cylinder is built into the casing and ready for operation. • Can be used in mono mode to provide heating and DHW in new and modernised buildings thanks to demand-dependent flow temperatures all year round. The system is also suitable for apartment buildings, depending on the heat load of the building. • A high level of integration enables the heat pump to be installed directly, requiring a small installation area thanks to the compact design.

Convenience features • Heat pump operation is particularly quiet due to the encapsulated refrigerant circuit and acoustically isolated compressor. • High flow temperature of up to 75 °C as a heating output thanks to the consistent source temperature. • If the on-site heat pump controller is combined with the ISG Internet Service Gateway, the system can be integrated into a smart home network and controlled via a mobile device. Heat and electricity metering is implemented using integrated refrigerant circuit data. • Control of the heating system is fully automatic and subject to the outside temperature. • One high efficiency circulation pump is built in for the brine side and one for the heating side. • Also integrated as standard are an electric emergency/auxiliary heater for mono energetic operation and pasteurisation, a diverter valve for DHW heating and a safety valve with discharge hose. • The refrigerant circuit works with the eco-friendly, futureproof refrigerant R454C, which has excellent properties in heat pump application. • The casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • Thanks to the energy saving inverter technology and integral recuperator, the heat pump works extremely efficiently all year round.

Installation • No special safety precautions are required; there is just a minimum installation room size. • Straightforward to install as the refrigerant circuit can be easily separated from the cylinder module. Both parts also have integral carrying handles. • The internal pressure hoses enable simple direct hydraulic connection to the heating and source side.







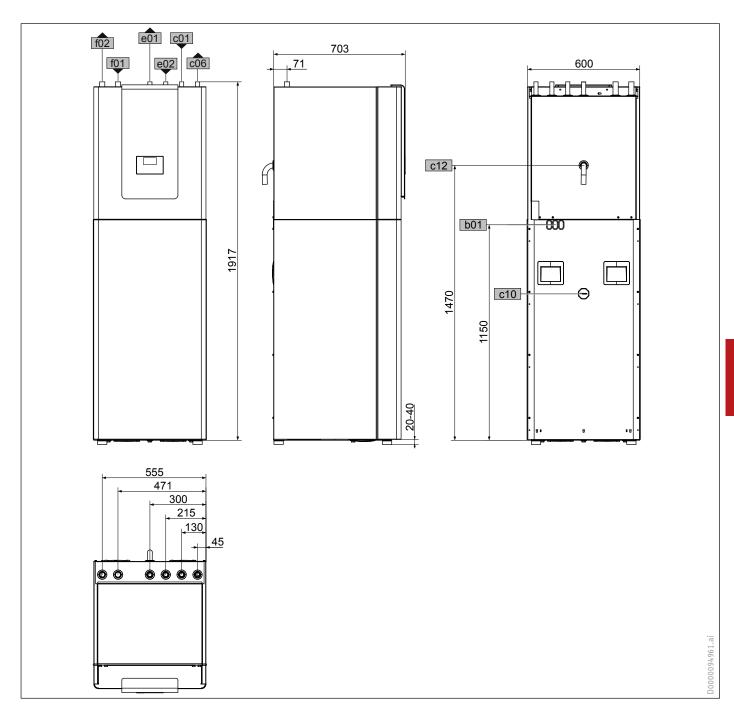




| | | HPG-I 04 DS Premium | HPG-I 06 DS Premium | HPG-I 08 DS Premium | HPG-I 12 DS Premium | HPG-I 15 DS Premium |
|--|-------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Part number | | 202622 | 202623 | 202624 | 202625 | 202626 |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Heating output at B0/W35 (EN 14511) | kW | 1.96 | 2.37 | 2.78 | 4,19 | 5,18 |
| Heating output at B0/W35 (min./max.) | kW | 1.0 - 4.2 | 1.0 - 6.6 | 1.0 - 7.6 | 2.1 - 12.7 | 2.1 - 14.8 |
| COP at B0/W35 (EN 14511) | | 4.60 | 4.60 | 4.67 | 5.01 | 4.86 |
| SCOP (EN 14825) | | 5.07 | 5.20 | 5.12 | 5.59 | 5.44 |
| Sound power level (EN 12102) | dB(A) | 43 - 46 | 43 - 48 | 43 - 48 | 43 - 49 | 43 - 49 |
| Min. installation room volume | m³ | 10 | 10 | 10 | 18 | 18 |
| Height | mm | 1937 | 1937 | 1937 | 1937 | 1937 |
| Width | mm | 600 | 600 | 600 | 600 | 600 |

Continue on next page >

| | | HPG-I 04 DS Premium | HPG-I 06 DS Premium | HPG-I 08 DS Premium | HPG-I 12 DS Premium | HPG-I 15 DS Premium |
|---|----|--|--|--|--|--|
| Depth | mm | 703 | 703 | 703 | 703 | 703 |
| Nominal capacity | I | 175 | 175 | 175 | 162 | 162 |
| Weight | kg | 265 | 265 | 265 | 275 | 275 |
| Rated voltage, compressor | ٧ | 230 | 230 | 230 | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 230 | 230 | 230 | 230 | 230 |
| Refrigerant | | R454C | R454C | R454C | R454C | R454C |
| Surface area, heat exchanger | m² | 2.10 | 2.10 | 2.10 | 3.50 | 3.50 |
| Energy efficiency class, DHW heating with load profile XL | | А | А | А | А | А |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 |
| Туре | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 |
| Type | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |



| | | HPG-I 04 DS Premium | HPG-I 06 DS Premium | HPG-I 08 DS Premium | HPG-I 12 DS Premium | HPG-I 15 DS Premium |
|---------------------------------|----|---------------------|---------------------|---------------------|---------------------|---------------------|
| b01 Entry electrical cables | | | | | | |
| c01 Cold water inlet Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| c06 DHW outlet Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| c10 DHW circulation | | | | | | |
| c12 Safety valve drain | | | | | | |
| e01 Heating flow Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 |

Inverter

HPG-I 04-15 DCS Premium



HPG-I 04 DCS Premium

Benefits

-) High degree of DHW convenience and monovalent heating thanks to high flow temperatures of up to 75 °C
- > Pressure monitoring in the heat source circuit with integral brine pressure switch
- > Passive cooling function with minimal operating costs via a geothermal probe system
- > Quick, space saving installation thanks to built-in DHW cylinder and high level of integration
-) Inverter technology allows ideally matched heating output through the variable speed compressor
- > Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- > Futureproof and eco-friendly refrigerant with high efficiency
- > Easy to transport as the refrigerant circuit and cylinder module can be separated from one another and are fitted with integral carrying handles

Application • The compact ground source heat pump with output-dependent control and inverter technology is installed indoors. It can be installed directly thanks to the high level of integration. • The DHW cylinder is built into the casing and ready for operation, as is the heat exchanger for energy efficient passive cooling via an area heating system. • Can be used in mono mode for heating and DHW operation in both new and modernised buildings thanks to high flow temperatures. • The system is also suitable for apartment buildings, depending on the heat load of the building. • A small footprint means little space required for installation.

Convenience features • Extremely quiet operation thanks to the encapsulated refrigerant circuit and acoustically isolated compressor. • High flow temperature of up to 75 °C as a heating output all year round thanks to the consistent source temperature. • The integral heat pump controller ensures fully automatic control of the heating system irrespective of the outside temperature. • The heat pump can be combined with the ISG Internet Service Gateway and controlled via the home network or a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • One high efficiency circulation pump is built in for the brine side and one for the heating side. • Electric emergency/auxiliary heater for mono energetic operation and pasteurisation. • Diverter valve for DHW heating and safety valve with discharge hose. • The refrigerant circuit works with the eco-friendly, futureproof refrigerant R454C, which has excellent properties in heat pump application.

Efficiency • Thanks to the energy saving inverter technology and integral recuperator, the heat pump works extremely efficiently all year round.

Installation • No special safety precautions are required; there is just a minimum installation room size. • The supplied pressure hoses enable direct hydraulic connection to the heating side and source side. • The casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish. • To facilitate installation, the refrigerant circuit can be easily separated from the cylinder module, and both parts have integral carrying handles.







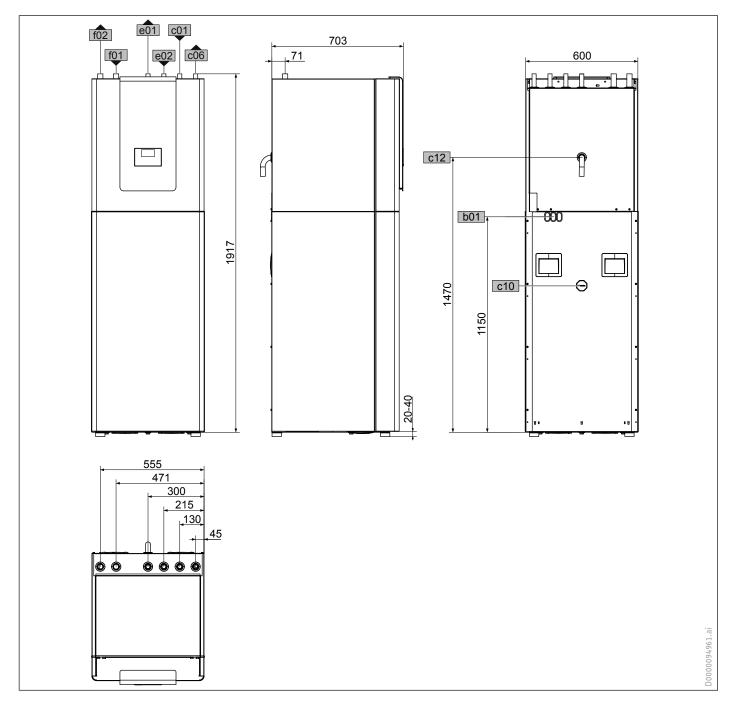




| | | HPG-I 04 DCS Pre- mium | HPG-I 06 DCS Pre- mium | HPG-I 08 DCS Pre- mium | HPG-I 12 DCS Pre- mium | HPG-I 15 DCS Pre- mium |
|--|----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Part number | | 202632 | 202633 | 202634 | 202635 | 202636 |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Heating output at B0/W35 (EN 14511) | kW | 1,96 | 2.37 | 2.78 | 4.19 | 5.18 |
| Heating output at B0/W35 (min./max.) | kW | 1.0 - 4.2 | 1.0 - 6.6 | 1.0 - 7.6 | 2,1 - 12,7 | 2.1 - 14.8 |
| COP at B0/W35 (EN 14511) | | 4.60 | 4.60 | 4.67 | 5.01 | 4.86 |
| Cooling capacity at B15/W23 | kW | 2.5 | 3 | 4 | 6 | 8 |
| SCOP (EN 14825) | | 5.07 | 5.20 | 5.12 | 5.59 | 5.44 |

Ground source heat pumps – inverter Inverter

| | | HPG-I 04 DCS Pre- mium | HPG-I 06 DCS Pre- mium | HPG-I 08 DCS Pre- mium | HPG-I 12 DCS Pre- mium | HPG-I 15 DCS Pre- mium |
|---|-------|--|--|--|--|--|
| Sound power level (EN 12102) | dB(A) | 43 - 46 | 43 - 48 | 43 - 48 | 43 - 49 | 43 - 49 |
| Max. application limit on the heating side | °C | 75 | 75 | 75 | 75 | 75 |
| Min. installation room volume | m³ | 10 | 10 | 10 | 18 | 18 |
| Height | mm | 1937 | 1937 | 1937 | 1937 | 1937 |
| Width | mm | 600 | 600 | 600 | 600 | 600 |
| Depth | mm | 703 | 703 | 703 | 703 | 703 |
| Nominal capacity | | 175 | 175 | 175 | 162 | 162 |
| Weight | kg | 265 | 265 | 265 | 275 | 275 |
| Rated voltage, compressor | V | 230 | 230 | 230 | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 230 | 230 | 230 | 230 | 230 |
| Refrigerant | | R454C | R454C | R454C | R454C | R454C |
| Surface area, heat exchanger | m² | 2.10 | 2.10 | 2.10 | 3.50 | 3.50 |
| Energy efficiency class, DHW heating with load profile XL | | A | А | А | А | А |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 |
| Туре | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 |
| Type | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 |
| Type | | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |



| | | HPG-I 04 DCS Pre- mium | HPG-I 06 DCS Pre- mium | HPG-I 08 DCS Pre- mium | HPG-I 12 DCS Pre- mium | HPG-I 15 DCS Pre- mium |
|---------------------------------|----|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| b01 Entry electrical cables | | | | | | |
| c01 Cold water inlet Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| c06 DHW outlet Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| c10 DHW circulation | | | | | | |
| c12 Safety valve drain | | | | | | |
| e01 Heating flow Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 |

Inverter

HPG-I 04-15 CS Premium



HPG-I 04 CS Premium

Benefits

- > Easy and time saving installation with high level of integration
- > High degree of DHW convenience and monovalent heating thanks to high flow temperatures of up to 75 °C
- > Pressure monitoring in the heat source circuit with integral brine pressure switch
- > Passive cooling function with minimal operating costs via a geothermal probe system
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- > Futureproof and eco-friendly refrigerant with high efficiency

Application • Ground source heat pump with output-dependent control and inverter technology is installed indoors and features a high level of integration. • The additional, integral heat exchanger ensures energy efficient passive cooling via an area heating system. • Can be used in mono mode for heating and DHW operation. • Suitable for both new and modernised buildings thanks to very high flow temperatures. • The heat pump can also be used for apartment buildings, depending on the heat load of the building.

Convenience features • Quiet operation thanks to encapsulated refrigerant circuit and acoustically isolated compressor.
• The consistent source temperature ensures a constant heating output with high flow temperatures of up to 75 °C all year round. • Fully automatic, weather-compensated control of the heating system by the integral heat pump controller. • In combination with the optional ISG Internet Service Gateway, the heating system can be controlled via the home network or a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • One high efficiency circulation pump and one expansion vessel are provided for the brine side, and the same for the heating side. • Standard delivery includes the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with discharge hose. • The refrigerant circuit works with the eco-friendly and futureproof refrigerant R454C. This has optimum properties for heat pump applications. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • The inverter and built-in recuperator ensure optimised heat pump operation and therefore maximum efficiency all year round.

Installation • Due to the integrated safety concept, no special measures are necessary during installation. Only a minimum room size must be ensured. • Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. • For easy installation, the hydraulic connections are equipped with quick-release fittings and thermal insulation. Carrying handles on the back panel facilitate appliance handling.





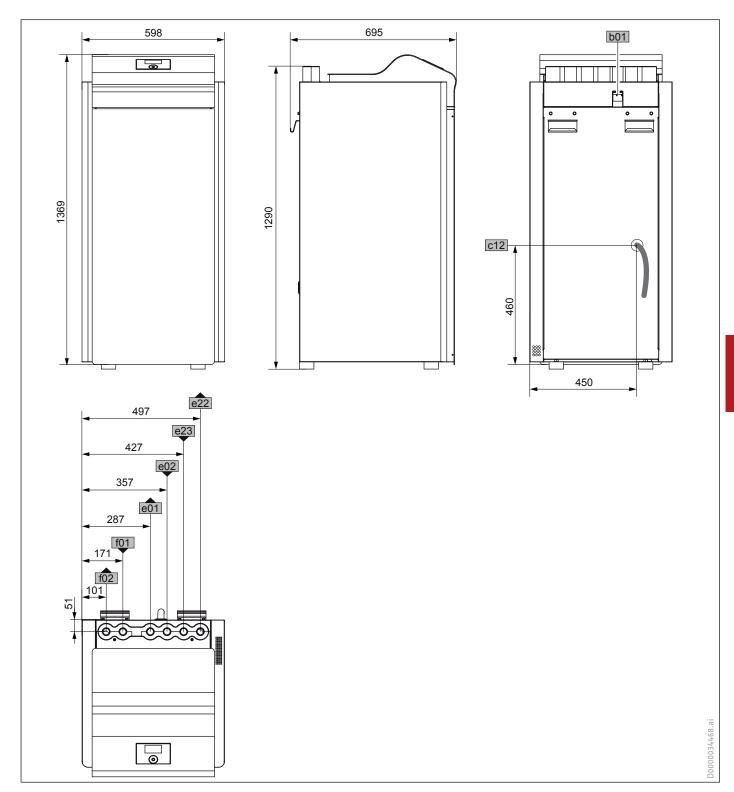






| | | HPG-I 04 CS Premium | HPG-I 06 CS Premium | HPG-I 08 CS Premium | HPG-I 12 CS Premium | HPG-I 15 CS Premium |
|--|----|---------------------|---------------------|---------------------|---------------------|---------------------|
| Part number | | 202627 | 202628 | 202629 | 202630 | 202631 |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Heating output at B0/W35 (EN 14511) | kW | 1,96 | 2,37 | 2,78 | 4,19 | 5,18 |
| Heating output at B0/W35 (min./max.) | kW | 1,0 - 4,2 | 1,0 - 6,6 | 1,0 - 7,6 | 2,1 - 12,7 | 2,1 - 14,8 |
| COP at B0/W35 (EN 14511) | | 4.60 | 4.60 | 4.67 | 5.01 | 4.86 |
| Cooling capacity at B15/W23 | kW | 2.5 | 3 | 4 | 6 | 8 |
| SCOP (EN 14825) | | 5.07 | 5.20 | 5.12 | 5.59 | 5.44 |

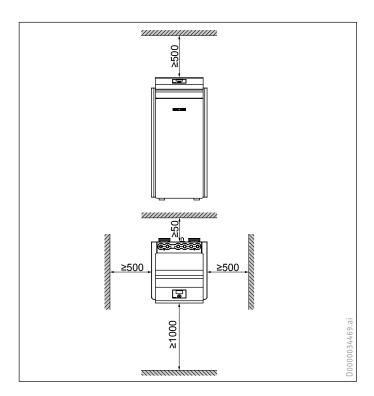
| | | HPG-I 04 CS Premium | HPG-I 06 CS Premium | HPG-I 08 CS Premium | HPG-I 12 CS Premium | HPG-I 15 CS Premium |
|--|-------|--|--|--|--|--|
| Sound power level (EN 12102) | dB(A) | 38 - 40 | 38 - 43 | 38 - 45 | 39 - 46 | 39 - 47 |
| Max. application limit on the heating side | °C | 75 | 75 | 75 | 75 | 75 |
| Min. installation room volume | m³ | 11 | 11 | 11 | 18 | 11 |
| Height | mm | 1369 | 1369 | 1369 | 1369 | 1369 |
| Width | mm | 598 | 598 | 598 | 598 | 598 |
| Depth | mm | 658 | 658 | 658 | 658 | 658 |
| Weight | kg | 180 | 180 | 180 | 190 | 190 |
| Rated voltage, compressor | V | 230 | 230 | 230 | 230 | 230 |
| Rated voltage, emergency/auxiliary heater | V | 230 | 230 | 230 | 230 | 230 |
| Refrigerant | | R454C | R454C | R454C | R454C | R454C |
| Connection, heating side | | 28 mm |
| Connection, heat source side | | 28 mm plug-in con- nection |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 |
| Type | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 |
| Туре | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 |
| Type | | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |
| DHW cylinder | | | | | | |
| Part number | | 221360 | 221360 | 221360 | 221360 | 221360 |
| Type | | SBB 301 WP |
| Description | | DHW cylinder |
| Part number | | 229980 | 229980 | | | |
| Туре | | SBS 601 W | SBS 601 W | | | |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders | | | |
| Part number | | | | 229981 | 229981 | 229981 |
| Type | | | | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | | | | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 236684 | 236684 | | | |
| Туре | | HSBC 200 L | HSBC 200 L | | | |
| Description | | Integral cylinder | Integral cylinder | | | |
| Part number | | 238826 | 238826 | 238826 | 238826 | 238826 |
| Туре | | HSBC 300 L cool |
| Description | | Integral cylinder |
| Buffer cylinder | | | | | | |
| Part number | | | | | 203763 | 203763 |
| Туре | | | | | STH 210 Plus | STH 210 Plus |
| Description | | | | | Buffer cylinder | Buffer cylinder |

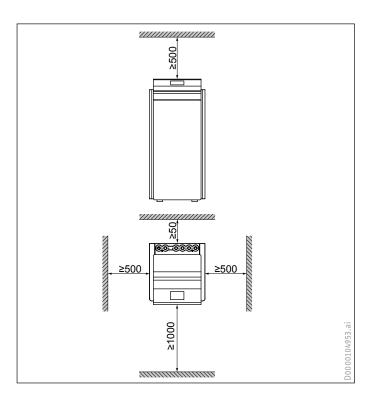


Inverter

| | | HPG-I 04 CS Premium | HPG-I 06 CS Premium | HPG-I 08 CS Premium | HPG-I 12 CS Premium | HPG-I 15 CS Premium |
|---------------------------------|----|---------------------|---------------------|---------------------|---------------------|---------------------|
| b01 Entry electrical cables | | | | | | |
| c12 Safety valve drain | | | | | | |
| e01 Heating flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| e02 Heating return Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| e22 Cylinder flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| e23 Cylinder return Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 |

Minimum clearance diagram





Inverter

HPG-I 04-15 S Premium



HPG-I 04 S Premium

Benefits

- > Easy and time saving installation with high level of integration
- High degree of DHW convenience and monovalent heating thanks to high flow temperatures of up to 75 °C
- > Pressure monitoring in the heat source circuit with integral brine pressure switch
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Very quiet operation thanks to the intelligent sound prevention concept including a number of anti-vibration mounts
- > Futureproof and eco-friendly refrigerant with high efficiency

Application • The ground source heat pump with output-dependent control and inverter technology is installed indoors. • The high level of integration simplifies installation whilst the small footprint means that it does not take up much space. • The heat pump can be used for modernisation projects as flow temperatures of up to 75 °C are available all year round for heating and DHW heating. • Mono mode is possible for both heating and DHW heating.

Convenience features • Quiet operation, due to encapsulated refrigerant circuit and acoustically isolated compressor.
• Fully automatic, weather-compensated control of the heating system is assured by the integral heat pump manager.
Control via the home network or from a mobile device is possible via the optional Internet Service Gateway (ISG).
With integral heat and electricity metering via refrigerant circuit data. • High level of integration: High efficiency circulation pumps and expansion vessels for the brine and heating side are included. Also integrated are the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, a diverter valve for DHW heating and a safety valve with discharge hose. • The refrigerant circuit works with the eco-friendly and futureproof refrigerant R454C whose properties are optimised for use in heat pumps. • The corrosion-protected, enamelled metal casing is made from hot-dip galvanised, powder coated sheet steel. Colour: Alpine white.

Efficiency • Optimum operation and high efficiency all year round thanks to the inverter and integral recuperator.

Installation • Carrying handles are provided on the back panel for easy transport. No special safety precautions are required when siting. Only the minimum room size must be complied with. Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. • For easy installation, the hydraulic connections are equipped with quick-release fittings and come with thermal insulation.





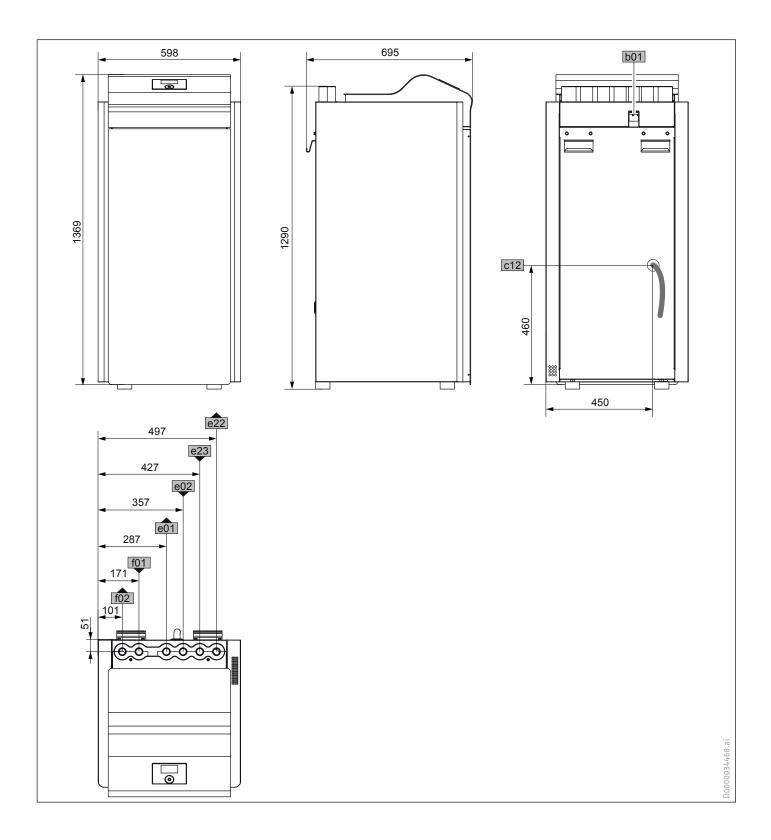






| | | HPG-I 04 S Premium | HPG-I 06 S Premium | HPG-I 08 S Premium | HPG-I 12 S Premium | HPG-I 15 S Premium |
|--|-------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Part number | | 202617 | 202618 | 202619 | 202620 | 202621 |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Heating output at B0/W35 (EN 14511) | kW | 1,96 | 2,37 | 2,78 | 4,19 | 5,18 |
| Heating output at B0/W35 (min./max.) | kW | 1,0 - 4,2 | 1,0 - 6,6 | 1,0 - 7,6 | 2,1 - 12,7 | 2,1 - 14,8 |
| COP at B0/W35 (EN 14511) | | 4.60 | 4.60 | 4.67 | 5.01 | 4.86 |
| SCOP (EN 14825) | | 5.07 | 5.20 | 5.12 | 5.59 | 5.44 |
| Sound power level (EN 12102) | dB(A) | 38 - 40 | 38 - 43 | 38 - 45 | 39 - 46 | 39 - 47 |
| Max. application limit on the heating side | °C | 75 | 75 | 75 | 75 | 75 |
| Min. installation room volume | m³ | 11 | 11 | 11 | 18 | 11 |
| Height | mm | 1369 | 1369 | 1369 | 1369 | 1369 |
| Width | mm | 598 | 598 | 598 | 598 | 598 |
| Depth | mm | 658 | 658 | 658 | 658 | 658 |
| Weight | kg | 180 | 180 | 180 | 190 | 190 |

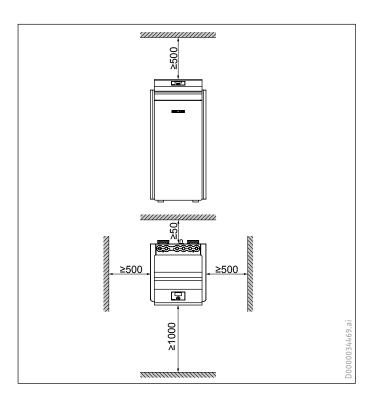
| | | HPG-I 04 S Premium | HPG-I 06 S Premium | HPG-I 08 S Premium | HPG-I 12 S Premium | HPG-I 15 S Premium |
|--|---|--|--|--|--|--|
| Rated voltage, compressor | ٧ | 230 | 230 | 230 | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 230 | 230 | 230 | 230 | 230 |
| Refrigerant | | R454C | R454C | R454C | R454C | R454C |
| Connection, heating side | | 28 mm |
| Connection, heat source side | | 28 mm plug-in con- nection |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 |
| Туре | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 |
| Туре | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |
| DHW cylinder | | | | | | |
| Part number | | 221360 | 221360 | 221360 | 221360 | 221360 |
| Туре | | SBB 301 WP |
| Description | | DHW cylinder |
| Part number | | 229980 | 229980 | | | |
| Туре | | SBS 601 W | SBS 601 W | | | |
| Description | | Instantaneous water cylinders | Instantaneous water cylinders | | | |
| Part number | | | | 229981 | 229981 | 229981 |
| Туре | | | | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | | | | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 236684 | 236684 | | | |
| Туре | | HSBC 200 L | HSBC 200 L | | | |
| Description | | Integral cylinder | Integral cylinder | | | |
| Part number | | 238826 | 238826 | 238826 | 238826 | 238826 |
| Туре | | HSBC 300 L cool |
| Description | | Integral cylinder |
| Buffer cylinder | | | | | | |
| Part number | | | | | 203763 | 203763 |
| Type | | | | | STH 210 Plus | STH 210 Plus |
| Description | | | | | Buffer cylinder | Buffer cylinder |

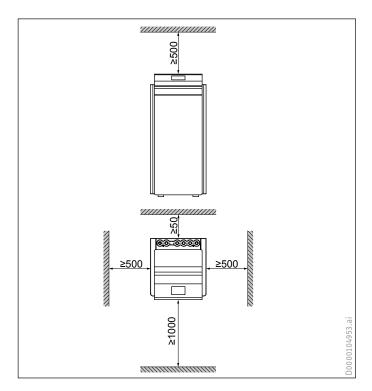


Inverter

| | | HPG-I 04 S Premium | HPG-I 06 S Premium | HPG-I 08 S Premium | HPG-I 12 S Premium | HPG-I 15 S Premium |
|---------------------------------|----|--------------------|--------------------|--------------------|--------------------|--------------------|
| b01 Entry electrical cables | | | | | | |
| c12 Safety valve drain | | | | | | |
| e01 Heating flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| e02 Heating return Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| e22 Cylinder flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| e23 Cylinder return Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 |

Minimum clearance diagram





Inverter

WPE-I 33-87 H 400 Premium



WPE-I 33 H 400 Premium

Benefits

- > Particularly efficient DHW heating using hot gas technology
- > Inverter technology allows ideally matched heating output through the variable speed compressor
- > Highly versatile, as both cascade control and dual mode integration are possible
- > Intuitive operation via colour touchscreen
- > Easy to integrate thanks to various BMS interfaces

Application • Ground source heat pump with output control and inverter technology. The system is installed indoors and is suitable for apartment buildings and commercial premises. • With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or for simultaneous heating and cooling. • It can be used in mono mode for heating and DHW operation. • Up to 16 heat pumps can be operated in a cascade to achieve the required heating output.

Convenience features • The heat pump can be installed in a variety of buildings, as the integral inverter continually adjusts the system's heating output to the current energy demand, thereby ensuring flexibility in terms of the range of application. • One high efficiency circulation pump is provided for the brine side and one for the heating side. • The hot gas technology enables simultaneous DHW heating via an additional heat exchanger. • Fully automatic, weather-compensated control of the heating system is taken care of by the integral heat pump manager with colour touchscreen. When combined with the optional Internet Service Gateway (ISG), it is also possible to control the system in the home network or with a mobile device. There is also optional provision for external control of the heating system via a building management system. • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate and its internal hydraulic connections are flexible. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • The heat pump's all year round demand-dependent output provision is ensured by the integral inverter which also enables the system to operate very efficiently. • The standard-fitted hot gas technology ensures that high DHW temperatures are achieved very efficiently and at low cost.

Installation • The vertical design means that only a small installation space is required. • The high level of integration enables quick and simplified installation, even with larger systems. The appliances are fully installed and delivered ready for operation. • Internal pressure hoses are provided for direct hydraulic connection to the heating and brine circuits.







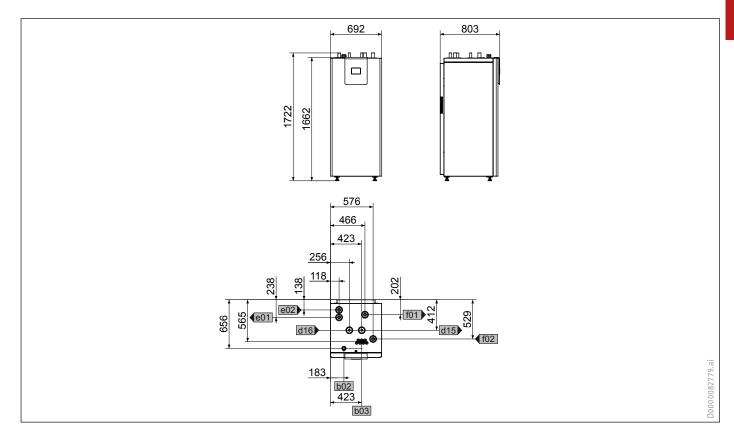
| | | WPE-I 33 H 400 Premium | WPE-I 44 H 400 Premium | WPE-I 59 H 400 Premium | WPE-I 87 H 400 Premium |
|--|-------|------------------------|------------------------|------------------------|------------------------|
| Part number | | 201412 | 201413 | 201414 | 201415 |
| | | | | | |
| Specification | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+++ | A+++ | A+++ | A+++ |
| Heating output at B0/W35 (EN 14511) | kW | 20,18 | 26,71 | 35,60 | 52,00 |
| Heating output at B0/W35 (min./max.) | kW | 10 - 33 | 11 - 44 | 14 - 59 | 21 - 87 |
| COP at B0/W35 (EN 14511) | | 4.73 | 4.60 | 4.50 | 4.71 |
| SCOP (EN 14825) | | 5.55 | 5.65 | 5.19 | 5.17 |
| Sound power level (EN 12102) | dB(A) | 41-56 | 41-56 | 46-61 | 46-63 |
| Max. application limit on the heating side | °C | 65 | 65 | 65 | 65 |
| Height | mm | 1723 | 1723 | 1742 | 1742 |
| Width | mm | 692 | 692 | 900 | 900 |

| | | WPE-I 33 H 400 Premium | WPE-I 44 H 400 Premium | WPE-I 59 H 400 Premium | WPE-I 87 H 400 Premium |
|------------------------------|----|--|--|--|---|
| Depth | mm | 803 | 803 | 848 | 84 |
| Weight | kg | 300 | 300 | 430 | 55 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 40 |
| Refrigerant | | R410A | R410A | R410A | R410A |
| Connection, heating side | | 35 mm | 35 mm | 42 mm | 42 mm |
| Connection, hot gas | mm | 28.00 | 28.00 | 28.00 | 28.00 |
| Connection, heat source side | | 42 mm | 42 mm | 54 mm | 54 mm |
| Recommended accessories | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 |
| Type | | MEG 30 | MEG 30 | MEG 30 | MEG 30 |
| Description | | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer medium |
| Part number | | 201715 | 201715 | 201715 | 201715 |
| | | EM 33-87 | EM 33-87 | EM 33-87 | EM 33-87 |
| Type | | | Extension module for | | |
| Description | | Extension module for WPMG | WPMG | Extension module for WPMG | Extension module for WPMG |
| Part number | | 201716 | 201716 | 201716 | 201716 |
| Туре | | HG Set 33-87 | HG Set 33-87 | HG Set 33-87 | HG Set 33-87 |
| Description | | Hot gas set | Hot gas set | Hot gas set | Hot gas se |
| Part number | | 201767 | 201767 | 201767 | 201767 |
| Type | | FE 33-87 | FE 33-87 | FE 33-87 | FE 33-87 |
| Description | | Digital remote control | Digital remote control | Digital remote control | Digital remote contro |
| Part number | | 202062 | 202062 | 202062 | 202062 |
| Type | | EMW 33-87 | EMW 33-87 | EMW 33-87 | EMW 33-87 |
| Description | | Extension module with wall mounted enclosure | Extension module with wall mounted enclosure | Extension module with wall mounted enclosure | Extension module with wal |
| Part number | | 202779 | 202779 | 202779 | 202779 |
| Type | | FS-HP Strömungswächter | FS-HP Strömungswächter | FS-HP Strömungswächter | FS-HP Strömungswächter |
| Description | | Flow switch | Flow switch | Flow switch | Flow switch |
| Part number | | 221382 | 221382 | 221382 | 221382 |
| Туре | | DWS1 Soledruckwächter | DWS1 Soledruckwächter | DWS1 Soledruckwächter | DWS1 Soledruckwächter |
| Description | | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch |
| Part number | | 229336 | 229336 | 229336 | 229336 |
| | | ISG web | ISG web | ISG web | ISG web |
| Type Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| ' | | • | ŕ | • | |
| Part number | | 233307 | 233307 | 233307 | 233307 |
| Type | | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit | WPSF Multifunctional brine charging unit | WPSF Multifunctional brine charging unit | WPSF Multifunctional brine charging unit |
| DHW cylinder | | | | | |
| Part number | | 229982 | 229982 | 229982 | 229982 |
| Type | | SBS 1001 W | SBS 1001 W | SBS 1001 W | SBS 1001 W |
| Description | | Instantaneous water cyl- inders | Instantaneous water cyl- inders | Instantaneous water cyl- inders | Instantaneous water cyl- inders |
| Part number | | 229983 | 229983 | 229983 | 229983 |
| Type | | SBS 1501 W | SBS 1501 W | SBS 1501 W | SBS 1501 W |
| | | | | | |
| Description | | Instantaneous water cyl- inders | Instantaneous water cyl- inders | Instantaneous water cyl- inders | Instantaneous water cyl- inders |
| Buffer cylinder | | | | | |
| Part number | | 185459 | 185459 | | |
| Туре | | SBP 700 E | SBP 700 E | | |
| Description | | Buffer cylinder | Buffer cylinder | | |
| Part number | | 203765 | 203765 | | |
| Type | | STH 720 Plus | STH 720 Plus | | |
| •• | | | | | |
| Description Part number | | Buffer cylinder | Buffer cylinder | 0075 | |
| Part number | | | | 227564 CDD 1000 F | |
| Туре | | | | SBP 1000 E | |
| Description | | | | Buffer cylinder | |

Inverter

| | WPE-I 33 H 400 Premium | WPE-I 44 H 400 Premium | WPE-I 59 H 400 Premium | WPE-I 87 H 400 Premium |
|-------------|------------------------|------------------------|------------------------|------------------------|
| Part number | | | | 227565 |
| Туре | | | | SBP 1500 E |
| Description | | | | Buffer cylinder |

WPE-I 33 H 400 Premium WPE-I 44 H 400 Premium



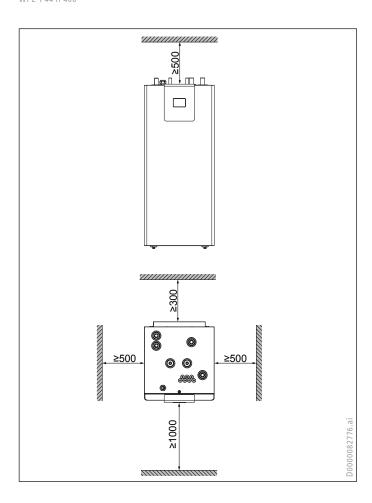
Inverter

| | | WPE-I 33 H 400 Premium | WPE-I 44 H 400 Premium | WPE-I 59 H 400 Premium | WPE-I 87 H 400 Premium |
|---|----|------------------------|------------------------|------------------------|------------------------|
| b02 Entry electrical cables I | | | | | |
| b03 Entry electrical cables II | | | | | |
| d15 Hot gas DHW flow opt. Diameter | mm | 28 | 28 | 28 | 28 |
| d16 Hot gas DHW return opt. Diameter | mm | 28 | 28 | 28 | 28 |
| e01 Heating flow Diameter | mm | 35 | 35 | 42 | 42 |
| e02 Heating return Diameter | mm | 35 | 35 | 42 | 42 |
| f01 Heat source flow Diameter | mm | 42 | 42 | 54 | 54 |
| f02 Heat source return Diameter | mm | 42 | 42 | 54 | 54 |

Minimum clearance diagram

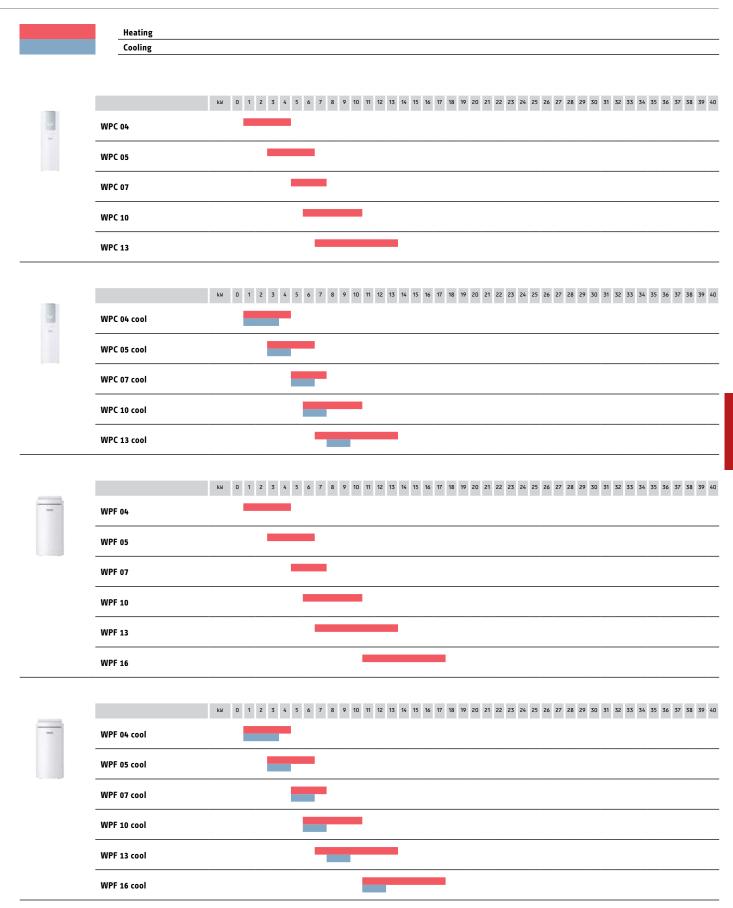
WPE-I 33 H 400 Premium WPE-I 44 H 400

remium



Ground source heat pumps - fixed speed

Application areas



Ground source heat pumps - fixed speed

Application areas



| ixed speed | |
|----------------|-----|
| WPC 04-13 | 287 |
| WPC 04-13 cool | 290 |
| WPF 04-16 | 294 |
| WPF 04-16 cool | 299 |
| WPF 10-16 M | 307 |
| WPF 20-66 | 306 |
| WPF 27 HT | 309 |
| WPF 20-32 Set | 312 |

Fixed speed

WPC 04-13



WPC 04

Benefits

- > Compact ground source heat pump for heating
-) Low operating costs due to high coefficient of performance all year round
- > Straightforward and space saving installation due to integral DHW cylinder and high level of integration
- > Very quiet operation thanks to multiple anti-vibration mounts
- > Easy to transport as the refrigerant circuit and cylinder module can be separated from one another and are fitted with integral carrying handles
- > High level of DHW convenience with flow temperatures of up to 65 °C
- > Pressure in the heat source circuit is monitored with an integral brine pressure switch

Application • The compact ground source heat pump is suitable for indoor installation and is equipped with an integral DHW cylinder. It requires only a very small installation area thanks to the high level of integration. • Can be used in mono mode for heating and DHW operation in both new and modernised buildings, due to demand-dependent high flow temperatures all year round.

Convenience features • Quiet operation thanks to the refrigerant circuit mounted on an anti-vibration base plate, which minimises the transfer of structure-borne sound to the building. • The consistent source temperature ensures demand-dependent heating output with flow temperatures of up to 65 °C all year round. • The integral heat pump manager enables fully automatic, weather-compensated control of the heating system. In combination with the optional Internet Service Gateway (ISG), the heating system can be controlled via the home network or a mobile device. Integral heat and electricity metering is implemented using refrigerant circuit data. • One high efficiency circulation pump is provided for the brine side and one for the heating side. Standard delivery also includes the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, diverter valve for DHW heating and safety valve with discharge hose. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel. It has an alpine white stove enamel finish.

Efficiency • The scroll compressor with soft starter and the optimised heat exchangers increase the efficiency of the system.

Installation • To facilitate transport to the installation site, the refrigerant circuit can be separated from the cylinder module with minimal effort. In addition, the top and bottom sections have integral carrying handles. • The supplied pressure hoses allow easier direct hydraulic connection to the heating side and source side.





232926, 232927,

232928, 232929,

Α

232930









232926, 232927, 232928, 232929,

Α



232937, 232938

232939, 232940



232930



| | | WPC 04 | WPC 05 | WPC 07 | WPC 10 | WPC 13 |
|--|-------|--------|--------|--------|--------|--------|
| Part number | | 232926 | 232927 | 232928 | 232929 | 232930 |
| | | | | | | |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 4.77 | 5.82 | 7.50 | 10.31 | 13.21 |
| COP at B0/W35 (EN 14511) | | 4.50 | 4.80 | 4.84 | 5.02 | 4.82 |
| SCOP (EN 14825) | | 4.925 | 5.325 | 5.325 | 5.60 | 5.275 |
| Sound power level (EN 12102) | dB(A) | 43 | 45 | 48 | 49 | 50 |
| Height | mm | 1917 | 1917 | 1917 | 1917 | 1917 |
| Width | mm | 600 | 600 | 600 | 600 | 600 |
| Depth | mm | 703 | 703 | 703 | 703 | 703 |
| Nominal capacity | 1 | 175 | 175 | 175 | 162 | 162 |
| Weight | kg | 243 | 246 | 259 | 277 | 283 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 | 400 | 400 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A |
| Surface area, heat exchanger | m² | 2.10 | 2.10 | 2.10 | 3.60 | 3.60 |

Α

Α

Energy efficiency class, DHW

heating with load profile XL

Fixed speed

| | | WPC 04 | WPC 05 | WPC 07 | WPC 10 |
|---|-------|--|--|--|--|
| Recommended accessories | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 |
| Туре | | MEG 30 | MEG 30 | MEG 30 | MEG 30 |
| Description | | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer medium |
| Part number | | 221382 | 221382 | 221382 | 221382 |
| Туре | | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter |
| Description | | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch |
| Part number | | 229336 | 229336 | 229336 | 229336 |
| Туре | | ISG web | ISG web | ISG web | ISG web |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |
| | | WPC 05 S | WPC 07 S | WPC 10 S | WPC 13 S |
| Part number | | 232937 | 232938 | 232939 | 232940 |
| Specification | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 5.88 | 7.61 | 10.31 | 13.01 |
| COP at B0/W35 (EN 14511) | | 4.78 | 4.75 | 4.76 | 4.75 |
| SCOP (EN 14825) | | 5.225 | 5.30 | 5.20 | 5.175 |
| Sound power level (EN 12102) | dB(A) | 45 | 48 | 49 | 50 |
| Height | mm | 1917 | 1917 | 1917 | 1917 |
| Width | mm | 600 | 600 | 600 | 600 |
| Depth | mm | 703 | 703 | 703 | 703 |
| Nominal capacity | I | 175 | 175 | 162 | 162 |
| Weight | kg | 246 | 259 | 277 | 283 |
| Rated voltage, compressor | V | 230 | 230 | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 230 | 230 | 230 | 230 |
| Refrigerant | | R410A | R410A | R410A | R410A |
| Surface area, heat exchanger Energy efficiency class, DHW heating with load profile XL | m² | 2.10 A | 2.10 A | 3.60 A | 3.60 |
| Recommended accessories | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 |
| Type | | MEG 30 | MEG 30 | MEG 30 | MEG 30 |
| Description | | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer medium |
| Part number | | 221382 | 221382 | 221382 | 221382 |
| Туре | | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter |
| Description | | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch |
| Part number | | 229336 | 229336 | 229336 | 229336 |
| Type | | ISG web | ISG web | ISG web | ISG web |
| Description | | Internet Service | Internet Service | Internet Service | Internet Service |
| · F · · | | Gateway | Gateway | Gateway | Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional | WPSF Multifunctional | WPSF Multifunctional | WPSF Multifunctional |
| r · · | | brine charging unit | brine charging unit | brine charging unit | |

WPC 13

161696 MEG 30

229336 ISG web Internet Service Gateway 233307 WPSF

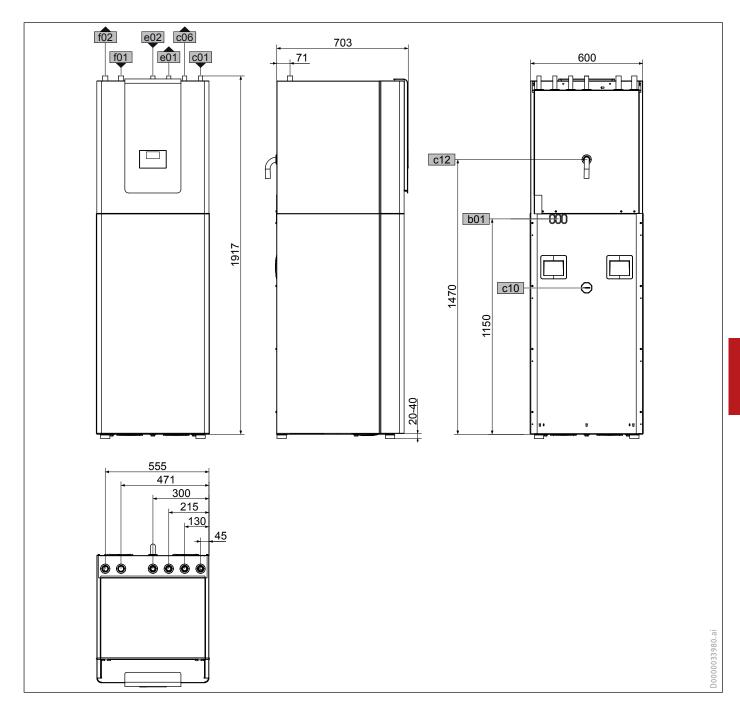
Heat transfer medium

Brine pressure switch

WPSF Multifunctional brine charging unit

DWS1 Soledruckwächter

Fixed speed



| | | WPC 04 | WPC 05 | WPC 07 | WPC 10 | WPC 13 | WPC 05 S | WPC 07 S | WPC 10 S | WPC 13 S |
|------------------------------------|----|--------|--------|--------|--------|--------|----------|----------|----------|----------|
| b01 Entry electrical cables | | | | | | | | | | |
| c01 Cold water inlet Diameter | mm | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| c06 DHW outlet Diameter | mm | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| c10 DHW circulation Male thread | | G 1/2 | G 1/2 | G 1/2 | G 1/2 |
| c12 Safety valve drain | | | | | | | | | | |
| e01 Heating flow Diameter | mm | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |

Fixed speed

WPC 04-13 cool



WPC 04 cool

Benefits

- > Compact ground source heat pump for heating and cooling
-) Low operating costs due to high coefficient of performance all year round
- > Straightforward and space saving installation due to integral DHW cylinder and high level of integration
- > Passive cooling function with minimal operating costs via a geothermal probe system
- > Very quiet operation thanks to multiple anti-vibration mounts
- Easy to transport as the refrigerant circuit and cylinder module can be separated from one another and are fitted with integral carrying handles
- > High level of DHW convenience with flow temperatures of up to 65 °C
- > Pressure in the heat source circuit is monitored with an integral brine pressure switch

Application • The compact ground source heat pump is installed indoors. It features a high level of integration and an integral DHW cylinder. Additionally with integral heat exchanger for energy efficient passive cooling via an area heating system. • Can be used in mono mode to provide heating and DHW in new and modernised buildings due to the high flow temperatures. • Very small footprint thanks to the compact design.

Convenience features • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. • Due to the consistent source temperature, a constant heating output with flow temperatures of up to 65 °C is guaranteed all year round. • The integral heat pump controller enables fully automatic, weather-compensated control of the heating system. • In combination with the optional ISG, the system can be controlled via the home network or a mobile device. • Integral heat and electricity metering is implemented using refrigerant circuit data. • One high efficiency circulation pump is provided for the brine side and one for the heating side. • An electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with discharge hose are integrated as standard. • The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel, with an alpine white stove enamel finish.

Efficiency • The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

Installation • The supplied pressure hoses enable direct hydraulic connection to the heating side and source side. • To facilitate installation, the heat pump refrigerant circuit can be easily separated from the cylinder module. Integral carrying handles at the top and bottom make handling easier.











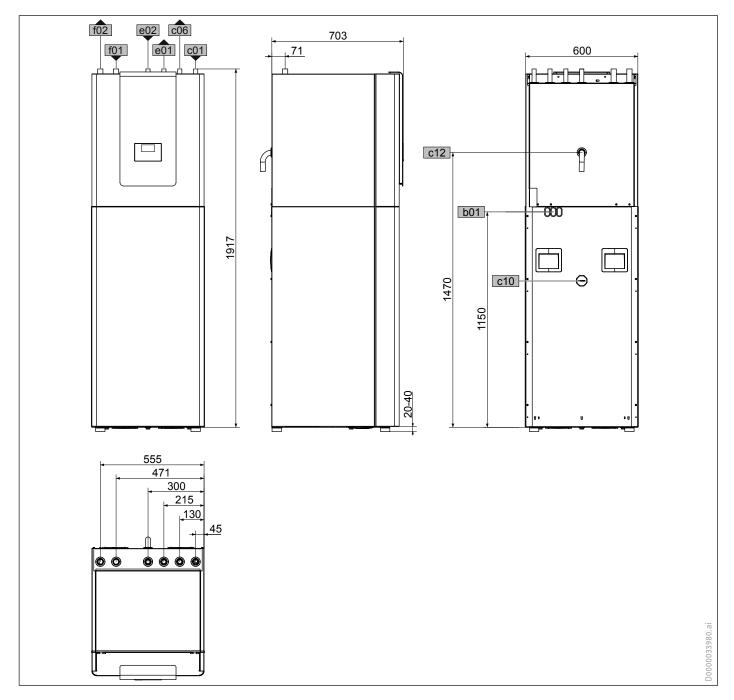


| | | WPC 04 cool | WPC 05 cool | WPC 07 cool | WPC 10 cool | WPC 13 cool |
|--|-------|-------------|-------------|-------------|-------------|-------------|
| Part number | | 232931 | 232932 | 232933 | 232934 | 232935 |
| | | | | | | |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 4.77 | 5.82 | 7.50 | 10.31 | 13.21 |
| COP at B0/W35 (EN 14511) | | 4.50 | 4.80 | 4.84 | 5.02 | 4.82 |
| Cooling capacity at B15/W23 | kW | 3.00 | 3.80 | 5.20 | 6.00 | 8.50 |
| SCOP (EN 14825) | | 4.925 | 5.325 | 5.325 | 5.60 | 5.275 |
| Sound power level (EN 12102) | dB(A) | 43 | 45 | 48 | 49 | 50 |
| Height | mm | 1917 | 1917 | 1917 | 1917 | 1917 |
| Width | mm | 600 | 600 | 600 | 600 | 600 |
| Depth | mm | 703 | 703 | 703 | 703 | 703 |
| Nominal capacity | I | 175 | 175 | 175 | 162 | 162 |
| Weight | kg | 248 | 251 | 264 | 283 | 288 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 | 400 | 400 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A |

Ground source heat pumps – fixed speed Fixed speed

| | | WPC 04 cool | WPC 05 cool | WPC 07 cool | WPC 10 cool | WPC 13 cool |
|---|----|--|--|--|--|--|
| Surface area, heat exchanger | m² | 2.10 | 2.10 | 2.10 | 3.60 | 3.60 |
| Energy efficiency class, DHW heating with load profile XL | | А | A | A | A | A |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 |
| Туре | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 221382 | 221382 | 221382 | 221382 | 221382 |
| Туре | | DWS1 Soledruck- wächter |
| Description | | Brine pressure switch |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 |
| Туре | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |

Fixed speed



| | | WPC 04 cool | WPC 05 cool | WPC 07 cool | WPC 10 cool | WPC 13 cool |
|------------------------------------|----|-------------|-------------|-------------|-------------|-------------|
| b01 Entry electrical cables | | | | | | |
| c01 Cold water inlet Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| c06 DHW outlet Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| c10 DHW circulation Male thread | | G 1/2 |
| c12 Safety valve drain | | | | | | |
| e01 Heating flow Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| e02 Heating return Diameter | mm | 22 | 22 | 22 | 22 | 22 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 |

Fixed speed

WPF 04-16



WPF 04

Benefits

- > Ground source heat pump for heating
-) Low operating costs due to high coefficient of performance all year round
- > Easy and time saving installation with high level of integration
- > Very quiet operation thanks to multiple anti-vibration mounts
- > High level of DHW convenience with flow temperatures of up to 65 °C
- > Pressure in the heat source circuit is monitored with an integral brine pressure switch

Application • The ground source heat pump is suitable for indoor installation. • Fast, space saving installation thanks to the high level of integration. • Can be used in mono mode to provide heating and DHW in new and modernised buildings, due to demand-dependent high flow temperatures all year round. • The system is also suitable for apartment buildings, depending on the heat load of the building.

Convenience features • Very quiet operation thanks to the intelligent noise reduction concept, with the refrigerant circuit mounted on an anti-vibration base plate. • The consistent source temperature guarantees a demand-dependent heating output all year round, with flow temperatures of up to 65 °C. • The integral heat pump manager enables fully automatic, weather-compensated control of the system. • The heat pump can be combined with the Internet Service Gateway (ISG) and controlled via the home network or a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • A high efficiency circulation pump and an expansion vessel are provided for both the brine side and the heating side. • Also integrated as standard: an electric emergency/auxiliary heater for mono energetic operation and pasteurisation, diverter valve for DHW heating and safety valve with discharge hose. • The metal casing is corrosion-protected with an alpine white finish and made from hot-dip galvanised, powder coated sheet steel.

Efficiency • The scroll compressor with soft starter and the optimised heat exchangers increase efficiency.

Installation • Transport handles on the back panel of the heat pump facilitate transport to the installation site. • Internal pressure hoses enable straightforward, direct hydraulic connection to the heating and brine circuits. The hydraulic connections are equipped with quick-release fittings and thermal insulation.





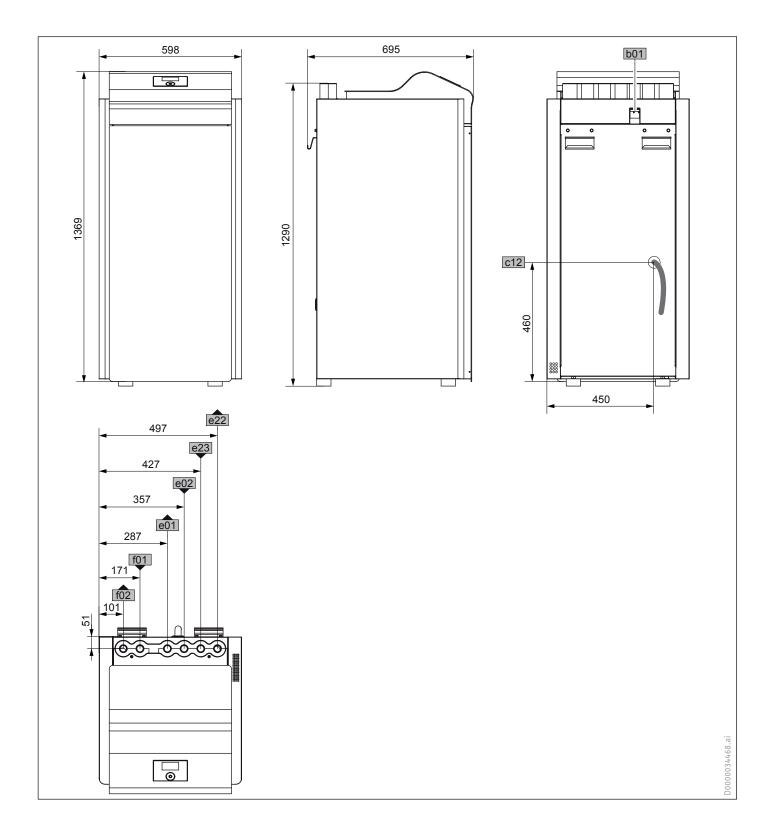
| | | WPF 04 | WPF 05 | WPF 07 | WPF 10 | WPF 13 |
|--|-------|--------|--------|--------|--------|--------|
| Part number | | 232909 | 232910 | 232911 | 232912 | 232913 |
| | | | | | | |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 4.77 | 5.82 | 7.50 | 10.31 | 13.21 |
| COP at B0/W35 (EN 14511) | | 4.50 | 4.80 | 4.84 | 5.02 | 4.82 |
| SCOP (EN 14825) | | 4.925 | 5.325 | 5.325 | 5.60 | 5.275 |
| Sound power level (EN 12102) | dB(A) | 43 | 43 | 47 | 48 | 49 |
| Max. application limit on the heating side | °C | 65 | 65 | 65 | 65 | 65 |
| Height | mm | 1319 | 1319 | 1319 | 1319 | 1319 |
| Width | mm | 598 | 598 | 598 | 598 | 598 |
| Depth | mm | 658 | 658 | 658 | 658 | 658 |
| Weight | kg | 142 | 144 | 161 | 168 | 171 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 | 400 | 400 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A |

Fixed speed

| | | WPF 04 | WPF 05 | WPF 07 | WPF 10 | WPF 13 |
|--|-------|--|--|--|--|---|
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 16169 |
| Type | | MEG 30 |
| Description | | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer mediun |
| Part number | | 229336 | 229336 | 229336 | 229336 | 22933 |
| Туре | | ISG web | ISG web | ISG web | ISG web | ISG wel |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 23330 |
| Туре | | WPSF | WPSF | WPSF | WPSF | WPSI |
| Description | | WPSF Multifunctional brine charging unit | WPSF Multifunctiona brine charging uni |
| DHW cylinder | | | | | | |
| Part number | | | | | 221360 | 22136 |
| Type | | | | | SBB 301 WP | SBB 301 W |
| Description | | | | | DHW cylinder | DHW cylinde |
| Part number | | | | 229981 | 229981 | 22998 |
| Type | | | | SBS 801 W | SBS 801 W | SBS 801 V |
| Description | | | | Instantaneous water | Instantaneous water | Instantaneous wate |
| 2 cocinption | | | | cylinders | cylinders | cylinder |
| Part number | | 236684 | 236684 | | , in the second | |
| Туре | | HSBC 200 L | HSBC 200 L | | | |
| Description | | Integral cylinder | Integral cylinder | | | |
| Part number | | 238826 | 238826 | 238826 | 238826 | |
| Туре | | HSBC 300 L cool | |
| Description | | Integral cylinder | Integral cylinder | Integral cylinder | Integral cylinder | |
| Buffer cylinder | | | | | | |
| Part number | | | | | | 185458 |
| Туре | | | | | | SBP 200 E |
| Description | | | | | | Buffer cylinde |
| Part number | | | | | 203763 | 20376 |
| Type | | | | | STH 210 Plus | STH 210 Plu |
| Description | | | | | Buffer cylinder | Buffer cylinde |
| | | WPF 16 | WPF 05 S | WPF 07 S | WPF 10 S | WPF 13 S |
| Part number | | 232914 | 232922 | 232923 | 232924 | 23292 |
| Specification | | | | | | |
| Energy efficiency class, heat | | A+++ | A+++ | A+++ | A+++ | A+++ |
| pump W35 Energy efficiency class, heat | | A++ | A++ | A++ | A++ | A++ |
| pump W55 Energy efficiency class, com- | | A+++ | A+++ | A+++ | A+++ | A++- |
| posite system (heat pump + controller) W35 | | | | | | |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 17.02 | 5.88 | 7.61 | 10.31 | 13.0 |
| COP at B0/W35 (EN 14511) | | 4.54 | 4.78 | 4.75 | 4.76 | 4.7 |
| SCOP (EN 14825) | | 4.925 | 5.225 | 5.30 | 5.20 | 5.17 |
| Sound power level (EN 12102) | dB(A) | 53 | 43 | 47 | 48 | 4 |
| Max. application limit on the heating side | °C | 65 | 60 | 60 | 60 | 6 |
| | mm | 1319 | 1319 | 1319 | 1319 | 1319 |
| Height | | | | | | |
| Height Width | mm | 598 | 598 | 598 | 598 | 598 |

Ground source heat pumps – fixed speed Fixed speed

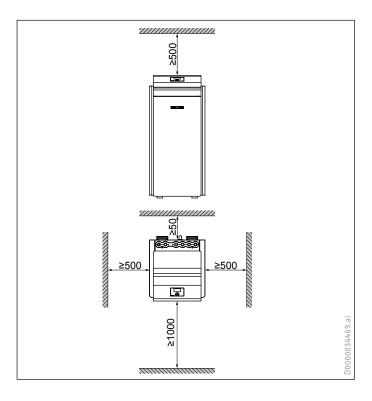
| | | WPF 16 | WPF 05 S | WPF 07 S | WPF 10 S | WPF 13 S |
|--|----|--|--|--|--|--|
| Weight | kg | 185 | 144 | 161 | 168 | 170 |
| Rated voltage, compressor | ٧ | 400 | 230 | 230 | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 230 | 230 | 230 | 230 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 |
| Type | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 |
| Туре | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multifunctional brine charging unit |
| DHW cylinder | | | | | | |
| Part number | | 221361 | | - | | |
| Туре | | SBB 302 WP | | | | |
| Description | | DHW cylinder | | | | |
| Part number | | , | | | 229980 | |
| Туре | | | | | SBS 601 W | |
| Description | | | | | Instantaneous water cylinders | |
| Part number | | 229981 | | 229981 | , | 229981 |
| Туре | | SBS 801 W | | SBS 801 W | | SBS 801 W |
| Description | | Instantaneous water | | Instantaneous water | | Instantaneous water |
| Part number | | cylinders | 236684 | cylinders | | cylinders |
| | | | HSBC 200 L | | | |
| Type Description | | | | | | |
| Part number | | | Integral cylinder 238826 | 238826 | | |
| | | | HSBC 300 L cool | HSBC 300 L cool | | |
| Type | | | | | | |
| Description | | | Integral cylinder | Integral cylinder | | |
| Buffer cylinder | | | | | | |
| Part number | | 185458 | | | | 185458 |
| Туре | | SBP 200 E | | | | SBP 200 E |
| Description | | Buffer cylinder | | | | Buffer cylinder |
| Part number | | 203763 | | | 203763 | 203763 |
| Туре | | STH 210 Plus | | | STH 210 Plus | STH 210 Plus |
| Description | | Buffer cylinder | | | Buffer cylinder | Buffer cylinder |

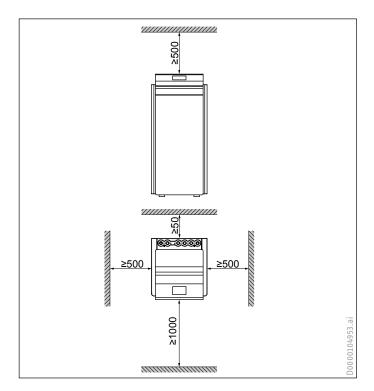


Fixed speed

| | | WPF 04 | WPF 05 | WPF 07 | WPF 10 | WPF 13 | WPF 16 | WPF 05 S | WPF 07 S | WPF 10 S | WPF 13 S |
|---------------------------------|----|--------|--------|--------|--------|--------|--------|----------|----------|----------|----------|
| b01 Entry electrical cables | | | | | | | | | | | |
| c12 Safety valve drain | | | | | | | | | | | |
| e01 Heating flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| e02 Heating return Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| e22 Cylinder flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| e23 Cylinder return Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |

Minimum clearance diagram





Fixed speed

WPF 04-16 cool



WPF 04 cool

Benefits

- > Ground source heat pump for heating and cooling
-) Low operating costs due to high coefficient of performance all year round
- > Passive cooling function with minimal operating costs via a geothermal probe system
- > Easy and time saving installation with high level of integration
- > Very quiet operation thanks to multiple anti-vibration mounts
- > High level of DHW convenience with flow temperatures of up to 65 °C
- > Pressure in the heat source circuit is monitored with an integral brine pressure switch

Application • Ground source heat pump for indoor installation with high level of integration. Additionally with integral heat exchanger for energy efficient passive cooling via an area heating system. Can be used in mono mode to provide heating and DHW in new and modernised buildings due to the high flow temperatures. Also suitable for apartment buildings, depending on the heat load of the building.

Convenience features • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate. Due to the consistent source temperature, a constant heating output with flow temperatures of up to 65 °C is guaranteed all year round. The integral heat pump controller enables fully automatic, weather-compensated control of the heating system. In combination with the optional ISG, the heating system can be controlled via the home network or a mobile device. Integral heat and electricity metering is implemented using refrigerant circuit data. A high efficiency circulation pump and an expansion vessel are provided for both the brine side and the heating side. An electric emergency/auxiliary heater for mono energetic operation and pasteurisation, diverter valve for DHW heating and safety valve with discharge hose are integrated as standard. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A.

Efficiency • The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

Installation • Internal pressure hoses enable direct hydraulic connection to the heating and brine circuits. For easy installation, the hydraulic connections are equipped with quick-release fittings and are already thermally insulated. The metal casing is corrosion-protected and made from galvanised, powder coated sheet steel with an alpine white stove enamelled finish. Carrying handles on the back panel facilitate appliance handling.



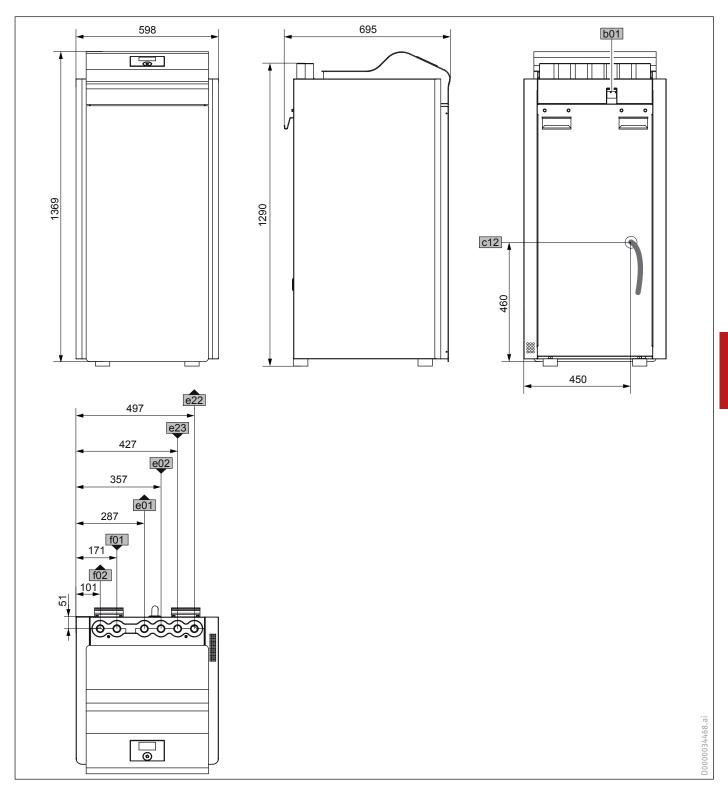


| | | WPF 04 cool | WPF 05 cool | WPF 07 cool | WPF 10 cool | WPF 13 cool | WPF 16 cool |
|--|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| Part number | | 232915 | 232916 | 232917 | 232918 | 232919 | 232920 |
| Specification | | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 4.77 | 5.82 | 7.50 | 10.31 | 13.21 | 17.02 |
| COP at B0/W35 (EN 14511) | | 4.50 | 4.80 | 4.84 | 5.02 | 4.82 | 4.54 |
| Cooling capacity at B15/W23 | kW | 3.00 | 3.80 | 5.20 | 6.00 | 8.50 | 11.00 |
| SCOP (EN 14825) | | 4.925 | 5.325 | 5.325 | 5.60 | 5.275 | 4.925 |
| Sound power level (EN 12102) | dB(A) | 43 | 43 | 47 | 48 | 49 | 53 |
| Max. application limit on the heating side | °C | 65 | 65 | 65 | 65 | 65 | 65 |
| Height | mm | 1319 | 1319 | 1319 | 1319 | 1319 | 1319 |
| Width | mm | 598 | 598 | 598 | 598 | 598 | 598 |
| Depth | mm | 658 | 658 | 658 | 658 | 658 | 658 |
| Weight | kg | 158 | 160 | 165 | 177 | 182 | 192 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 400 | 400 | 400 |

Ground source heat pumps – fixed speed Fixed speed

| | | WPF 04 cool | WPF 05 cool | WPF 07 cool | WPF 10 cool | WPF 13 cool | WPF 16 cool |
|--|---|--|--|--|--|--|--|
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 | 400 | 400 | 400 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| Recommended accessories | | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 161696 | 161696 |
| Туре | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 229336 | 229336 | 229336 | 229336 | 229336 | 229336 |
| Type | | ISG web |
| Description | | Internet Service Gateway |
| Part number | | 233307 | 233307 | 233307 | 233307 | 233307 | 233307 |
| Туре | | WPSF | WPSF | WPSF | WPSF | WPSF | WPSF |
| Description | | WPSF Multi- functional brine charging unit |
| DHW cylinder | | | | | | | |
| Part number | | | | | 221360 | 221360 | |
| Type | | | | | SBB 301 WP | SBB 301 WP | |
| Description | | | | | DHW cylinder | DHW cylinder | |
| Part number | | | | | | | 221361 |
| Type | | | | | | | SBB 302 WP |
| Description | | | | | | | DHW cylinder |
| Part number | | | | 229981 | 229981 | 229981 | 229981 |
| Type | | | | SBS 801 W | SBS 801 W | SBS 801 W | SBS 801 W |
| Description | | | | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | | 236684 | 236684 | | | | |
| Type | | HSBC 200 L | HSBC 200 L | | | | |
| Description | | Integral cylinder | Integral cylinder | | | | |
| Part number | | 238826 | 238826 | 238826 | 238826 | | |
| Туре | | HSBC 300 L cool | | |
| Description | | Integral cylinder | Integral cylinder | Integral cylinder | Integral cylinder | | |
| Buffer cylinder | | | | | | | |
| Part number | | | | | | 185458 | 185458 |
| Туре | | | | | | SBP 200 E | SBP 200 E |
| Description | | | | | | Buffer cylinder | Buffer cylinder |
| Part number | | | | | 203763 | 203763 | 203763 |
| Type | | | | | STH 210 Plus | STH 210 Plus | STH 210 Plus |
| Description | | | | | Buffer cylinder | Buffer cylinder | Buffer cylinder |

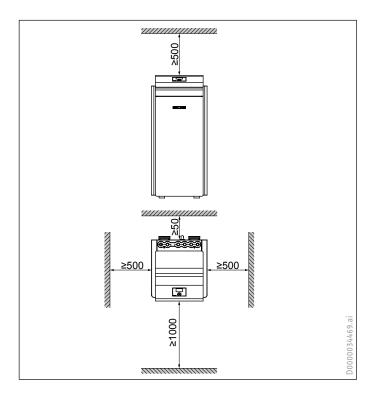
Fixed speed



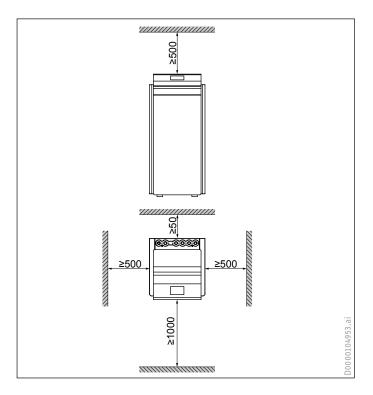
Fixed speed

| | | WPF 04 cool | WPF 05 cool | WPF 07 cool | WPF 10 cool | WPF 13 cool | WPF 16 cool |
|---------------------------------|----|-------------|-------------|-------------|-------------|-------------|-------------|
| b01 Entry electrical cables | | | | | | | |
| c12 Safety valve drain | | | | | | | |
| e01 Heating flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 |
| e02 Heating return Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 |
| e22 Cylinder flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 |
| e23 Cylinder return Diameter | mm | 28 | 28 | 28 | 28 | 282 | 28 |
| f01 Heat source flow Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 |
| f02 Heat source return Diameter | mm | 28 | 28 | 28 | 28 | 28 | 28 |

Minimum clearance diagram



Fixed speed



Fixed speed

WPF 10-16 M



WPF 10 M

Benefits

- > Ground source heat pump for heating
- > Suitable for cascade connection with high output demand
- The heat source system (WQA) can be used between -5 °C and +20 °C
- > Heating system flow temperature up to 60 °C
- > With integral heat and electricity meters

Application • The ground source heat pump set is suitable for flexible indoor installation. • Can be used in mono mode for heating and DHW operation. • Ideal for use in apartment buildings and commercial premises due to high output in a cascade and high flow temperatures. • Thanks to the compact design, only a small installation area is required.

Convenience features • The consistent source temperature ensures a constant heating output with flow temperatures of up to 60 °C all year round. • In combination with the ISG Internet Service Gateway (optional accessory), the heat pump controller (accessory) can be used to control the system via the home network or a mobile device. • With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally; a 230 V signal is available for this. • Option of integration into a building automation system using a software extension. • The robust single compressor heat pump unit is equipped with a scroll compressor and a stainless steel plate heat exchanger. Safety equipment is integrated, such as a high/low pressure switch and frost protection. The refrigerant circuit is hermetically sealed, tested for leaks at the factory and filled with safety refrigerant R410A. • Corrosion-protected casing components made from white powder coated, hot-dip galvanised sheet steel.

Efficiency • The heat pump unit is equipped with a scroll compressor with a soft starter and optimised heat exchangers for improved efficiency.

Installation • Hydraulic connectors have screw fittings for straightforward installation.





| | | WPF 10 M | WPF 13 M | WPF 16 M |
|--|-------|----------------------|----------------------|----------------------|
| Part number | | 185349 | 182135 | 220894 |
| Specification | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A+ | A++ | A+ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A+ | A++ | A+ |
| Heating output at B0/W35 (EN 14511) | kW | 10.02 | 12.98 | 16.99 |
| COP at B0/W35 (EN 14511) | | 4.49 | 4.57 | 4.35 |
| SCOP (EN 14825) | | 5.075 | 5.125 | 4.875 |
| Sound power level (EN 12102) | dB(A) | 51 | 53 | 53 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 |
| Height | mm | 960 | 960 | 960 |
| Width | mm | 510 | 510 | 510 |
| Depth | mm | 680 | 680 | 680 |
| Weight | kg | 112 | 120 | 12! |
| Rated voltage, compressor | V | 400 | 400 | 400 |
| Refrigerant | | R410A | R410A | R410 <i>F</i> |
| Recommended accessories | | | | |
| Part number | | 161696 | 161696 | 161696 |
| Туре | | MEG 30 | MEG 30 | MEG 30 |
| Description | | Heat transfer medium | Heat transfer medium | Heat transfer medium |

Fixed speed

| | WPF 10 M | WPF 13 M | WPF 16 M |
|-------------|--|--|--|
| Part number | 221382 | 221382 | 221382 |
| Туре | DWS1 Soledruckwächter | DWS1 Soledruckwächter | DWS1 Soledruckwächter |
| Description | Brine pressure switch | Brine pressure switch | Brine pressure switch |
| Part number | 229336 | 229336 | 229336 |
| Туре | ISG web | ISG web | ISG web |
| Description | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway |
| Part number | 233307 | 233307 | 233307 |
| Туре | WPSF | WPSF | WPSF |
| Description | WPSF Multifunctional brine charging unit | WPSF Multifunctional brine charging unit | WPSF Multifunctional brine charging unit |

Short term (max. 30 min) HS temperature up to 40 $^{\circ}$ C permissible. (Product: 185349, 182135, 220894)

Fixed speed

WPF 20-66



WPF 20

Benefits

- > Ground source heat pump for flexible use
-) Low operating costs due to high coefficient of performance all year round
- > Suitable for use in residential and commercial buildings due to high output
- > Where available space is limited, two appliances can be installed one above the other
- > High reliability thanks to robust single compressor design

Application • The ground source heat pump can be installed either indoors or outdoors with weather protection.
• Suitable for apartment buildings and commercial applications due high outputs: 66 kW per individual appliance or up to 400 kW in a cascade. • With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or for simultaneous heating and cooling. • Optimised for space saving installation, because 2 appliances can be installed one above the other. • Can be used in mono mode for heating and DHW operation.

Convenience features • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate for quiet operation. • The system can be controlled via the home network or a mobile device. This is achieved by combining the heat pump controller (accessory) with the Internet Service Gateway (ISG) as an optional accessory. With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally via a 230 V signal. • The system can be integrated into an existing building automation system if required using a software extension. • Safety equipment is integrated, such as a high/low pressure switch and frost protection. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel with an alpine white stove enamelled finish.

Efficiency • The heat pump unit is equipped with a scroll compressor with a soft starter and optimised stainless steel heat exchangers for improved efficiency.

Installation • To facilitate installation in confined spaces, it is possible to reduce the standard unit to a width of 800 mm for transport. Fixing points for lifting eyes are also provided.













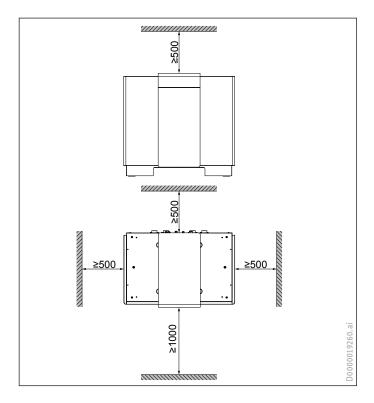


| | | WPF 20 | WPF 27 | WPF 35 | WPF 40 | WPF 52 | WPF 66 |
|--|-------|--------|--------|--------|--------|--------|--------|
| Part number | | 233003 | 233004 | 233005 | 233006 | 233007 | 233008 |
| 6 17 17 | | | | | | | |
| Specification | | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ | A++ | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A+++ | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ | A++ | A++ | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 21,5 | 29,69 | 38,04 | 43,1 | 55,83 | 67,10 |
| COP at B0/W35 (EN 14511) | | 4.66 | 4.85 | 4.78 | 4.67 | 4.81 | 4.56 |
| SCOP (EN 14825) | | 5.00 | 5.28 | 5.20 | 5.05 | 5.20 | 4.95 |
| Sound power level (EN 12102) | dB(A) | 54 | 55 | 55 | 58 | 58 | 59 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 | 60 | 60 | 60 |
| Height | mm | 1154 | 1154 | 1154 | 1154 | 1154 | 1154 |
| Width | mm | 1242 | 1242 | 1242 | 1242 | 1242 | 1242 |
| Depth | mm | 860 | 860 | 860 | 860 | 860 | 860 |
| Weight | kg | 345 | 367 | 391 | 415 | 539 | 655 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 400 | 400 | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 400 | 400 | 400 | 400 | 400 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |

Ground source heat pumps – fixed speed Fixed speed

| | WPF 20 | WPF 27 | WPF 35 | WPF 40 | WPF 52 | WPF 66 |
|-------------------------|--|--|--|--|--|--|
| Required accessories | | | | | | |
| Part number | 236000 | 236000 | 236000 | 236000 | 236000 | 236000 |
| Туре | WPM interna- tional |
| Description | Heat pump manager in wall mounted enclo- sure |
| Recommended accessories | | | | | | |
| Part number | 161696 | 161696 | 161696 | 161696 | 161696 | 161696 |
| Туре | MEG 30 |
| Description | Heat transfer medium |
| Part number | 221382 | 221382 | 221382 | 221382 | 221382 | 221382 |
| Туре | DWS1 Soledruck- wächter |
| Description | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch |
| Part number | 222375 | 222375 | | | | |
| Туре | WPSB 308 E | WPSB 308 E | | | | |
| Description | Brine assembly for the heat source system | Brine assembly for the heat source system | | | | |
| Part number | 229336 | 229336 | 229336 | 229336 | 229336 | 229336 |
| Туре | ISG web |
| Description | Internet Service Gateway |
| DHW cylinder | | | | | | |
| Part number | 229982 | 229982 | 229982 | 229982 | 229982 | 229982 |
| Туре | SBS 1001 W |
| Description | Instantaneous water cylinders |
| Part number | 229983 | 229983 | 229983 | 229983 | 229983 | 229983 |
| Туре | SBS 1501 W |
| Description | Instantaneous water cylinders |
| Buffer cylinder | | | | | | |
| Part number | 227564 | 227564 | | | | 227564 |
| Туре | SBP 1000 E | SBP 1000 E | | | | SBP 1000 E |
| Description | Buffer cylinder | Buffer cylinder | | | | Buffer cylinder |
| Part number | | | 227565 | 227565 | 227565 | |
| Туре | | | SBP 1500 E | SBP 1500 E | SBP 1500 E | |
| Description | | | Buffer cylinder | Buffer cylinder | Buffer cylinder | |

Minimum clearance diagram



Fixed speed

WPF 27 HT



Benefits

- > Ground source heat pump for flexible use
- > High degree of DHW convenience with flow temperatures of up to 75 °C
-) Low operating costs due to high coefficient of performance all year round
- > Suitable for use in residential and commercial buildings due to high output
- > Ideal for DHW heating in a cascade of ground source heat pumps
- > Where available space is limited, two appliances can be installed one above the other
- > High reliability thanks to robust single compressor design

Application • The ground source heat pump is suitable for indoor installation, or outdoor installation with weather protection. • Suitable for apartment buildings and commercial applications due high outputs: 66 kW per individual appliance or up to 400 kW in a cascade. • With the help of additional hydraulic components, the existing source system can be used for passive and active cooling, or for simultaneous heating and cooling. • Optimised for space saving installation, because 2 appliances can be installed one above the other. • Can be used in mono mode for heating and DHW operation.

Convenience features • To minimise the transfer of structure-borne sound to the building, the refrigerant circuit is mounted on an anti-vibration base plate for quiet operation. • The system can be controlled via the home network or a mobile device. This is achieved by combining the heat pump controller (accessory) with the Internet Service Gateway (ISG) as an optional accessory. With integral heat and electricity metering via refrigerant circuit data. • Fault messages can be processed externally via a 230 V signal. • The system can be integrated into an existing building automation system if required using a software extension. • Safety equipment is integrated, such as a high/low pressure switch and frost protection. • The metal casing is corrosion-protected and made from hot-dip galvanised, powder coated sheet steel with an alpine white stove enamelled finish.

Efficiency • The heat pump unit: The heat pump unit is equipped with a scroll compressor with soft starter and optimised stainless steel heat exchangers for improved efficiency.

Installation • To facilitate installation in confined spaces, it is possible to reduce the standard unit to a width of 800 mm for transport. In addition, there are fixing points on the standard appliance for lifting eyes.















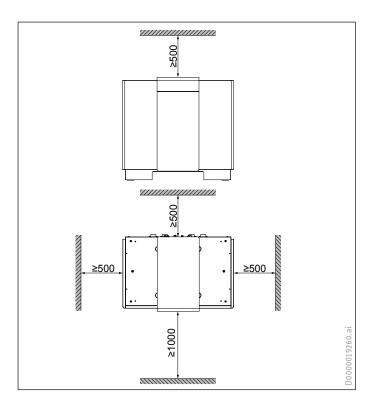
| | | WPF 27 HT |
|--|-------|-----------|
| Part number | | 233009 |
| | | |
| Specification | | |
| Energy efficiency class, heat pump W35 | | A+++ |
| Energy efficiency class, heat pump W55 | | A++ |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ |
| Heating output at B0/W35 (EN 14511) | kW | 27,41 |
| COP at B0/W35 (EN 14511) | | 4.34 |
| SCOP (EN 14825) | | 4.58 |
| Sound power level (EN 12102) | dB(A) | 60 |
| Max. application limit on the heating side | °C | 75 |
| Height | mm | 1154 |
| Width | mm | 1242 |
| Depth | mm | 860 |

Ground source heat pumps – fixed speed Fixed speed

| | | WPF 27 HT |
|--|----|---|
| Weight | kg | 409 |
| Rated voltage, compressor | V | 400 |
| Rated voltage, emergency/aux- iliary heater | V | 400 |
| Refrigerant | | R134a |
| | | |
| Required accessories | | |
| Part number | | 236000 |
| Туре | | WPM international |
| Description | | Heat pump manager in wall mounted enclosure |
| Recommended accessories | | |
| Part number | | 161696 |
| Туре | | MEG 30 |
| Description | | Heat transfer medium |
| Part number | | 221382 |
| Туре | | DWS1 Soledruckwächter |
| Description | | Brine pressure switch |
| Part number | | 229336 |
| Туре | | ISG web |
| Description | | Internet Service Gateway |
| | | <u>,</u> |
| DHW cylinder | | |
| Part number | | 229982 |
| Туре | | SBS 1001 W |
| Description | | Instantaneous water cylinders |
| Part number | | 229983 |
| Туре | | SBS 1501 W |
| Description | | Instantaneous water cylinders |
| Buffer cylinder | | |
| Part number | | 227564 |
| | | 22/304 SBP 1000 E |
| Type | | |
| Description | | Buffer cylinder |

Fixed speed

Minimum clearance diagram



Fixed speed

WPF 20-32 Set



WPF 20 Set

Benefits

- > Ground source heat pump for heating
- A kit for connecting up the heating and heat source pipework is included
- > Heat pump manager included in the pack
- > Heating system flow temperature up to 60 °C
- > The heat source system (WQA) can be used between -5 °C and +20 °C
- > With integral heat and electricity meters
-) It is possible to install a shared or separate brine circulation pump

Heat pump set in various output classes. • The sets each comprise two WPF M heat pumps, a pipework set for heating and heat source, and the heat pump manager. • The modular design enables sizing in line with the heat demand, as well as 2-stage output matching subject to outside temperature. • The heat pumps are equipped with a hermetically sealed compressor, starting current limiter, condenser, evaporator, safety equipment such as high and low pressure limiters, and frost protection. They are filled with safety refrigerant R410A.





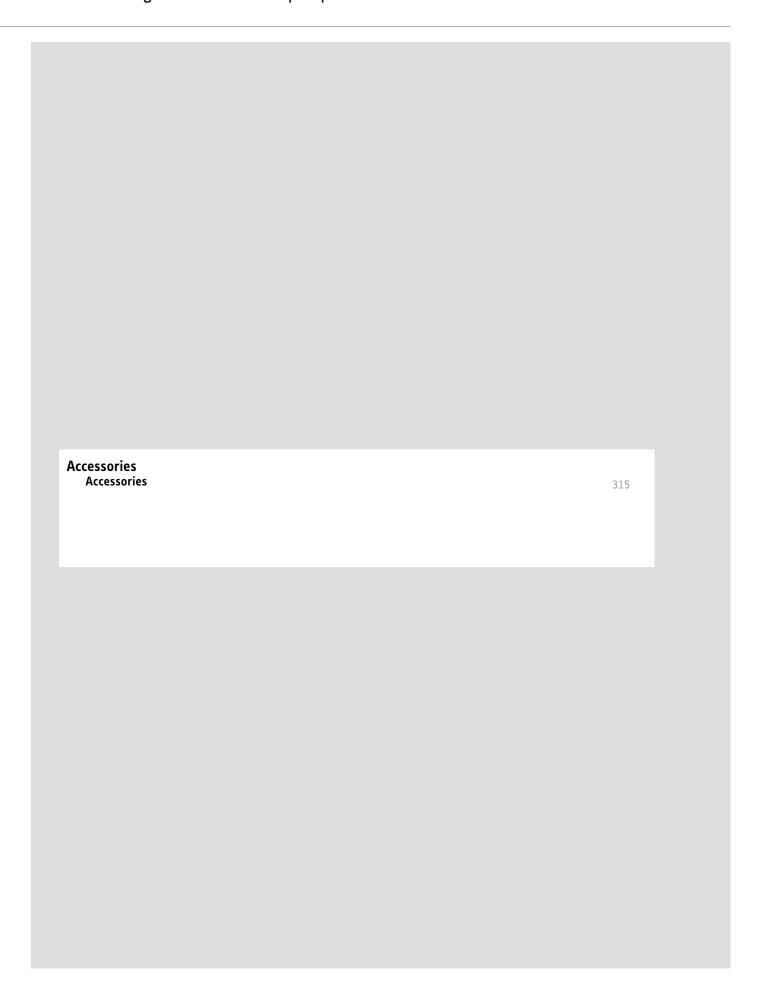
| | | WPF 20 Set | WPF 23 Set | WPF 26 Set | WPF 29 Set | WPF 32 Set |
|--|----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|
| Part number | | 185365 | 185366 | 182139 | 220896 | 22089 |
| Specification | | | | | | |
| Energy efficiency class, heat pump W35 | | A+++ | A+++ | A+++ | A+++ | A++- |
| Energy efficiency class, heat pump W55 | | A++ | A++ | A++ | A++ | A+- |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | | A+++ | A+++ | A+++ | A+++ | A++- |
| Energy efficiency class, com- posite system (heat pump + controller) W55 | | A++ | A++ | A++ | A++ | A+- |
| Heating output at B0/W35 (EN 14511) | kW | 20.04 | 23.00 | 25,96 | 29.94 | 33.98 |
| COP at B0/W35 (EN 14511) | | 4.49 | 4.54 | 4.57 | 4.44 | 4.3 |
| Max. application limit on the heating side | °C | 60 | 60 | 60 | 60 | 6 |
| Height | mm | 960 | 960 | 960 | 960 | 96 |
| Width | mm | 1240 | 1240 | 1240 | 1240 | 124 |
| Depth | mm | 680 | 680 | 680 | 680 | 68 |
| Weight | kg | 224 | 232 | 240 | 245 | 25 |
| Rated voltage, compressor | V | 400 | 400 | 400 | 400 | 40 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410 |
| Recommended accessories | | | | | | |
| Part number | | 161696 | 161696 | 161696 | 161696 | 16169 |
| Туре | | MEG 30 | MEG 30 | MEG 30 | MEG 30 | MEG 3 |
| Description | | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer medium | Heat transfer mediun |
| Part number | | 221382 | 221382 | 221382 | 221382 | 22138 |
| Туре | | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck- wächter | DWS1 Soledruck wächte |
| Description | | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch | Brine pressure switch |
| Part number | | 229336 | 229336 | 229336 | 229336 | 22933 |
| Туре | | ISG web | ISG web | ISG web | ISG web | ISG we |
| Description | | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway | Internet Service Gateway | Internet Service Gatewa |

Fixed speed

| | WPF 20 Set | WPF 23 Set | WPF 26 Set | WPF 29 Set | WPF 32 Set |
|-----------------|----------------------------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|
| DHW cylinder | | | | | |
| Part number | 229982 | 229982 | 229982 | 229982 | 229982 |
| Туре | SBS 1001 W | SBS 1001 W | SBS 1001 W | SBS 1001 W | SBS 1001 W |
| Description | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Part number | 229983 | 229983 | 229983 | 229983 | 229983 |
| Туре | SBS 1501 W | SBS 1501 W | SBS 1501 W | SBS 1501 W | SBS 1501 W |
| Description | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders | Instantaneous water cylinders |
| Buffer cylinder | | | | | |
| Part number | 227564 | 227564 | 227564 | | |
| Туре | SBP 1000 E | SBP 1000 E | SBP 1000 E | | |
| Description | Buffer cylinder | Buffer cylinder | Buffer cylinder | | |
| Part number | | | | 227565 | 227565 |
| Туре | | | | SBP 1500 E | SBP 1500 E |
| Description | | | | Buffer cylinder | Buffer cylinder |

The weight is split approx. equally over both heat pumps. (Product: 185365, 185366, 182139, 220896, 220897)

Ground source and water source heat pumps Accessories for ground source heat pumps



Accessories

UPF



Benefits

- with connecting cable and non-return valve (Product: 232532)
- with connecting cable (Product: 235053)

Circulation pump with vapour diffusion-proof thermal insulation. Energy efficient thanks to integral electronic output control for constant or variable differential pressure. The circulation pump is suitable for operation on the heat source side of ground source heat pumps.

UPF 30/1-8 E

| | | UPF 30/1-8 E | UPF 30/1-12 E | UPF 40/1-8 E | UPF 50/1-12 E |
|--|------|--------------|---------------|--------------|---------------|
| Part number | | 232532 | 235053 | 227413 | 227414 |
| Specification | | | | | |
| Energy Efficiency Index EEI | | 0.23 | 0.23 | 0.23 | 0.23 |
| Connection | | G 2 | G 2 | DN 40 | DN 50 |
| Delivery head | m | 8.00 | 12.00 | 8.00 | 12.00 |
| Max. flow rate | m³/h | 8.00 | 10.00 | 15.00 | 29.00 |
| Power consumption | W | 8-130 | 16-310 | 12-310 | 25-590 |
| Rated voltage | ٧ | 230 | 230 | 230 | 230 |
| Control via 0-10 V signal with IF module | | - | - | - | - |
| Control via differential pressure | | х | х | X | Х |
| Control via PWM signal | | - | - | - | - |
| Installation length (centre distance) | mm | 180 | 180 | 220 | 280 |

GWS 1/2



Benefits

- > For the use of groundwater as a heat source in ground source heat pumps
- > Thermally insulated casing

Application • Groundwater station, for the use of groundwater as a heat source in ground source heat pumps. • The station module comprises a corrosion-resistant stainless steel plate heat exchanger, two 3-way diverter valves as shut-off valves with drain & fill valves, and a duplex casing made from thermally insulating plastic. • The groundwater station can be rotated 180° for connection on the left or right of the heat pump, depending on the situation. Alternative application: use of ground source heat pumps with non-approved heat transfer media.

GWS 1

| | | GWS 1 | GWS 2 |
|---|------|---------|---------|
| Part number | | 230659 | 230660 |
| | | | |
| Specification | | | |
| Connection, heat pump | | 28 mm | 28 mm |
| Connection, heat source side | | G 1 1/4 | G 1 1/4 |
| Chlorine heat transfer medium | mg/l | <0.5 | <0.5 |
| Chloride heat transfer medium | mg/l | <300 | <300 |
| Iron and manganese heat transfer medium | mg/l | <0.5 | <0.5 |
| Height | mm | 630 | 630 |

Continue on next page >

Accessories

| | | GWS 1 | GWS 2 |
|--------|----|-------|-------|
| Width | mm | 640 | 640 |
| Depth | mm | 230 | 230 |
| Weight | kg | 20.50 | 26.50 |

WPSR



Benefits

› Quick and straightforward installation

Assembly with wall mounting bracket for the heat source system of the ground source heat pump, for quick and straightforward installation. The standard delivery includes a high efficiency brine circuit pump, including shut-off valves and insulation shell, brine-resistant diaphragm expansion vessel, pressure gauge, safety valve and drain valve.

WPSB 308 E

| | | WPSB 308 E |
|------------------------|-----------|---------------------------|
| Part number | | 222375 |
| | | |
| Specification | | |
| Cincolation norms tons | | |
| Circulation pump type | | Stratos PARA 30/1-8 E |
| Flow rate | m³/h | Stratos PARA 30/1-8 E 2.0 |
| | m³/h m | |
| Flow rate | | 2.0 |

WPSF



Benefits

- > Microbubble separator and filter already integrated (Product: 233307)
- > Filter element easy to remove (Product: 233307)
- > All important components for the source side are pre-assembled (Product: 233307)

Multifunction filling unit for ground source heat pumps with a heating output of up to 16 kW. Used for filling and flushing the brine circuit and for quick and easy installation on the heat source side. Standard delivery includes a brine safety valve, pressure gauge, filter, quick-action air vent valve, microbubble separator and vapour diffusion-proof insulation.

WPSF

| | WPSF |
|-------------|--------|
| Part number | 233307 |

Accessories

| | | WPSF |
|-------------------------------------|-----|-----------|
| Specification | | |
| Connection, heat source side | | G 1 1/4 A |
| Safety valve response pressure | MPa | 0.30 |
| Max. application limit, heat source | °C | 40 |
| Min. application limit, heat source | °C | -5 |
| Max. operating pressure | MPa | 0.60 |

DWS



Benefits

› Adjustable switching point

Application • Brine pressure switch for the geothermal collectors and probes in accordance with VDI 4640 for leak detection. • The switching point can be set between 0.08 MPa and 0.15 MPa. If an audible or visual signal is required, an additional appropriate signal transmitter can be installed.

DWS1 Soledruckwächter

| | DWS1 Soledruckwächter |
|-------------|-----------------------|
| Part number | 221382 |

Included in standard delivery: pressure hose

AG



Benefits

- > For wall mounting (Product: 235218, 235219, 235220)
- > For floorstanding installation (Product: 235221)

Brine-resistant diaphragm expansion vessel for ground source heat pumps. With rolling diaphragm for pressure maintenance and volume compensation for the heat source side.

MAG 12

| | | MAG 12 | MAG 18 | MAG 25 | MAG 50 |
|---------------------|-----|--------|--------|--------|--------|
| Part number | | 235218 | 235219 | 235220 | 235221 |
| Specification | | | | | |
| Expansion vessel | I | 12 | 18 | 25 | 50 |
| Pre-charge pressure | bar | 0.50 | 0.50 | 0.50 | 0.50 |

Accessories

MEG



Heat transfer medium for ground source heat pumps, to protect against frost and corrosion on the heat source side.

MEG 30

| | | MEG 30 |
|-------------------------------|---|-----------------|
| Part number | | 161696 |
| | | |
| Specification | | |
| Type of liquid | | Ethylene glycol |
| Type of liquid Liquid content | 1 | 30 |

The concentrate must be mixed with water prior to filling the heat source system. Observe the mixing ratio shown in the heat pump instructions. Heat transfer medium MEG, mix with water prior to filling into the system.

Never use potassium carbonate in connection with hemp gaskets. (Product: 161696)

FS-WP



Benefits

- > With backflushing facility (Product: 233511)
- > With a removable filter (Product: 233512)

Filter to protect the ground source heat pump against contamination. Installed in the return of the heat generator.

FS-WP 22

| | FS-WP 22 | FS-WP 28 |
|---------------|-------------------|-------------------------|
| Part number | 233511 | 233512 |
| Specification | | |
| Connection | G 1 A / Cu 22 x 1 | G 1 1/4 A / Cu 28 x 1.5 |

Accessories

MFS-WP



Benefits

) With removable filter element, pressure gauge and ball valve (Product: 235234)

Filter to protect the ground source heat pump against contamination. Installed in the return of the heat generator. Integral pressure gauge shows the system pressure.

MFS-WP 28

| | MFS-WP 28 |
|---------------|-------------------------|
| Part number | 235234 |
| | |
| Specification | |
| Connection | G 1 1/4 A / Cu 28 x 1.5 |

SDB 40-50 G



Pressure hose for brine flow and return lines. With threaded fitting on one side and locking ring fitting on the other. Uninsulated.

SDB 40-0.8 G

| | SDB 40-0.8 G | SDB 50-0.8 G |
|---------------------------|--------------|--------------|
| Part number | 201713 | 201714 |
| Specification | | |
| For pressure hose size DN | 40 | 50 |

Accessories

EM 33-87



Benefits

- > Extension module for extended WPMG controller functions
- > Suitable for installation in the heat pump

Extension module for actuating other functions and integrating additional heating circuits or heat generators, for example.

EM 33-87

| | EM 33-87 |
|-------------|----------|
| Part number | 201715 |

EMW 33-87



Benefits

- > Extension module for extended WPMG controller functions
-) A wall mounted enclosure for installation direct onto the wall is included in the standard delivery

Extension module for actuating additional functions such as other heating circuits or heat generators. Supplied with wall mounted enclosure.

EMW 33-87

| | | EMW 33-87 |
|--------------------------|----|-----------|
| Part number | | 202062 |
| | | |
| Specification | | |
| Width | mm | 300 |
| Width Height Depth | mm | 180 |
| Depth | mm | 109 |

Accessories

HG Set 33-87



Benefits

) Hot gas set

Set for DHW heating via hot gas. It consists of a circulation pump and a line regulating valve.

HG Set 33-87

| | | WG 5 1-2 -2- |
|-------------------|---|--------------|
| | | HG Set 33-87 |
| Part number | | 201716 |
| | | |
| Specification | | |
| Power consumption | W | 6 |
| Rated voltage | V | 230 |

FE 33-87



Benefits

> Remote control for adjusting room temperature or heating circuit temperature

Remote control for combining with the WPMG controller. The integral sensor captures the room temperature in the lead room; the room temperature or set temperature can be adjusted.

FE 33-87

| | FE 33-87 |
|-------------|----------|
| Part number | 201767 |

Heat pumps Accessories for heat pumps and cylinders

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Accessories for heat pumps and cylinders Control units

| Controller Accessories | 325 |
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Controller

WPM



WPM international

Benefits

- > Heat pump manager in stylish wall mounted enclosure
- > Management of a two-stage on/off or inverter cascade for one direct heating circuit and two heating circuits with mixers
- > Straightforward electrical installation thanks to RAST 5 connector technology
-) Integral heat metering
- > Cooling control function
- A second heat generator can be controlled
- Screed drying program
- > DHW circulation pump management
- > PWM circulation pump management
- > Three immersion/contact sensors and one outside sensor are included in the standard delivery
- > Fault output 230 V
-) Update via an SD card
- › An internet interface is available as an option
- > SG Ready (optional)
- > Smart home and energy management interfaces (optional)

Application • The heat pump manager (WPM) is the main controller in the system. One direct and two heating circuits with mixer can be controlled via the integral programming unit. Two heat pumps can also be operated in a cascade. • If the WPM is combined with the Internet Service Gateway (ISG), the heat pump can be integrated into a home network or controlled from mobile devices. • Direct connection of high efficiency circulation pumps is possible via relay outputs or PWM outputs. • The WPM also provides a fault contact for external pick-up of system faults. • A drip-proof wall mounted enclosure with large installation area provides sufficient space for the electrical connections and other components such as the top-hat rail relays. • A well designed cable layout ensures easy connection.

| | | WPM international |
|------------------|----|-------------------|
| Part number | | 236000 |
| | | |
| Specification | | |
| Protection class | | I |
| Supply voltage | V | 230 |
| IP rating | | IP 21 |
| Width | mm | 310 |
| Height | mm | 400 |
| Depth | mm | 100 |

(Product: 236000)

WPE



WPE

Benefits

- > Function extension module for the WPM heat pump manager
- › Data link via the system bus
- > Straightforward electrical installation thanks to RAST 5 connector technology
- > The sensor is adjusted and operated via the programming unit on the WPM heat pump manager
- Management of four additional heat pump stages
- > Two additional heating circuits with mixer can also be controlled
- > Swimming pool management
- > Universal differential controller
- > Three immersion/contact sensors are included in the standard delivery

Application • The WPE adds numerous functions to the WPM heat pump manager. It offers two additional heating circuits with mixer, a swimming pool controller and cascade control for up to six heat pumps. • Two additional 0-10 V interfaces, a differential controller and switching outputs are also available. • The enclosure is installed to the right or left of the WPM and is connected with it to the power supply and via the bus. • The module's additional functions can be set at the programming unit of the WPM.

| | WPE |
|-------------|--------|
| Part number | 234725 |

Controller

| | | WPE |
|----------------------|----|---|
| Specification | | |
| Protection class | | 1 |
| Supply voltage | V | 230 |
| IP rating | | IP 21 |
| Width | mm | 310 |
| Height | mm | 400 |
| Depth | mm | |
| | | |
| Required accessories | | |
| Part number | | 236000 |
| Туре | | WPM international |
| Description | | Heat pump manager in wall mounted enclosure |

Connectivity

ISG web



Benefits

- > Browser-based operation of the heat pump in a home network
- > Can be integrated into home automation systems through Modbus TCP/IP software interface fitted as standard
- > Forecast-based on-site PV self-consumption facilitated by optional EMI software extension
- > Optional automation with KNX IP software extension

Application • The Internet Service Gateway (ISG) connects the heat pump to the home network and enables the appliance to be operated using a computer or tablet browser. • Once enabled, appliance data is transferred to the Stiebel Eltron Internet Service Portal. • The ISG plus is a required accessory for use of the SG Ready functions of the heat pump manager (WPM). The ISG can be integrated into an existing building management system via the Modbus TCP/IP data interface.

ISG web

| | | ISG web |
|-----------------------------|----|---------------|
| Part number | | 229336 |
| | | |
| Specification | | |
| Version | | Wall mounting |
| 10/100 Ethernet | | RJ45 |
| CAN | | RJ45 |
| RS232 | | RJ 12 |
| Width | mm | 158 |
| Height | mm | 95 |
| Depth | mm | 37 |
| Min./max. application range | °C | 0 / 60 |

Observe the compatibility list.

Controller accessories

FE7



Benefits

- > The integral sensor captures the room temperature
- > Choice of operating mode
- Remote control for the WPM heat pump manager

Analogue remote control with integral temperature sensor to capture room temperature. The remote control is used to adjust the set room temperature and adapt operating modes.

FE 7 Fernbedienung

| | | FE 7 Fernbedienung |
|--------------------|----|--------------------|
| Part number | | 185579 |
| Specification | | |
| Width | mm | 80 |
| Width Height Depth | mm | 80 |
| Depth | mm | 30 |

FEK 2



Benefits

- > Room temperature and humidity measurement
-) Dew point monitoring
- > Convenient entry and display of system parameters

FEK digital remote control for convenient entry and display of system parameters (e.g. operating modes, outside temperature, relative humidity and heating circuit parameters). For cooling via an area heating system, the FEK must be installed in a reference room. It measures relative humidity and room temperature for dew point monitoring.

FEK2

| | | FEK2 |
|--------------------------|----|--------|
| Part number | | 200168 |
| | | |
| Specification | | |
| Width | mm | 147 |
| Height | mm | 97 |
| Width Height Depth | mm | 33 |

Controller accessories

FET



Benefits

-) Data link via the system bus
- > Remote room control with thermostatic function for the WPM heat pump manager
- Can be used for each of the five heating circuits in the WPM system
- > Illuminated graphic display
- > Display of time, room temperature and room humidity, along with outside temperature
- > Touch-Wheel operation
- > Room temperature and humidity measurement
- > Simple adjustment of comfort temperature
- > Energy savings with selectable eco function
- > Activating a DHW charging process

FET

FET digital remote control for convenient control of a heating zone. The remote control measures the relative humidity and room temperature.

| | | FET |
|--------------------------|----|--------|
| Part number | | 234723 |
| | | |
| Specification | | |
| Width | mm | 145 |
| Height | mm | 96 |
| Width Height Depth | mm | 31 |

TAF P1



PT 1000 sensor. It can be used in heat pump systems as an immersion sensor or contact sensor.

TAF PT 5m

| | TAF PT 5m | TAF PT 2m |
|---------------|----------------------------------|--------------------|
| Part number | 235995 | 235996 |
| Specification | | |
| | | |
| Version | Temperature sensor | Temperature sensor |
| | Temperature sensor • | Temperature sensor |
| Version | Temperature sensor • white | |

(Product: 235995, 235996)

Controller accessories

AF PT



Outside temperature sensor in plastic casing, without power cable.

AF PT

| | | AF PT |
|-------------------|----|-----------------|
| Part number | | 235997 |
| | | |
| Specification | | |
| Version | | Outside sensor |
| Installation type | | Surface mounted |
| With supply line | | - |
| Width | mm | 40 |
| Height | mm | 82 |
| Depth | mm | 38 |

AVF 6



PTC contact sensor as additional sensor for the heat pump system.

AVF 6 Anlegefühler

| | | AVF 6 Anlegefühler |
|--|----|--------------------|
| Part number | | 165341 |
| | | |
| Specification | | |
| Version | | Cable sensor |
| With supply line | | • |
| With supply line Supply line length Diameter | m | 2.00 |
| Diameter | mm | 6 |

Controller accessories

TF 6



TF 6 as an additional PTC immersion sensor for the heat pump system.

TF 6 Tauchfühler

| | | TF 6 Tauchfühler |
|-------------------------------------|----|--------------------|
| Part number | | 165342 |
| | | |
| Specification | | |
| Version | | Temperature sensor |
| With supply line | | • |
| With supply line Supply line length | m | 1.00 |
| Diameter | mm | 6 |

WPM-RBS





Benefits

- > Relay set for connecting high efficiency pumps
- The integral relay PCB provides up to six inputs and outputs
- The assembly is connected via Rast 5 plug-in connectors with screw terminals
- > When using the Wilo Yonos UP 25/7.5 PCV (235949) circulation pump series, the relay set is not required.

Relay connecting assembly for high efficiency pumps with a high starting current.

WPM-RBS

| | | WPM-RBS |
|--|----|---------|
| Part number | | 230381 |
| | | |
| Specification | | |
| Max. peak load current | Α | 65 |
| Max. relay output breaking capacity | Α | 2 (2) |
| Max. power across terminal "Netz-L" [mains L] | Α | 10 |
| Supply voltage | V | 230 |
| IP rating | | IP 31 |
| Width | mm | 205 |
| Height | mm | 211 |
| Depth | mm | 56 |

Accessories for heat pumps and cylinders Hydraulic modules Mono mode Accessories 333

Hydraulic modules

Mono mode

нм

НМ



Benefits

- > Time saving installation of heating components thanks to high level of integration
- > Simple connection to the heat pump via water pipes
- > Very good thermal insulation for heating and cooling, with main body in expanded polypropylene (EPP) and high grade sheet steel casing

Application • Hydraulic module for simple hydraulic connection of mono block heat pumps to the heating system. Designed for heating or cooling in family homes. Space saving wall mounting in the installation room, robust painted steel casing with insulated EPP main body.

Convenience features • Fully automatic, weather-compensated control of the heating system thanks to integral heat pump manager. In combination with the optional Internet Service Gateway (ISG), the heating system can be controlled via the home network or using a mobile device. With integral heat and electricity metering via refrigerant circuit data.
• High level of integration, with the following components housed inside the casing: high efficiency circulation pump and expansion vessel for the heating circuit, electric emergency/auxiliary heater for mono energetic operation and pasteurisation, diverter valve for DHW heating and a safety valve with discharge hose.

| | | нм | HMS |
|--|-----|---------------------------------|---------------------------------|
| Part number | | 233010 | 233827 |
| Specification | | | |
| Max. permissible pressure | MPa | 0.30 | 0.30 |
| External available pressure differential at 1.0 m³/h | hPa | 715 | 715 |
| External available pressure differential at 1.5 m³/h | hPa | 661 | 661 |
| External available pressure differential at 2 m³/h | hPa | 468 | 468 |
| External available pressure differential at 2.5 m³/h | hPa | 300 | 300 |
| Expansion vessel volume | 1 | 24 | 24 |
| Rated voltage, control unit | V | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 230 |
| Power consumption, emergen- cy/auxiliary heater | kW | 8.80 | 5.90 |
| Height | mm | 896 | 896 |
| Height incl. connector block | mm | 1131 | 1131 |
| Width | mm | 590 | 590 |
| Depth | mm | 405 | 405 |
| Weight | kg | 45 | 45 |
| Connection | | G 1 | G 1 |
| Recommended accessories | | | |
| Part number | | 232806 | 232806 |
| Туре | | ASL-HM | ASL-HM |
| Description | | Insulated connector block | Insulated connector block |
| Part number | | 233750 | 233750 |
| Туре | | AS-HM Trend | AS-HM Trend |
| Description | | Hydraulic module connection set | Hydraulic module connection set |

Hydraulic modules

Mono mode

HM Trend



HM Trend

Benefits

- > Time saving installation of heating components thanks to high level of integration
- > Simple connection to the heat pump via water pipes

Application • Hydraulic module for simple hydraulic connection of mono block heat pumps to the heating system. Designed for heating or cooling in family homes. • Space saving wall mounting of the insulated, black EPP casing in the installation room.

Convenience features • Fully automatic, weather-compensated control of the heating system thanks to integral heat pump manager. In combination with the optional Internet Service Gateway (ISG), the heating system can be controlled via the home network or using a mobile device. With integral heat and electricity metering via refrigerant circuit data. • High level of integration – a high efficiency circulation pump and an expansion vessel are already included for the heating circuit. Also integrated are the electric emergency/auxiliary heater for mono energetic operation and pasteurisation, the diverter valve for DHW heating and a safety valve with discharge hose.

| | | HM Trend | HMS Trend |
|---|-----|---------------------------------|---------------------------------|
| Part number | | 232805 | 233826 |
| Specification | | | |
| Max. permissible pressure | MPa | 0.30 | 0.30 |
| External available pressure differential at 1.0 m³/h | hPa | 715 | 715 |
| External available pressure differential at 1.5 m³/h | hPa | 661 | 661 |
| External available pressure differential at 2 m³/h | hPa | 468 | 468 |
| External available pressure differential at 2.5 m³/h | hPa | 300 | 300 |
| Expansion vessel volume | - 1 | 24 | 24 |
| Rated voltage, control unit | V | 230 | 230 |
| Rated voltage, emergency/aux- iliary heater | V | 400 | 230 |
| Power consumption, emergen- cy/auxiliary heater | kW | 8.80 | 5.90 |
| Height | mm | 896 | 896 |
| Height incl. connector block | mm | 1131 | 1131 |
| Width | mm | 590 | 590 |
| Depth | mm | 405 | 405 |
| Weight | kg | 27 | 27 |
| Connection | | G 1 | G 1 |
| Recommended accessories | | | |
| Part number | | 232806 | 232806 |
| Туре | | ASL-HM | ASL-HM |
| Description | | Insulated connector block | Insulated connector block |
| Part number | | 233750 | 233750 |
| Туре | | AS-HM Trend | AS-HM Trend |
| Description | | Hydraulic module connection set | Hydraulic module connection set |

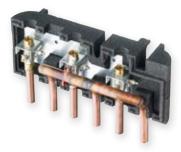
Accessories for heat pumps and cylinders Accessories for hydraulic modules



Accessories for hydraulic modules

Accessories

ASL-HM



Accessories which facilitate connection of the hydraulic module to the pipework on site. Flows with ball valve, and heating and DHW return coated with vapour diffusion-proof EPP

ASL-HM

| | | ASL-HM |
|-------------------------------|----|--------|
| Part number | | 232806 |
| | | |
| Specification | | |
| Height | mm | 285 |
| Width | mm | 580 |
| Depth Weight Connection | mm | 215 |
| | | |
| Weight | kg | 4.50 |

AS-HM Trend

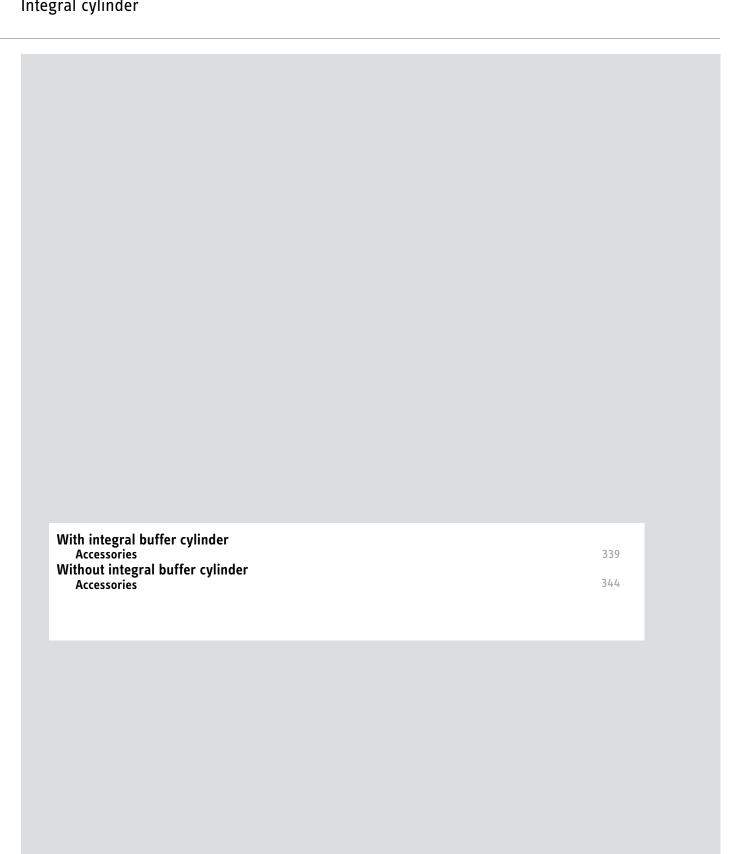


The accessory, featuring ball valves in the flows, simplifies connection of the hydraulic module to the on-site pipework.

AS-HM Trend

| | AS-HM Trend |
|---------------|-------------|
| Part number | 233750 |
| Specification | |
| Connection | G 1 - 28 mm |

Accessories for heat pumps and cylinders Integral cylinder



With integral buffer cylinder

HSBC 300 cool



HSBC 300 cool

Benefits

- > NEW: The integral WPM heat pump manager makes the system easier to install
- > The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- > Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- › Large area heat exchanger for high DHW demand
- > Can be used for cooling via area heating system or fan convectors (condensation resistance)

Application • Integral cylinder for DHW heating in heat pump mode. • Prepared for optional addition of another heating circuit. • The cylinder simplifies hydraulic connection in heating systems, as the heat pump and heating circuit flows are separated by means of an integral buffer cylinder. This means that it can be used in different heat distribution systems. • Can be used for heating and cooling in a detached house (new or existing building).

Convenience features • DHW cylinder and buffer cylinder are steel cylinders with directly applied foam insulation. The DHW cylinder is equipped with an internal indirect coil and magnesium signal anode for additional corrosion protection. The two cylinders are installed space-efficiently one above the other, and each have practical recessed grips. • Space saving installation through integration of key components in a single casing: WPM heat pump manager, cylinder charging pump, heating circuit pump, 3/2-way diverter valve. • Easy to handle, as the DHW cylinder and the buffer cylinder can be transported separately.

Efficiency • Low standby losses, because both the cylinder volume and the heat exchanger surface area are matched to the requirements.

| | | HSBC 300 cool |
|--|-----|-----------------------------|
| Part number | | 203801 |
| | | |
| Specification | | |
| Energy efficiency class | | В |
| Nominal capacity, DHW cyl- inder | 1 | 270 |
| Nominal capacity, buffer cyl- inder | 1 | 100 |
| Surface area, heat exchanger | m² | 3.20 |
| Capacity, heat exchanger | 1 | 21 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.45 |
| Height | mm | 1918 |
| Width | mm | 680 |
| Depth | mm | 910 |
| Height when tilted | mm | 2123 |
| Weight | kg | |
| Recommended accessories | | |
| | | |
| Part number | | 238825 |
| Type | | HSBC 3-HKM |
| Description | | Mixer circuit pump assembly |

Availability on request

With integral buffer cylinder

HSBC 300 (L) cool



HSBC 300 L coo

Benefits

- > The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- > Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- > High level of integration for reduced installation effort
- > Large cylinder volume and heat exchanger surface area for high DHW demand
- > Can be used for cooling, e.g. via an area heating system or fan convectors (condensation resistance)
- > Not equipped with a cylinder charging pump for combination with recommended heat pump types (Product: 238826)

Application • Integral cylinder for DHW heating and simultaneous hydraulic connection to heating systems and for pumping and separation between the heat pump and heating circuit. Optimised for combination with heat pumps with integral controller and circulation pump. Designed for use in detached houses for heating and cooling.

Convenience features • The generously sized DHW cylinder has a steel cylinder with directly applied foam insulation.
• The internal indirect coil and magnesium signal anode offer additional corrosion protection.
• Equipped with a heating circuit pump and 3/2-way diverter valve.
• The integral cylinder can optionally be operated with a heating circuit with mixer.
• The cylinder casing consists of a plastic jacket in pure white, permanently attached at the sides and the back. The removable front panel is made of sheet metal in white with a design fascia in Eloxal silver.

Efficiency • Standby losses are low, because the cylinder volume and the indirect coil surface area have been optimised

Installation • Integral recessed grips facilitate transport to the installation site.

| | | HSBC 300 L cool |
|--|-----|-----------------------------|
| Part number | | 238826 |
| | | |
| Specification | | |
| Energy efficiency class | | В |
| Nominal capacity, DHW cyl- inder | 1 | 270 |
| Nominal capacity, buffer cylinder | 1 | 100 |
| Surface area, heat exchanger | m² | 3.20 |
| Capacity, heat exchanger | | 21 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.45 |
| Height | mm | 1918 |
| Width | mm | 680 |
| Depth | mm | 910 |
| Height when tilted | mm | 2123 |
| Weight | kg | 248 |
| Recommended accessories | | |
| Part number | | 238825 |
| Туре | | HSBC 3-HKM |
| Description | | Mixer circuit pump assembly |

With integral buffer cylinder

HSBC 200



HSBC 200

Benefits

- > The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- > Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- > Installation requires little effort thanks to high level of integration including WPM heat pump manager
- > Can be used for cooling, for example with an area heating system
- > Large area heat exchanger for high DHW demand

Application • Integral cylinder for DHW heating and simultaneous hydraulic connection to heating systems and for pumping and separation between the heat pump and heating circuit. Designed for use in detached houses for heating and cooling.

Convenience features • DHW cylinder and buffer cylinder are steel cylinders with directly applied foam insulation. The DHW cylinder is equipped with an internal indirect coil and magnesium signal anode for additional corrosion protection. The two cylinders are installed space-efficiently one above the other, and each have practical recessed grips. • Space saving installation through integration of key components in a single casing: WPM heat pump manager, cylinder charging pump, heating circuit pump, 3/2-way diverter valve. • Easy to handle, as the DHW cylinder and the buffer cylinder can be transported separately. • The integral cylinder can optionally be operated with a heating circuit with mixer. • The cylinder casing consists of a plastic jacket in pure white, permanently attached at the sides and the back. • The removable front panel is made of sheet metal in white with a design fascia in Eloxal silver.

Efficiency • Standby losses are low, because the cylinder volume and the indirect coil surface area are perfectly matched to the system.

Installation • The cylinders are arranged one above the other and can be separated. Two recessed grips facilitate transport to the installation site.

| | | HSBC 200 | HSBC 200 S |
|--|-----|-----------------------------|-----------------------------|
| Part number | | 233510 | 234801 |
| | | | |
| Specification | | | |
| Energy efficiency class | | В | В |
| Nominal capacity, DHW cyl- inder | 1 | 168 | 168 |
| Nominal capacity, buffer cyl- inder | 1 | 100 | 100 |
| Surface area, heat exchanger | m² | 3.30 | 3.30 |
| Capacity, heat exchanger | | 21 | 21 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.30 | 1.30 |
| Height | mm | 1908 | 1908 |
| Width | mm | 680 | 680 |
| Depth | mm | 871 | 871 |
| Height when tilted | mm | 2107 | 2107 |
| Weight | kg | 203 | 203 |
| Recommended accessories | | | |
| Part number | | 234648 | 234648 |
| Туре | | HSBC-HKM | HSBC-HKM |
| Description | | Mixer circuit pump assembly | Mixer circuit pump assembly |

With integral buffer cylinder

HSBC 200 L



HSBC 200 L

Benefits

- > High level of integration for reduced installation effort
- > The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- > Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- > Can be used for cooling, for example with an area heating system

Application • Integral cylinder for DHW heating and simultaneous hydraulic connection to heating systems and for pumping and separation between the heat pump and heating circuit. Designed for use in detached houses for heating and cooling

Convenience features • DHW cylinder and buffer cylinder are steel cylinders with directly applied foam insulation. The DHW cylinder is equipped with an internal indirect coil and magnesium signal anode for additional corrosion protection. The two cylinders are installed space-efficiently one above the other, and each have practical recessed grips. • Space saving installation and integral heating circuit pump• Easy to handle, as the DHW cylinder and the buffer cylinder can be transported separately. • The integral cylinder can optionally be operated with a heating circuit with mixer. • The cylinder casing consists of a plastic jacket in pure white, permanently attached at the sides and the back.

Efficiency • Standby losses are low, because the cylinder volume and the indirect coil surface area are perfectly matched to the application area.

Installation • The cylinders are arranged one above the other and can be separated. Two recessed grips facilitate transport to the installation site.

| | | HSBC 200 L |
|--|-----|-----------------------------|
| Part number | | 236684 |
| | | |
| Specification | | |
| Energy efficiency class | | В |
| Nominal capacity, DHW cyl- inder | 1 | 180 |
| Nominal capacity, buffer cyl- inder | | 100 |
| Surface area, heat exchanger | m² | 1.60 |
| Capacity, heat exchanger | | 10 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.30 |
| Height | mm | 1908 |
| Width | mm | 680 |
| Depth | mm | 800 |
| Height when tilted | mm | 2107 |
| Weight | kg | 185 |
| Recommended accessories | | |
| Part number | | 234648 |
| Туре | | HSBC-HKM |
| Description | | Mixer circuit pump assembly |

With integral buffer cylinder

HSBC 180 Plus



HSBC 180 Plus

Benefits

- > The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- > Space saving positioning thanks to integration of DHW cylinder, buffer cylinder and hydraulic working parts into a single appliance
- > Installation requires little effort thanks to high level of integration including WPM heat pump manager
- > Can be used for cooling via area heating system or fan convectors (condensation resistance)

Application • Integral cylinder for DHW heating in combination with a heat pump. The cylinder simplifies hydraulic connection in heating systems, as the heat pump and heating circuit flows are separated by means of an integral buffer cylinder. • Designed for use in detached houses for heating and cooling.

Convenience features • Standard delivery includes: WPM heat pump manager, cylinder charging pump, heating circuit pump, 3/2 way diverter valve, safety valve with drain routed out of the appliance, and electric emergency/auxiliary heater. • The DHW cylinder is an enamelled steel cylinder with directly applied foam insulation. It is equipped with an internal indirect coil and a magnesium anode for additional corrosion protection. The buffer cylinder is also a steel cylinder with directly applied foam insulation.

Efficiency • Specific matching of the cylinder volume and the indirect coil surface area to the application ensures low standby losses.

Installation • The integral carrying aids facilitate transportation to the installation site.

| | | HSBC 180 Plus | HSBC 180 S Plus |
|--|-----|-------------------|-------------------|
| Part number | | 202927 | 203082 |
| Specification | | | |
| Energy efficiency class | | В | В |
| Nominal capacity, DHW cyl- inder | I | 178 | 178 |
| Nominal capacity, buffer cylinder | I | 80 | 80 |
| Surface area, heat exchanger | m² | 1.59 | 1.59 |
| Capacity, heat exchanger | I | 10 | 10 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.29 | 1.29 |
| Height | mm_ | 1892 | 1892 |
| Width | mm | 605 | 605 |
| Depth | mm | 917 | 917 |
| Height when tilted | mm | 2007 | 2007 |
| Weight | kg | 145 | 145 |
| Recommended accessories | | | |
| Part number | | 204642 | 204642 |
| Туре | | CDT 180 | CDT 180 |
| Description | | Cooling accessory | Cooling accessory |

Availability on request

Without integral buffer cylinder

HSBB 180 Plus



HSBB 180 Plus

Benefits

- > The integral cylinder for DHW heating is combined with a heating heat pump and integrated into the heating system.
- > Space saving positioning, as the DHW cylinder and hydraulic parts are integrated in a single appliance
- > Can be used for cooling via area heating system or fan convectors (condensation resistance)
- > Installation requires little effort thanks to high level of integration including WPM heat pump manager

Application • Integral cylinder for DHW heating. The appliance is integrated into the heating system and connects the heat pump hydraulically to the heating circuit. • The cylinder is designed for heating and cooling in the single-family house and is optimised for use with an underfloor heating system.

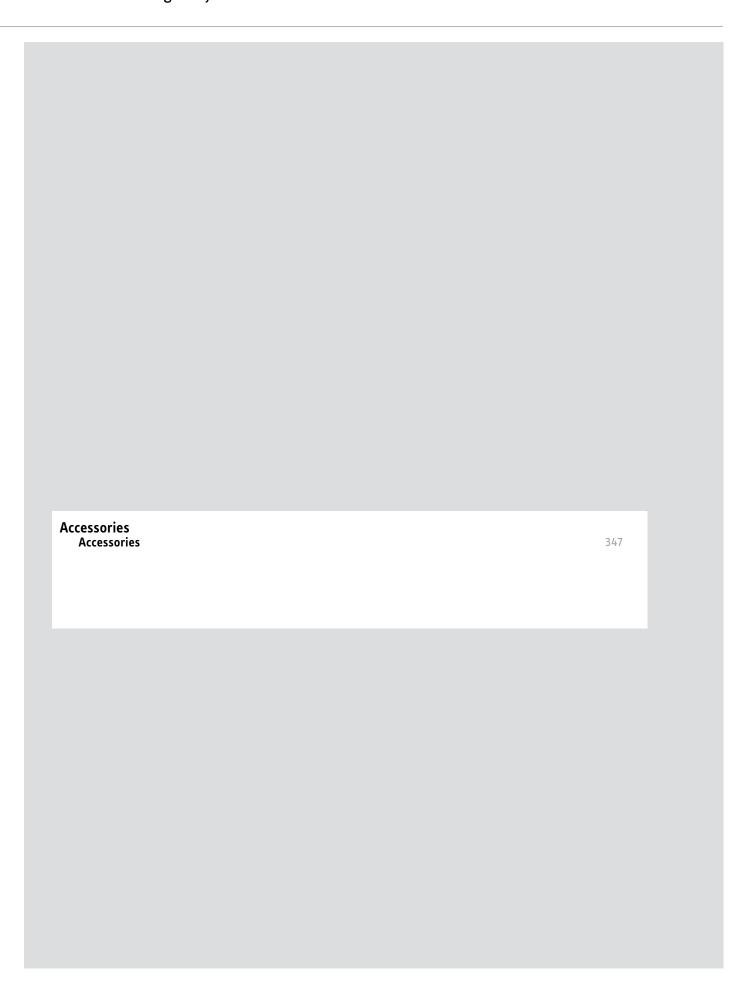
Convenience features • The DHW cylinder comprises an enamelled steel cylinder with foam insulation, an internal indirect coil and a magnesium anode for additional corrosion protection. Can be used for cooling via underfloor heating system or fan convectors. • Equipment includes: WPM heat pump manager, DHW/heating circuit charging pump, 3/2 way diverter valve, safety valve with drain connector, and electric emergency/auxiliary heater. • Easy to transport thanks to integral carrying aids.

Efficiency • Low standby losses.

| | | HSBB 180 Plus | HSBB 180 S Plus |
|--|-----|-------------------|-------------------|
| Part number | | 202926 | 203084 |
| Specification | | | |
| Energy efficiency class | | В | В |
| Nominal capacity, DHW cyl- inder | I | 178 | 178 |
| Surface area, heat exchanger | m² | 1.59 | 1.59 |
| Capacity, heat exchanger | I | 10 | 10 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.29 | 1.29 |
| Height | mm | 1280 | 1280 |
| Width | mm | 605 | 605 |
| Depth | mm | 917 | 917 |
| Height when tilted | mm | 1500 | 1500 |
| Weight | kg | 100 | 100 |
| Suitable for | | Heat pump | Heat pump |
| Recommended accessories | | | |
| Part number | | 204642 | 204642 |
| Туре | | CDT 180 | CDT 180 |
| Description | | Cooling accessory | Cooling accessory |

Availability on request

Accessories for heat pumps and cylinders Accessories for integral cylinders



Accessories for integral cylinders

Accessories

HSBC (3)-HKM



Mixer circuit pump assembly for expanding the integral cylinder with a heating circuit with mixer. The assembly comprises insulated connection pipework, the heating circuit pump and 3-way mixer with servomotor. It is intended for use inside the integral cylinder using the prepared connections.

HSBC-HKM

| | | нѕвс-нкм | HSBC 3-HKM |
|-----------------------------|----|----------|------------|
| Part number | | 234648 | 238825 |
| Specification | | | |
| Connection, heating circuit | mm | 22 | 22 |

CDT



Benefits

- > Condensate pan with condensate pump for installation in the integral cylinder
- > Used for seasonal cooling below the dew point or for cooling without dew point monitoring

Application • The condensate pan with condensate pump is intended for installation in the integral cylinder. • It is necessary for seasonal cooling below the dew point or for cooling without dew point monitoring, e.g. with fan convectors. • Without this accessory, cooling rooms is only permissible with dew point monitoring. • Standard delivery includes a condensate pan with condensate pump incl. hose for external drainage, a wiring harness for the electrical connection and installation accessories.

CDT 180

| | CDT 180 |
|-------------|---------|
| Part number | 204642 |

Accessories for heat pumps and cylinders DHW cylinder DHW cylinder Accessories 349

DHW cylinder DHW cylinder

SBB 301-501 WP SOL



SBB 301 WP

Benefits

- > DHW cylinders for use in combination with heating heat pumps
- > Large mixed water volume due to matched inlet and outlet flow technology
- › Large area heat exchanger for high DHW demand
- > Installation-friendly fittings including signal anode and flexible, multi-directional cold water connection
- > Additional application range thanks to integral solar indirect coil (type-dependent)
- > Additional application range thanks to integral solar indirect coil (Product: 221362, 227534)

Application • DHW cylinder for operation with heat pumps. The cylinder can be used for DHW supply in family homes and apartment buildings, depending on the nominal capacity and the indirect coil surface area.

Convenience features • The enamelled steel cylinder with foam insulation is equipped with an inspection flange and a protective anode for additional corrosion protection. The heat pump is connected via the internal indirect coil. A plug-in dial thermometer is included in the standard delivery. • The cylinder casing can be removed for transport to the installation site. The plastic outer cover is white and the plinth trim is basalt grey.

| | | SBB 301 WP | SBB 302 WP | SBB 401 WP SOL | SBB 501 WP SOL |
|--|-----|------------|------------|----------------|----------------|
| Part number | | 221360 | 221361 | 221362 | 227534 |
| Specification | | | | | |
| Energy efficiency class | | С | C | C | C |
| Nominal capacity | I | 301 | 290 | 395 | 495 |
| Surface area, heat exchanger, top | m² | 3.20 | 4.80 | 4.00 | 5.00 |
| Surface area, heat exchanger, bottom | | | | 1.40 | 1.40 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 2.10 | 2.10 | 2.40 | 2.40 |
| Height | mm | 1710 | 1710 | 1880 | 1988 |
| Diameter incl. thermal insulation | mm | 700 | 700 | 750 | 810 |
| Height when tilted | mm | 1,750 | 1,750 | 1,930 | 2,035 |
| Weight | kg | 156 | 184 | 219 | 260 |

SB-VTI 100-500



Benefits

- > DHW cylinders for use in combination with heating heat pumps
- > Slimline design due to simple insulation concept
- > Heat exchanger surface areas matched to the DHW performance of the recommended heat pump types

Application • The DHW cylinder for heat pump operation was developed for use in family homes. • The enamelled steel cylinder with directly applied foam insulation in the sheet steel jacket is equipped with an inspection flange and a protective anode for additional corrosion protection. • An internal indirect coil for connecting the heat pump.

SB-VTI 100

| | | SB-VTI 100 | SB-VTI 150 | SB-VTI 200 | SB-VTI 300 | SB-VTI 400 | SB-VTI 500 |
|-------------------------------|----|------------|------------|------------|------------|------------|------------|
| Part number | | 200156 | 200157 | 200158 | 200159 | 200160 | 200161 |
| | | | | | | | |
| Specification | | | | | | | |
| Energy efficiency class | | В | С | С | С | C | С |
| Nominal capacity | | 113 | 147 | 192 | 295 | 412 | 496 |
| Surface area, heat exchanger, | m² | 1.00 | 1.10 | 1.30 | 1.50 | 1.90 | 2.30 |

DHW cylinder

DHW cylinder

| | | SB-VTI 100 | SB-VTI 150 | SB-VTI 200 | SB-VTI 300 | SB-VTI 400 | SB-VTI 500 |
|--|-----|------------|------------|------------|------------|------------|------------|
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.10 | 1.40 | 1.50 | 2.20 | 2.50 | 2.70 |
| Height | mm | 1022 | 1262 | 1574 | 1552 | 1543 | 1813 |
| Diameter incl. thermal insulation | mm | 550 | 550 | 550 | 650 | 750 | 750 |
| Height when tilted | mm | 1,180 | 1,400 | 1,700 | 1,730 | 1,700 | 1,970 |
| Weight | kg | 66 | 81 | 96 | 126 | 188 | 213 |

SB-VTH 100-150



SB-VTH 100

Benefits

- > Hydraulic connections on the top of the appliance
- > Directly applied foam insulation in a sheet steel jacket
- > Protective anode for corrosion protection as standard
- > Adjustable feet for levelling on uneven floors

Application • The DHW cylinder is suitable for indirect DHW heating in heating systems and for supplying multiple draw-off points in a family home.

Convenience features • The enamelled steel cylinder with directly applied foam insulation in the sheet steel jacket is equipped with an inspection flange and a protective magnesium anode for additional corrosion protection. • Internal indirect coil for connection of the heat generator. • The cylinder thermostat signals a heat demand when the selected set temperature is undershot. • Plug-in dial thermometer included in the standard delivery.

| | | SB-VTH 100 | SB-VTH 120 | SB-VTH 150 |
|--|-----|------------|------------|------------|
| Part number | | 200153 | 200154 | 200155 |
| Specification | | | | |
| Energy efficiency class | | В | C | C |
| Nominal capacity | I | 94 | 115 | 150 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.10 | 1.30 | 1.50 |
| Height | mm | 938 | 1067 | 1307 |
| Diameter | mm | 550 | 550 | 550 |
| Weight, empty | kg | 58 | 65 | 76 |

STD 315-520-1 Plus



STD 315-1 Plus

Benefits

- > Low standby losses for efficient operation
- > Protective anode for corrosion protection as standard

| Part number 201705 | | STD 315-1 Plus | STD 420-1 Plus | STD 520-1 Plus |
|-----------------------------|-------------|----------------|----------------|----------------|
| Fait Hullidel 204/85 204/85 | Part number | 204784 | 204785 | 204786 |

DHW cylinder

DHW cylinder

| | | STD 315-1 Plus | STD 420-1 Plus | STD 520-1 Plus |
|--|-----|----------------|----------------|----------------|
| Specification | | | | |
| Energy efficiency class | | В | В | В |
| Nominal capacity | I | 314 | 418 | 522 |
| Surface area, heat exchanger, top | m² | 2.00 | 2.60 | 3.20 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.70 | 1.80 | 1.90 |
| Height | mm | 1619 | 1799 | 1904 |
| Diameter incl. thermal insulation | mm | 650 | 730 | 780 |
| Height when tilted | mm | 1,750 | 1,946 | 2,063 |
| Weight | kg | 111 | 139 | 182 |

SBB 600-1000 WP SOL



SBB 600 WP SOL

Ranafits

- › Additional application range thanks to integral solar indirect coil
- > DHW cylinder for combination with heating heat pumps with high output
- Large heat exchanger surface area for high DHW demand through the use of twin pipe indirect coils

Application • The DHW cylinder is suitable for heat pump operation with a high output, depending on nominal capacity and indirect coil surface area, for use in larger family homes and apartment buildings, as well as commercial buildings. • Optional integration of solar thermal backup is possible.

Convenience features • The enamelled steel cylinder is equipped with a signal anode for additional corrosion protection. • Features two internal twin pipe indirect coils: the lower coil connects to the solar thermal system whilst the upper coil connects to the heat pump. • For heat pumps with a higher output, the two indirect coils can be connected in series. • The inspection flanges are sealed with blank flanges and can be fitted with additional heat exchangers or flanged immersion heaters if required.

Efficiency • Low standby losses in connection with thermal insulation as an accessory. • Matched inlet and outlet technology for good temperature stratification.

| Specification Height | | | SBB 600 WP SOL | SBB 800 WP SOL | SBB 1000 WP SOL |
|--|-------------------------|----|--------------------|--------------------|--|
| Height mm 1775 1943 215 Height when tilted mm 1,813 1,990 2,18 Weight kg 256 302 32 Required accessories Part number 235909 Type WDH 600 SBB Description Thermal insulation Part number 235910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 1000 SB Thermal insulation Recommended accessories | Part number | | 235906 | 235907 | 235908 |
| Height mm 1775 1943 215 Height when tilted mm 1,813 1,990 2,18 Weight kg 256 302 32 Required accessories Part number 235909 Type WDH 600 SBB Description Thermal insulation Part number 235910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 800 SBB Description Thermal insulation Part number 325910 Type WDH 1000 SB Thermal insulation Recommended accessories | | | | | |
| Height when tilted mm 1,813 1,990 2,18 Weight kg 256 302 32 Required accessories Part number Type WDH 600 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Type WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 1000 SB Thermal insulation Recommended accessories | Specification | | | | |
| Weight kg 256 302 32 Required accessories Part number Type WDH 600 SBB Description Thermal insulation Part number WDH 800 SBB Description Thermal insulation Part number WDH 1000 SB Type WDH 1000 SB Description Thermal insulation Recommended accessories Thermal insulation | Height | mm | 1775 | 1943 | 2153 |
| Required accessories Part number 235909 Type WDH 600 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Thermal insulation Thermal insulation Part number Type WDH 1000 SB Thermal insulation Thermal insulation Thermal insulation | Height when tilted | mm | 1,813 | 1,990 | 2,185 |
| Part number Type WDH 600 SBB Description Thermal insulation Part number Type WDH 800 SBB Description WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 1000 SB Thermal insulation Type WDH 1000 SB Description Thermal insulation | Weight | kg | 256 | 302 | 321 |
| Part number Type WDH 600 SBB Description Thermal insulation Part number Type WDH 800 SBB Description WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 1000 SB Thermal insulation Type WDH 1000 SB Description Thermal insulation Thermal insulation | | | | | |
| Type WDH 600 SBB Description Thermal insulation Part number 235910 Type WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number WDH 1000 SB Description Thermal insulation Recommended accessories | Required accessories | | | | |
| Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 1000 SB Description Thermal insulation | Part number | | 235909 | | |
| Part number Type WDH 800 SBB Description Thermal insulation Part number Type WDH 1000 SB Description Thermal insulation Thermal insulation Thermal insulation Type WDH 1000 SB Thermal insulation | Type | | WDH 600 SBB | | |
| Type WDH 800 SBB Description Thermal insulation Part number Type WDH 1000 SB Description Thermal insulation Recommended accessories | Description | | Thermal insulation | | |
| Description Thermal insulation Part number Type WDH 1000 SB Description Thermal insulation Recommended accessories | Part number | | | 235910 | |
| Part number Type WDH 1000 SB Description Thermal insulation Recommended accessories | Type | | | WDH 800 SBB | |
| Type WDH 1000 SB Description Thermal insulation Recommended accessories | Description | | | Thermal insulation | |
| Description Thermal insulation Recommended accessories | Part number | | | | 235911 |
| Recommended accessories | Type | | | | WDH 1000 SBB |
| | Description | | | | Thermal insulation |
| | | | | | |
| Part number 232629 232629 232629 | Recommended accessories | | | | |
| | Part number | | 232629 | 232629 | 232629 |
| Type WRV 40 WRV 40 WRV 40 | Туре | | WRV 40 | WRV 40 | WRV 40 |
| | Description | | | | Corrugated pipe connector for indirect coils |

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

⁽Product: 235906)The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 235907)The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors.

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 235908)

DHW cylinder DHW cylinder

SBB 751-1001 (SOL)



SBB 751

Benefits

- > DHW cylinder for combination with heating heat pumps with high output
- > DHW heating in heat pump mode in connection with an external charging station (accessory)
- > Additional application range thanks to integral solar indirect coil (type-dependent)
- Additional application range thanks to integral solar indirect coil (Product: 229294, 229295)

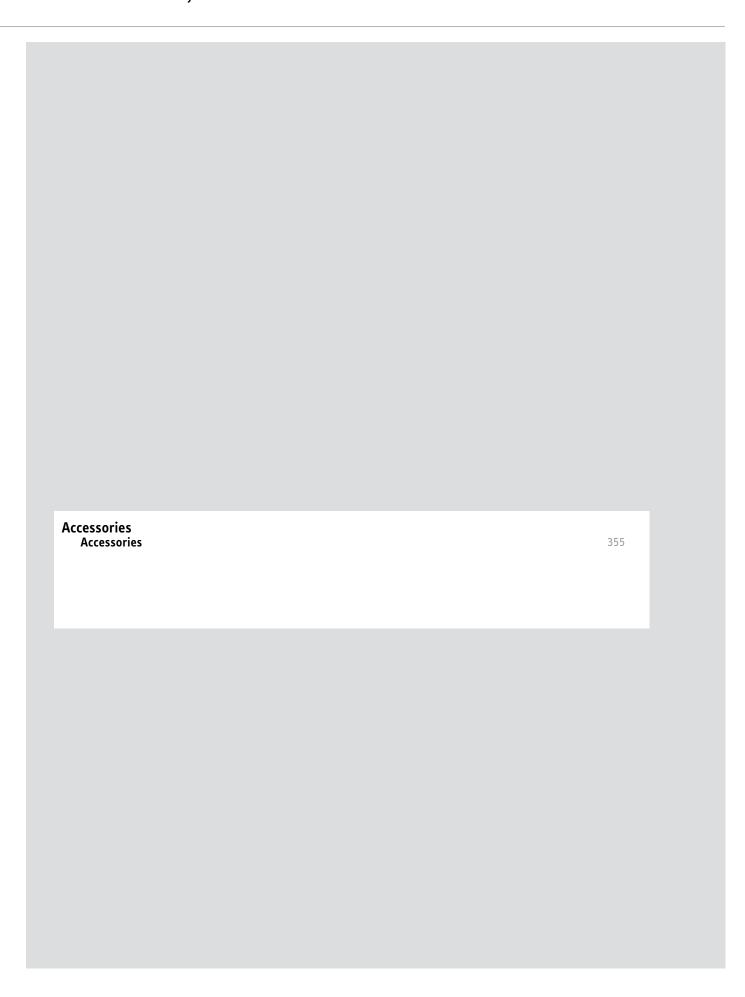
Application • The DHW cylinder, in conjunction with powerful heat pumps, is suitable for use in apartment buildings or commercial buildings. Intended for use in combination with a charging station as an accessory for DHW heating outside of the cylinder and subsequent storage. • Optional integration of solar thermal backup is possible with SOL types.

Convenience features • The enamelled steel cylinder is equipped with a signal anode for additional corrosion protection. • The radial DHW inlet optimises stratification in the cylinder. • The inspection flanges are sealed with blank flanges and can be fitted with additional heat exchangers or flanged immersion heaters. • The SOL types have an internal smooth tube solar indirect coil.

Efficiency • Low standby losses in connection with thermal insulation as an accessory. Matched inlet and outlet technology for good temperature stratification.

| | | SBB 751 | SBB 751 SOL | SBB 1001 | SBB 1001 SOL |
|----------------------|----|--------------------|--------------------|--------------------|--------------------|
| Part number | | 229292 | 229294 | 229293 | 229295 |
| Specification | | | | | |
| Height | mm | 1777 | 1777 | 2277 | 2277 |
| Height when tilted | mm | 1,840 | 1,840 | 2,335 | 2,335 |
| Weight | kg | 210 | 242 | 267 | 296 |
| Required accessories | | | | | |
| Part number | | 231923 | 231923 | | |
| Туре | | WDH 751 SBB | WDH 751 SBB | | |
| Description | | Thermal insulation | Thermal insulation | | |
| Part number | | | | 231924 | 231924 |
| Туре | | | | WDH 1001 SBB | WDH 1001 SBB |
| Description | | | | Thermal insulation | Thermal insulation |

Accessories for heat pumps and cylinders Accessories for DHW cylinders



Accessories for DHW cylinders

Accessories

WRV 32-40



Corrugated connection pipe for linking the upper and lower indirect coils. Includes union nuts and threaded ends.

WRV 32

| | WRV 32 | WRV 40 |
|-----------------------------------|---------|--------|
| Part number | 232628 | 232629 |
| Specification | | |
| Nominal diameter, corrugated pipe | DN 32 | DN 40 |
| Union nut fitting connection | G 1 1/2 | G 2 |

WDH 600-1000 SBB



WDH 600 SBB

Benefits

- > Composite thermal insulation made from rigid foam and fleece
- > Graphite inserts for good insulation properties
- Two insulation semi-shells to make it easier to match the shape

Application • High grade thermal insulation made from EPS rigid foam with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure lowest heat losses. • The wedge-shaped cut-outs and fleece layer ensure that the thermal insulation can be optimally adapted to the cylinder. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The outer plastic jacket is white; the cover is grey. • The thermal insulation is attached by means of a quick-release hook strip.

| | | WDH 600 SBB | WDH 800 SBB | WDH 1000 SBB |
|--|-----|----------------|----------------|-----------------|
| Part number | | 235909 | 235910 | 235911 |
| | | | | |
| Specification | | | | |
| Insulation for | | SBB 600 WP SOL | SBB 800 WP SOL | SBB 1000 WP SOL |
| Thermal insulation thickness | mm | 110 | 110 | 110 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 2.70 | 3.00 | 3.40 |

Accessories for DHW cylinders

Accessories

WDH 751-1001 SBB



WDH 751 SBB

Benefits

- > Composite thermal insulation made from rigid foam and fleece
- > Graphite inserts for good insulation properties
- > Two insulation semi-shells to make it easier to match the shape

Application • High grade thermal insulation with insulated cover and floor disc. • Graphite inserts ensure low heat losses. • The wedge-shaped cut-outs and fleece layer ensure that the insulation can be matched perfectly to the cylinder. • The prepared adhesive joint in the wedge-shaped cut-outs enables adjustment to the shape prior to installation. • Outer plastic jacket in white; cover in basalt grey. • The thermal insulation is attached by means of a quick-release hook strip.

| | | WDH 751 SBB | WDH 1001 SBB |
|--|-----|---------------------|-----------------------|
| Part number | | 231923 | 231924 |
| Specification | | | |
| Insulation for | | SBB 751 and 751 SOL | SBB 1001 and 1001 SOL |
| Thermal insulation thickness | mm | 110 | 110 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 2.90 | 3.50 |

Accessories for heat pumps and cylinders Instantaneous water cylinders Instantaneous water cylinders Accessories 359

Instantaneous water cylinders

Instantaneous water cylinders

SBS 601-1501 W (W SOL)



SBS 601 W

Benefits

- > Efficient operation through inlet device for demand-dependent, zoned charging
- > Highly versatile, as it can be combined with various heat generators
- > Space saving combination of heating buffer cylinder and DHW heating in a single unit
- > Hygienic DHW heating through instantaneous water heater principle
- Additional application range thanks to integral solar indirect coil (Product: 229984, 229985, 229986, 229987)

Application • Combi instantaneous water cylinder for DHW heating. Can be used simultaneously as a buffer cylinder for hydraulic separation between the heat pump and heating circuit, and to store heating energy. For use in family homes, as well as apartment buildings with hydraulically interconnected cylinders. Optional integration of solar thermal backup is possible with "SOL" types.

Convenience features • Steel cylinder with an integral stainless steel corrugated pipe indirect coil for instantaneous DHW heating. Connectors facing the front allow various system-specific hydraulic connections. A threaded immersion heater can be installed in the inspection port, if required.

Efficiency • Low standby losses thanks to the high grade thermal insulation available as an accessory. Matched inlet and outlet technology with integral PRO temp-Flow inlets ensures good temperature stratification. Flow turbulence is reduced by up to 60 percent.

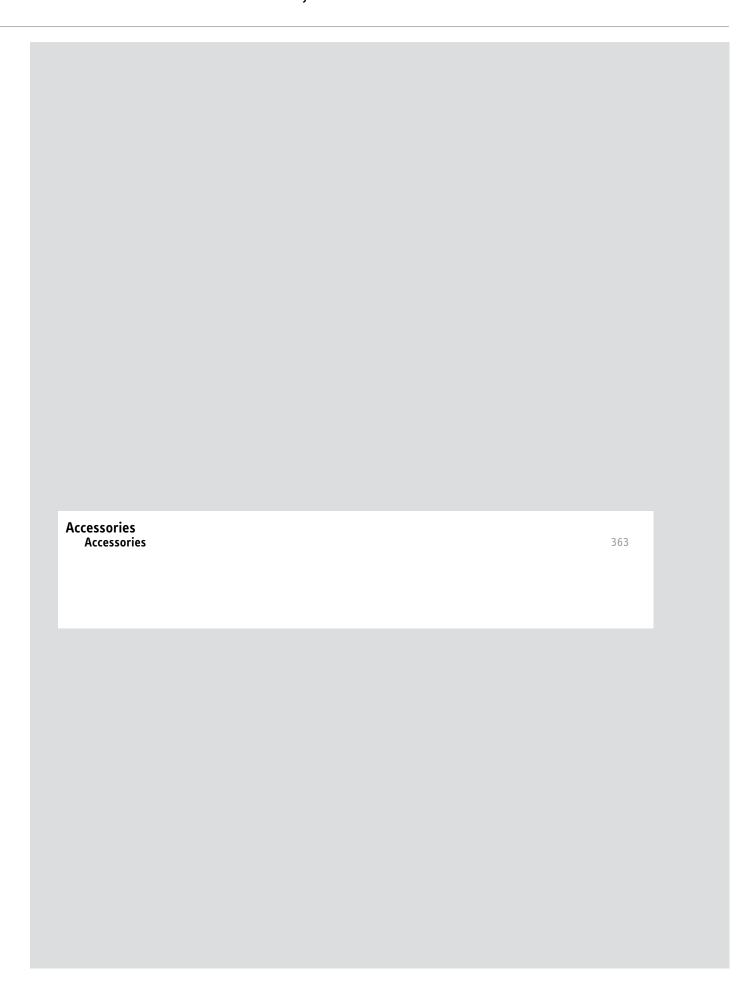
| | | SBS 601 W | SBS 601 W SOL | SBS 801 W | SBS 801 W SOL |
|--|----|--|--|--|--|
| Part number | | 229980 | 229984 | 229981 | 229985 |
| Specification | | | | | |
| Nominal capacity | 1 | 613 | 599 | 759 | 740 |
| Surface area, DHW indirect coil | m² | 6.00 | 6.00 | 6.50 | 6.50 |
| Max. recommended collector aperture area | | | 12 | | 16 |
| Height incl. thermal insulation | mm | 1,775 | 1,775 | 1,940 | 1,940 |
| Diameter incl. thermal insulation | mm | 970 | 970 | 1,010 | 1,010 |
| Height when tilted | mm | 1,840 | 1,840 | 1,880 | 1,880 |
| Weight | kg | 135 | 180 | 150 | 195 |
| Required accessories | | | | | |
| Part number | | 231925 | 231925 | | |
| Туре | | WDH 601 SBS | WDH 601 SBS | | |
| Description | | Thermal insulation | Thermal insulation | | |
| Part number | | | | 231926 | 231926 |
| Type | | | | WDH 801 SBS | WDH 801 SBS |
| Description | | | | Thermal insulation | Thermal insulation |
| Recommended accessories | | | | | |
| Part number | | 230312 | 230312 | 230312 | 230312 |
| Туре | | ZW 1 1/4 | ZW 1 1/4 | ZW 1 1/4 | ZW 1 1/4 |
| Description | | DHW circulation set, instan- taneous water cylinder |
| | | SBS 1001 W | SBS 1001 W SOL | SBS 1501 W | SBS 1501 W SOL |
| Part number | | 229982 | 229986 | 229983 | 229987 |
| Specification | | | | | |
| Nominal capacity | I | 941 | 916 | 1430 | 1399 |
| Surface area, DHW indirect coil | m² | 8.70 | 8.70 | 10.00 | 10.00 |
| Max. recommended collector aperture area | | 5,70 | 20 | | 30 |

Instantaneous water cylinders Instantaneous water cylinders

| | | SBS 1001 W | SBS 1001 W SOL | SBS 1501 W | SBS 1501 W SOL |
|-----------------------------------|----|--|--|--|--|
| Height incl. thermal insulation | mm | 2,350 | 2,350 | 2,265 | 2,265 |
| Diameter incl. thermal insulation | mm | 1,010 | 1,010 | 1,220 | 1,220 |
| Height when tilted | mm | 2,285 | 2,285 | 2,225 | 2,225 |
| Weight | kg | 175 | 220 | 236 | 291 |
| Required accessories | | | | | |
| Part number | | 231927 | 231927 | | |
| Туре | | WDH 1001 SBS | WDH 1001 SBS | | |
| Description | | Thermal insulation | Thermal insulation | | |
| Part number | | | | 231928 | 231928 |
| Туре | | | | WDH 1501 SBS | WDH 1501 SBS |
| Description | | | | Thermal insulation | Thermal insulation |
| Recommended accessories | | | | | |
| Part number | | 230312 | 230312 | 230312 | 230312 |
| Туре | | ZW 1 1/4 | ZW 1 1/4 | ZW 1 1/4 | ZW 1 1/4 |
| Description | | DHW circulation set, instan- taneous water cylinder |

The max. recommended collector aperture area relates to STIEBEL ELTRON flat-plate collectors. (Product: 229984)

Accessories for heat pumps and cylinders Accessories for instantaneous water cylinders



Accessories for instantaneous water cylinders

Accessories

WDH 601-1501 SBS



WDH 601 SBS

Benefits

- > Graphite inserts for good insulation properties
- > Two insulation semi-shells to make it easier to match the shape
- > Composite thermal insulation made from rigid foam and fleece

Application • High grade thermal insulation made from EPS rigid foam with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure lowest heat losses. • The wedge-shaped cut-outs and fleece layer ensure that the thermal insulation can be optimally adapted to the cylinder. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The outer plastic jacket is white; the cover is grey. • The thermal insulation is attached by means of a quick-release hook strip.

| | | WDH 601 SBS | WDH 801 SBS | WDH 1001 SBS | WDH 1501 SBS |
|--|-----|------------------|------------------|-------------------|-------------------|
| Part number | | 231925 | 231926 | 231927 | 231928 |
| Specification | | | | | |
| Insulation for | | SBS 601 W, W SOL | SBS 801 W, W SOL | SBS 1001 W, W SOL | SBS 1501 W, W SOL |
| Thermal insulation thickness | mm | 110 | 110 | 110 | 110 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 2.60 | 2.90 | 3.50 | 4.10 |

ZW 1 1/4



The DHW circulation set for instantaneous water cylinders ensures quick and straightforward connection of the circulation return to the DHW connection.

ZW 1 1/4

| | ZW 1 1/4 |
|----------------------------|----------|
| Part number | 230312 |
| | |
| Specification | |
| Connection | G 1 1/4 |
| DHW circulation connection | G 1/2 |

Accessories for heat pumps and cylinders Buffer cylinder

Buffer cylinder Accessories 365

Buffer cylinder

SBP 100



SBP 100

Benefits

- > Particularly space saving for use in detached houses
- > Wall mounted buffer cylinder for integration into the heating system

Application • Wall mounted buffer cylinder for hydraulic separation of the heat pump flow and heating circuit flow.

Convenience features • The steel cylinder with directly applied foam insulation is fitted with a sheet metal jacket and vent connector. An electric emergency/auxiliary heater can be retrofitted thanks to the flanged aperture. The hydraulic connections are routed through the side. The wall mounting bracket provides significantly more freedom in terms of placement.

Efficiency • Low standby losses due to efficient thermal insulation.

| | | SBP 100 |
|--|-----|---|
| Part number | | 185443 |
| | | |
| Specification | | |
| Energy efficiency class | | C |
| Nominal capacity | 1 | 100 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.40 |
| Height | mm | 955 |
| Width | mm | 510 |
| Depth | mm | 510 |
| Weight | kg | 42.50 |
| | | |
| Recommended accessories | | |
| Part number | | 074347 |
| Туре | | WPKI - V |
| Description | | Compact installation |
| Part number | | 233097 |
| Туре | | WPKI-P E |
| Description | | Compact installation, WPKI-P E |
| Part number | | 233098 |
| Туре | | WPKI-H E |
| Description | | Heating circuit assembly without mixing valve |
| Part number | | 233099 |
| Туре | | WPKI-W E |
| Description | | Compact installation |

Buffer cylinder

SBP 100 classic



SBP 100 classic

Benefits

- Suitable for heating and cooling operation as the impermeable complete foam insulation on the buffer cylinder makes it suitable for cooling
- > Particularly space saving for use in detached houses
- > Floorstanding buffer cylinder for integration into the heating system

Application • Buffer cylinder for hydraulic separation of the heat pump flow and the heating/cooling circuit flow.

Convenience features • The steel cylinder with directly applied foam insulation is equipped with a protective cover and connections at the top for ventilation and draining.

Efficiency • Reduced mixing due to matched inlet and outlet technology.

| | | SBP 100 classic |
|--|----------|-----------------|
| Part number | | 235200 |
| | | |
| Specification | | |
| Energy efficiency class | | C |
| Nominal capacity | <u>l</u> | 100 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.20 |
| Height | mm | 877 |
| Diameter | mm | 510 |
| Height when tilted | mm | 968 |
| Weight | kg | 21 |

SBP 200-700 E (SOL)



SBP 200 E

Benefits

- > Easy to transport at the installation site as the casing can be removed if necessary
- > Suitable for cooling due to complete thermal foam insulation of the cylinder
- > Efficient thermal insulation allows use in heating and cooling modes
- > Low standby losses for efficient operation
- > Buffer cylinder for heating systems with heat pumps
- Additional application range thanks to integral solar indirect coil (Product: 185460)

Application • Buffer cylinder for heat pump heating systems in family homes (depending on the nominal capacity). The buffer cylinder can also be used in cooling mode and provides hydraulic separation between the heat pump and heating circuit, extends heat pump runtimes and stores heating energy. • Designed for connecting heat pumps with high flow rates on the primary side. • Integration of solar thermal backup is possible with "SOI" types.

Convenience features • Steel cylinder with directly applied foam insulation, hydraulic connectors arranged at the front one above the other. Connectors are provided for fitting of threaded immersion heaters. "SOL" types are also equipped with one internal indirect coil for solar connection. • The cylinder casing consists of a plastic outer cover in pure white, plus cylinder cover and plinth trim in basalt grey.

Efficiency • Low standby losses.

| | SBP 200 E | SBP 400 E | SBP 700 E | SBP 700 E SOL |
|--------------------------------------|-----------|-----------|-----------|---------------|
| Part number | 185458 | 220824 | 185459 | 185460 |
| Specification | | | | |
| Energy efficiency class | В | В | | |
| Nominal capacity | 1 207 | 415 | 720 | 703 |
| Surface area, heat exchanger, bottom | | | | 2 |

Compact installation BBI 5

Buffer cylinder

Buffer cylinder

| | | SBP 200 E | SBP 400 E | SBP 700 E | SBP 700 E SOL |
|--|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.10 | 1.60 | 2.20 | 2.20 |
| Height | mm | 1535 | 1710 | 1890 | 1890 |
| Diameter incl. thermal insu- lation | mm | 630 | 750 | 910 | 910 |
| Height when tilted | mm | 1650 | 1800 | 2000 | 2000 |
| Weight | kg | 58 | 81 | 185 | 216 |
| | | | | | |
| Recommended accessories | | | | | |
| Part number | | 003711 | 003711 | 003711 | 003711 |
| Type | | Anschlusszubehör SBP | Anschlusszubehör SBP | Anschlusszubehör SBP | Anschlusszubehör SBP |
| Description | | Inserts | Inserts | Inserts | Inserts |
| Part number | | 234762 | 234762 | 234762 | 234762 |
| Туре | | WPKI 6 Set | WPKI 6 Set | WPKI 6 Set | WPKI 6 Set |
| Description | | WPKI 6 Compact installation |
| Part number | | 234763 | 234763 | 234763 | 234763 |
| Туре | | WPKI 5 | WPKI 5 | WPKI 5 | WPKI 5 |
| Description | | WPKI 5 Compact installation |
| Part number | | 234764 | 234764 | 234764 | 234764 |
| Туре | | BBI 5 | BBI 5 | BBI 5 | BBI 5 |

STH 210-720-1 Plus

Description



STH 210 Plus

Benefits

> Easy to transport at the installation site as the casing can be removed if necessary

Compact installation BBI 5

- > Suitable for cooling due to complete thermal foam insulation of the cylinder
- > Efficient thermal insulation allows use in heating and cooling modes
- > Low standby losses for efficient operation

Compact installation BBI 5

> Buffer cylinder for heat pump heating systems

Application • The buffer cylinders are suitable for heat pump heating systems and can also be used in cooling mode.
• They provide hydraulic separation between the heat pump and the heating/cooling circuit, extend heat pump runtimes and store heating energy. • Suitable for use in family homes, depending on nominal capacity. • In the case of Plus types, it is possible to integrate solar thermal backup.

Compact installation BBI 5

Convenience features • The steel cylinder with directly applied foam insulation has hydraulic connectors arranged at the front, one above the other. Connectors are also provided for electric threaded immersion heaters if required. • With Plus types, an internal indirect coil enables solar connection. • The cylinder casing consists of a plastic outer cover in pure white, plus cylinder cover and plinth trim in basalt grey.

Efficiency • Low standby losses. Designed for connecting heat pumps with high flow rates on the primary side.

| | | STH 210 Plus | STH 415 Plus | STH 720 Plus | STH 720-1 Plus |
|--|-----|--------------|--------------|--------------|----------------|
| Part number | | 203763 | 203764 | 203765 | 203766 |
| Specification | | | | | |
| Energy efficiency class | | В | В | | |
| Nominal capacity | 1 | 207 | 415 | 720 | 703 |
| Surface area, heat exchanger, bottom | | | | | 2 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.10 | 1.60 | 2.20 | 2.20 |
| Height | mm | 1535 | 1710 | 1890 | 1890 |
| Diameter incl. thermal insulation | mm | 630 | 750 | 910 | 910 |
| Height when tilted | mm | 1650 | 1800 | 2000 | 2000 |
| Weight | kg | 58 | 81 | 185 | 216 |

Buffer cylinder

| | STH 210 Plus | STH 415 Plus | STH 720 Plus | STH 720-1 Plus |
|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Recommended accessories | | | | |
| Part number | 003711 | 003711 | 003711 | 003711 |
| Туре | Anschlusszubehör SBP | Anschlusszubehör SBP | Anschlusszubehör SBP | Anschlusszubehör SBP |
| Description | Inserts | Inserts | Inserts | Inserts |
| Part number | 234762 | 234762 | 234762 | 234762 |
| Туре | WPKI 6 Set | WPKI 6 Set | WPKI 6 Set | WPKI 6 Set |
| Description | WPKI 6 Compact installation |
| Part number | 234763 | 234763 | 234763 | 234763 |
| Туре | WPKI 5 | WPKI 5 | WPKI 5 | WPKI 5 |
| Description | WPKI 5 Compact installation |
| Part number | 234764 | 234764 | 234764 | 234764 |
| Туре | BBI 5 | BBI 5 | BBI 5 | BBI 5 |
| Description | Compact installation BBI 5 |

Availability on request

SBPE 400



SBPE 400

Renefits

- > Can be used in heating or cooling mode
- > Easy to transport with recessed grips and removable casing
- > Low standby losses for efficient operation
- > Buffer cylinder for heating systems with heat pumps
- > Suitable for cooling due to complete thermal foam insulation of the cylinder
- > Quality appliance design thanks to its rectangular shape and the front panel on the cylinder casing

Application • The buffer cylinders are suitable for heat pump heating systems in family homes and can also be used in cooling mode. • They provide hydraulic separation between the heat pump and the heating/cooling circuit, extend heat pump runtimes and store heating energy.

Convenience features • Rectangular shaped cylinder with directly applied diffusion-proof foam insulation; hydraulic connections at the rear. • Integral recessed grips facilitate handling at the installation site. • If required, an electric threaded immersion heater can be fitted behind the front cover. • The cylinder casing consists of two plastic side panels and a cylinder cover finished in pure white, plus front cover in eloxal silver.

Efficiency • Low standby losses. Designed for connecting heat pumps with high flow rates on the primary side.

| | | SBPE 400 |
|--|-----|----------|
| Part number | | 235199 |
| | | |
| Specification | | |
| Energy efficiency class | | A |
| Nominal capacity | 1 | 396 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 1.30 |
| Height | mm | 1717 |
| Width | mm | 787 |
| Depth | mm | 852 |
| Height when tilted | mm | 1895 |
| Weight | kg | 131 |

Buffer cylinder

SBP 1000-1500 E SOL



SBP 1000 E

Benefits

- > Buffer cylinder for heating systems with large heat pumps
- > Highly versatile, as it can be combined with various heat generators
- > The buffer cylinder is designed for high flow rates with suitably sized flanged connections
- > Additional application range thanks to integral solar indirect coil (Product: 227566)
- > Suitable in multi storey construction thanks to extremely reliable operating pressure (Product: 236569)
- > Additional flanged connection for special applications (Product: 236569)

Application • Buffer cylinders for heating heat pumps in large systems. The cylinder enables hydraulic separation of the heat pump and heating circuit flows, extends the operating time of the heat pump and stores heating energy. Suitable for use in apartment buildings and commercial buildings.

Convenience features • Steel cylinder with flange connections arranged at the front, one above the other, for the primary and secondary circuit. There is also an additional connector for combination with further heat generators. An additional indirect coil or a flanged immersion heater can also be fitted as required for the specific system. For this purpose, a flanged aperture sealed with a blank flange has been integrated. The SOL types are, in addition, equipped with an internal smooth tube solar indirect coil.

Efficiency • Low standby losses in conjunction with the high grade thermal insulation as an accessory. Good temperature stratification due to matched inlet and outlet technology. Designed for connecting heat pumps with high flow rates on the primary side.

| | | SBP 1000 E | SBP 1000 E SOL | SBP 1010 E | SBP 1500 E | SBP 1500 E SOL |
|--------------------------------------|-----|--------------------|--------------------|--------------------|--------------------|--------------------|
| Part number | | 227564 | 227566 | 236569 | 227565 | 227567 |
| Specification | | | | | | |
| Nominal capacity | 1 | 1006 | 979 | 1006 | 1503 | 1473 |
| Surface area, heat exchanger, bottom | | | 3.00 | | | 3.60 |
| Max. permissible pressure | MPa | 0.30 | 0.30 | 1.00 | 0.30 | 0.30 |
| Height incl. thermal insulation | mm | 2340 | 2340 | 2340 | 2255 | 2255 |
| Diameter incl. thermal insulation | mm | 1010 | 1010 | 1010 | 1220 | 1220 |
| Height when tilted | mm | 2335 | 2335 | 2335 | 2250 | 2250 |
| Weight | kg | 172 | 219 | 233 | 229 | 285 |
| Required accessories | | | | | | |
| Part number | | | | 201662 | | |
| Туре | | | | WDH 1010 SBP | | |
| Description | | | | Thermal insulation | | |
| Part number | | 231929 | 231929 | | | |
| Туре | | WDH 1000 SBP | WDH 1000 SBP | | | |
| Description | | Thermal insulation | Thermal insulation | | | |
| Part number | | | | | 231930 | 231930 |
| Туре | | | | | WDH 1500 SBP | WDH 1500 SBP |
| Description | | | | | Thermal insulation | Thermal insulation |
| Recommended accessories | | | | | | |
| Part number | | 231884 | 231884 | 231884 | 231884 | 231884 |
| Туре | | BF 80 Set |
| Description | | Flange adaptor |
| Part number | | 231885 | 231885 | 231885 | 231885 | 231885 |
| Туре | | FG 80/2 Set |
| Description | | Flange adaptor |

Buffer cylinder

SBP 1000-1500 E cool



SBP 1000 E cod

Benefits

- > Suitable for either heating or cooling operation
- > Buffer cylinder for heating systems with large heat pumps
- > Suitable for cooling due to combination of thermal insulation and pre-insulated cylinder
- > Suitable in multi storey construction thanks to extremely reliable operating pressure (Product: 236570)

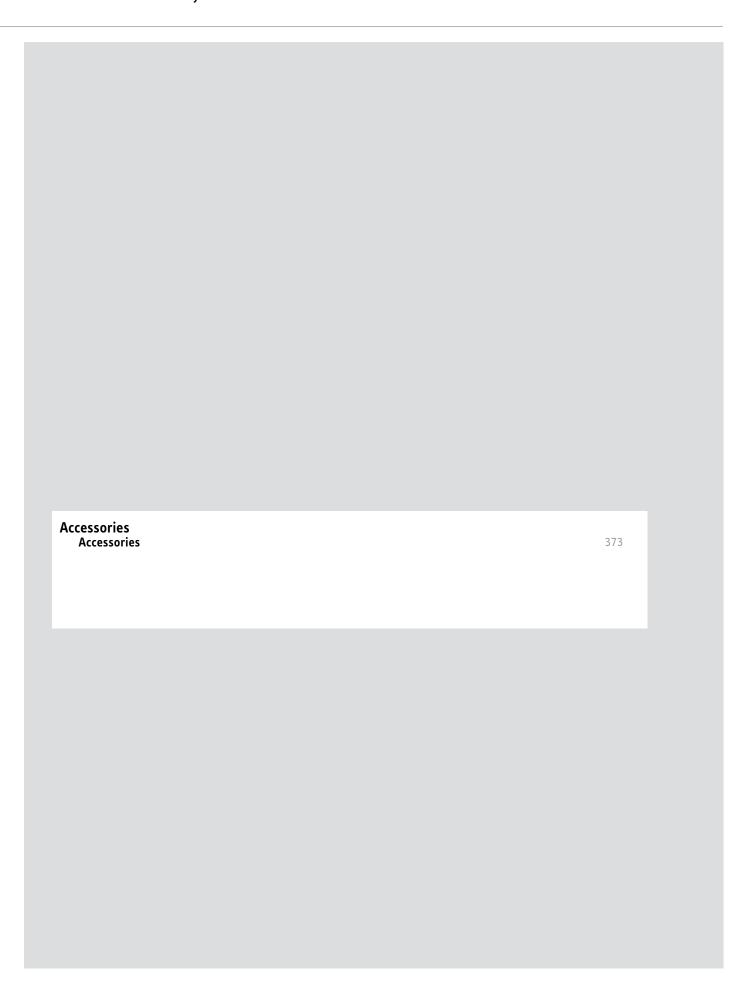
Application • Buffer cylinder for heat pumps in apartment buildings and commercial premises, for either heating or cooling operation. The cylinder enables hydraulic separation of the heat pump and heating circuit flows, extends the operating time of the heat pump and stores heating energy.

Convenience features • Pre-insulated steel cylinder with flange connections arranged at the front, one above the other, for the primary and secondary circuit. Additional connectors for combining with extra heat generators. • A flanged aperture sealed with a blank flange is provided, so that the cylinder can be fitted with an additional indirect coil or flanged immersion heater.

Efficiency • The cooling-compatible high grade thermal insulation as an accessory, together with the insulation applied to the cylinder, result in low standby losses. This combination is an essential requirement for the buffer cylinder cooling capability. • Matched inlet and outlet technology ensure good temperature stratification. • The buffer cylinder is designed for connecting heat pumps with high flow rates on the primary side.

| | | SBP 1000 E cool | SBP 1010 E cool | SBP 1500 E cool |
|--|-----|--------------------|--------------------|--------------------|
| Part number | | 227588 | 236570 | 227589 |
| Specification | | | | |
| Nominal capacity | 1 | 1006 | 1006 | 1503 |
| Max. permissible pressure | MPa | 0.30 | 1.00 | 0.30 |
| Height incl. thermal insulation | mm | 2340 | 2340 | 2255 |
| Diameter incl. thermal insu- lation | mm | 1010 | 1010 | 1220 |
| Height when tilted | mm | 2335 | 2335 | 2250 |
| Weight | kg | 181 | 242 | 239 |
| Required accessories | | | | |
| Part number | | 231921 | 231921 | |
| Туре | | WDH 1000 cool | WDH 1000 cool | |
| Description | | Thermal insulation | Thermal insulation | |
| Part number | | | | 231922 |
| Туре | | | | WDH 1500 cool |
| Description | | | | Thermal insulation |
| Recommended accessories | | | | |
| Part number | | 231884 | 231884 | 231884 |
| Type | | BF 80 Set | BF 80 Set | BF 80 Set |
| Description | | Flange adaptor | Flange adaptor | Flange adaptor |
| Part number | | 231885 | 231885 | 231885 |
| Туре | | FG 80/2 Set | FG 80/2 Set | FG 80/2 Set |
| Description | | Flange adaptor | Flange adaptor | Flange adaptor |

Accessories for heat pumps and cylinders Accessories for buffer cylinders



Accessories

WPKI 5



Benefits

- > For heating heat pumps without integral circulation pump (Product: 234763)
- > Including insulation assembly for flow/return connector (Product: 234763)
-) Integral non-return valve (Product: 234763)

Application • The compact installation includes all the components needed for the hydraulic connection of the heating heat pump to 200-700 l buffer cylinders. • The standard delivery includes: safety valve, thermometer/pressure gauge, shut-off valves, non-return valve and the option to connect an expansion vessel, plus the DHW heating set. • Compact installation is only suitable for heating heat pumps without an integral heating circuit pump.

WPKI 5

| | | WPK |
|-------------------------|-----|---------------------|
| Part number | | 2347 |
| | | |
| Specification | | |
| Connection | | G 1 1 |
| Max. operating pressure | MPa | 0.3 |
| | | |
| Required accessories | | |
| Part number | | 20162 |
| Туре | | UP 25/7.5 PC |
| Description | | Heating circuit pum |

BBI 5



Benefits

) Integral non-return valve (Product: 234764)

DHW heating set for compact installation of a buffer cylinder. Contains all required components for the hydraulic connection of heat pumps to the DHW cylinder.

BBI 5

| | | BBI 5 |
|-------------------------|-----|-----------------------------|
| Part number | | 234764 |
| | | |
| Specification | | |
| Connection | | G 1 1/4 / Cu 28 x 1.5 |
| Max. operating pressure | MPa | 0.30 |
| | | |
| Required accessories | | |
| Part number | | 201620 |
| Туре | | UP 25/7.5 PCV |
| Description | | Heating circuit pump |
| Part number | | 234763 |
| Туре | | WPKI 5 |
| Description | | WPKI 5 Compact installation |

Accessories

WPKI 6



Benefits

- > Including insulation assembly for flow/return connector (Product: 234762)
- > For heating heat pumps with integral circulation pump (Product: 234762)

Compact installation for the hydraulic connection of the heating heat pump (with integral heating circuit pump) to 200-700 I buffer cylinders. Contains all the necessary components.

WPKI 6 Set

| | | WPKI 6 Set |
|-------------------------|-----|------------|
| Part number | | 234762 |
| | | |
| Specification | | |
| Connection | | G 1 1/4 |
| Max. operating pressure | MPa | 0.30 |

ET SBP



Adaptor fittings with female threads for the hydraulic connection of buffer cylinders with 200-700 I capacity. Only required if no compact installation has been used.

Anschlusszubehör SBP

| | Anschlusszubehör SBP |
|-------------|----------------------|
| Part number | 003711 |

Accessories

WPKI-V



Benefits

> Including a connection option for DHW return (Product: 074347)

Installation set for the hydraulic connection of a ground source heat pump to a 100 litre buffer cylinder. Contains all the necessary components.

WPKI - V

| | WPKI - V |
|-------------|----------|
| Part number | 074347 |

WPKI-P E



Benefits

- > Compact installation for the connection of the heat pump to the buffer cylinder (Product: 233097)
- > Including thermal insulation (Product: 233097)

The compact installation contains all the components needed for hydraulic connection of the heating heat pump to the buffer cylinder. The safety valve, shut-off valves, non-return valve, thermometer, pressure gauge and rigid foam thermal insulation are built in. The heating circuit pump must be selected separately to suit the system.

WPKI-P E

| | WPKI-P E |
|----------------------|------------------------------|
| Part number | 233097 |
| | |
| Required accessories | |
| Part number | 185443 |
| Type | SBP 100 |
| Description | Wall mounted buffer cylinder |
| Part number | 201620 |
| Туре | UP 25/7.5 PCV |
| Description | Heating circuit pump |

Accessories

WPKI-H E



Benefits

- > Including thermal insulation (Product: 233098)
- The compact installation includes all components required for hydraulic connection to the heating circuit (Product: 233098)

The compact installation contains all the components needed for hydraulic connection of the buffer cylinder to the heating circuit side. • Standard delivery includes shut-off valves, thermometer and rigid foam thermal insulation.

• The heating circuit pump must be selected separately to suit the system.

WPKI-H E

| | WPKI-H E |
|----------------------|------------------------------|
| Part number | 233098 |
| Required accessories | |
| Part number | 185443 |
| Туре | SBP 100 |
| Type Description | Wall mounted buffer cylinder |

WPKI-W E



Benefits

- > Including thermal insulation (Product: 233099)
- > Including pump fitting (Product: 233099)

The compact installation includes all the components needed for the hydraulic connection of the heating heat pump to the DHW cylinder: shut-off valves, check valve, thermometer and rigid foam thermal insulation. • Using the kit, the buffer cylinder can be quickly and easily connected to the compact installation. • The heating circuit pump must be selected separately to suit the system.

WPKI-W E

| | WPKI-W E |
|----------------------|--------------------------------|
| Part number | 233099 |
| | |
| Required accessories | |
| Part number | 201620 |
| Туре | UP 25/7.5 PCV |
| Description | Heating circuit pump |
| Part number | 233097 |
| Туре | WPKI-P E |
| Description | Compact installation, WPKI-P E |

Accessories

BF FG 80/2



Flange adaptor for combining buffer cylinders with different threaded immersion heaters.

BF 80 Set

| | BF 80 Set | FG 80/2 Set |
|---------------------|-----------|-------------|
| Part number | 231884 | 231885 |
| | | |
| Specification | | |
| Flange diameter | DN 80 | DN 80 |
| Threaded connection | | G 2 A |

WDH 1000-1500 SBP



WDH 1010 SBP

Benefits

- > Composite thermal insulation made from rigid foam and fleece
- Graphite inserts for good insulation properties
- > Two insulation semi-shells to make it easier to match the shape

Application • High grade thermal insulation made from EPS rigid foam with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure lowest heat losses. • The wedge-shaped cut-outs and fleece layer ensure that the thermal insulation can be optimally adapted to the cylinder. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The outer plastic jacket is white; the cover is grey. • The thermal insulation is attached by means of a quick-release hook strip.

| | | WDH 1010 SBP | WDH 1000 SBP | WDH 1500 SBP |
|------------------------------|-----|--------------|----------------------|----------------------|
| Part number | | 201662 | 231929 | 231930 |
| | | | | |
| Specification | | | | |
| Insulation for | | SBP 1010 E | SBP 1000 E and E SOL | SBP 1500 E and E SOL |
| Thermal insulation thickness | mm | 110 | 110 | 110 |
| Standby energy consumption/ | kWh | 3.60 | 3.60 | 4.10 |

Accessories

WDH 1000-1500 cool



WDH 1000 cool

Benefits

- > Composite thermal insulation made from rigid foam and fleece
- > Graphite inserts for good insulation properties
- Two insulation semi-shells to make it easier to match the shape
- A pre-insulated cylinder can be used for cooling in conjunction with this thermal insulation

Application • High grade thermal insulation made from EPS rigid foam with insulated cover and floor disc. Graphite inserts in the EPS and the fleece ensure lowest heat losses. • The wedge-shaped cut-outs and fleece layer ensure that the thermal insulation can be optimally adapted to the cylinder. The prepared adhesive joints in the wedge-shaped cut-outs also contribute to this. • The outer plastic jacket is white; the cover is grey. • The thermal insulation is attached by means of a quick-release hook strip.

| | | WDH 1000 cool | WDH 1500 cool |
|--|-----|---------------|-----------------|
| Part number | | 231921 | 231922 |
| | | | |
| Specification | | | |
| Insulation for | | | SBP 1500 E cool |
| Thermal insulation thickness | mm | 110 | 110 |
| Standby energy consumption/ 24 h at 65 °C | kWh | 3.50 | 4.00 |

Electric threaded immersion heaters and flanged immersion heaters Accessories 381

Accessories for heat pumps and cylinders Additional accessories

Additional accessories

Electric threaded immersion heaters and flanged immersion heaters

SBP-HF



Flanged immersion heater for retrofitting to a wall mounted buffer cylinder.

SBP-HF

| | SBP-HF |
|-------------|--------|
| Part number | 074252 |

BGC



Ronofite

- > For matching to individual usage scenarios
- > High DHW convenience thanks to powerful heating elements
- > Variable temperature setting via rotary selector

Application • Threaded immersion heater for sealed unvented heating systems and DHW heating systems.

Convenience features • Variable temperature selection and temperature limiting possible.

Safety and quality • Integral temperature controller with high limit safety cut-out.

BGC 6 kW 500 mm ET

| | | BGC 6 kW 500 mm ET | BGC/45 | BGC 2/60 |
|------------------------|----|--------------------|--------------------|--------------------|
| Part number | | 003769 | 075115 | 232030 |
| | | | | |
| Specification | | | | |
| Connected load ~ 230 V | kW | 2-5,7 | 2-5,7 | 2-5,7 |
| Connected load ~ 400 V | kW | 6 | 6 | 6 |
| Power supply | | 1/N/PE, 2/PE, 3/PE | 1/N/PE, 2/PE, 3/PE | 1/N/PE, 2/PE, 3/PE |
| Rated voltage | V | 230/400 | 230/400 | 230/400 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 |
| Version | | Universal flange | Universal flange | Universal flange |
| IP rating | | IP 44 | IP 44 | IP 44 |
| Immersion depth | mm | 500 | 455 | 480 |

Additional accessories

Electric threaded immersion heaters and flanged immersion heaters

FCR



Benefits

- > Replaceable copper heating element
- > For matching to individual usage scenarios
- > High DHW convenience thanks to powerful heating elements
- > Variable temperature setting via rotary selector
- > Test techn. Bullets\${att.sf000694.value} \${att.sf000694.name} (Product: 000694)

Application • Flanged immersion heaters for horizontal installation in sealed DHW cylinders with flange connector to DIN 4805.

Convenience features • Variable temperature selection and temperature limiting possible.

Safety and quality • Observe the details supplied by the cylinder manufacturer and DIN 4753 or 4751.

FCR 21/60

| | | FCR 21/60 | FCR 21/120 | FCR 28/120 | FCR 28/120 E | FCR 28/180 |
|------------------------|----|---------------------|----------------------|---------------------|----------------|---------------------|
| Part number | | 071330 | 071331 | 071332 | 000694 | 071333 |
| Specification | | | | | | |
| Connected load ~ 230 V | kW | 2-4 | 4 | | | |
| Connected load ~ 400 V | kW | 2-6 | 8/12 | 6/12 | 12 | 9/18 |
| Power supply | | 1/N/PE, 3/N/PE | 1/N/PE, 2/N/PE, 3/PE | 3/PE | 3/PE | 3/PE |
| Rated voltage | V | 230/400 | 230/400 | 400 | 400 | 400 |
| Coil voltage | V | 230 | 230 | 230 | 400 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50 | 50 | 50 |
| Version | | Dual/single circuit | Single circuit | Dual/single circuit | Single circuit | Dual/single circuit |
| Integral contactor | | Χ | - | Χ | Х | Χ |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 |
| Immersion depth | mm | 400 | 400 | 450 | 325 | 450 |
| Flange diameter | mm | 210 | 210 | 280 | 280 | 280 |

| | | FCR 28/180 E | FCR 28/270 E | FCR 28/270 E Si | FCR 28/360 E |
|------------------------|----|----------------|----------------|-----------------|----------------|
| Part number | | 000695 | 000696 | 075141 | 001502 |
| Specification | | | | | |
| Connected load ~ 400 V | kW | 18 | 27 | 27 | 36 |
| Power supply | | 3/PE | 3/PE | 3/PE | 3/PE |
| Rated voltage | V | 400 | 400 | 400 | 400 |
| Coil voltage | V | 400 | 400 | | 400 |
| Frequency | Hz | 50 | 50 | 50/60 | 50/60 |
| Version | | Single circuit | Single circuit | Single circuit | Single circuit |
| Integral contactor | | Х | X | - | - |
| IP rating | | IP 24 | IP 24 | | IP 24 |
| Immersion depth | mm | 325 | 325 | 325 | 450 |
| Flange diameter | mm | 280 | 280 | 280 | 280 |

Additional accessories

Electric threaded immersion heaters and flanged immersion heaters

WPRB



Pipe assembly for threaded immersion heater for electrical reheating.

WPRB Rohrbausatz

| | | WPRB Rohrbausatz |
|---------------|----|------------------|
| Part number | | 074233 |
| Specification | | |
| Length | mm | 600 |

Accessories for heat pumps and cylinders Heat pump accessories

| DHW heating | |
|---------------------------|-----|
| Accessories | 385 |
| Heating system hydraulics | |
| Accessories | 387 |
| Additional accessories | |
| Accessories | 396 |
| | |

Heat pump accessories

DHW heating

UPZ



Application • DHW circulation pump with automatic ventilation mode, suitable for single-family houses and apartment buildings. • The highly efficient DHW circulation pump can be controlled via the electronic control thermostat and/or the time switch. • The pump shutdown temperature can be adjusted by means of a rotary selector – this allows the pump runtime and the electronic energy demand for DHW provision to be reduced to a minimum. • Insulation shell, time switch and non-return valve are included in the standard delivery.

UPZ

| | | UPZ |
|--|----|---------|
| Part number | | 233719 |
| | | |
| Specification | | |
| Connection | | G 1/2 |
| Power consumption | W | 2 - 27 |
| Rated voltage | V | 220-240 |
| Control via 0-10 V signal with IF module | | - |
| Control via PWM signal | | - |
| Installation length (centre distance) | mm | 65 |

UP B



Circulation pump for DHW circuit. Can be electrically controlled in three stages, inserts are included in the standard delivery.

Pumpe UP 25-60-180

| | | Pumpe UP 25-60-180 |
|---------------------------------------|----|--------------------|
| Part number | | 056899 |
| | | |
| Specification | | |
| Connection | | G 2 |
| Power consumption | W | 46/67/93 |
| Rated voltage | V | 230 |
| Installation length (centre distance) | mm | 180 |

Heat pump accessories

DHW heating

WT



Benefits

- > The plate heat exchanger consists of multiple hard-soldered stainless steel plates
- > For DHW heating or swimming pool water heating

Plate heat exchanger comprising several hard-soldered stainless steel plates for DHW heating or swimming pool heating. Including thermal insulation. Observe application limits.

WT 30

| | | WT 30 | WT 40 |
|-------------------------|-----|--------|--------|
| Part number | | 071091 | 229338 |
| Specification | | | |
| Output | kW | 40 | 50 |
| Primary pressure drop | hPa | 90 | 120 |
| Secondary pressure drop | hPa | 60 | 200 |
| Height | mm | 313 | 313 |
| Width | mm | 113 | 113 |
| Depth | mm | 173.5 | 219.7 |
| Weight | kg | 8.0 | 10.2 |



Benefits

- > Can be controlled via either a PWM signal or differential pressure (Product: 201620)
- > 0-10 V actuation possible with IF module (Product: 227422, 227423)

Heating circuit pump. Energy efficient thanks to the integral electronic output control for pumping the heat transfer medium and the variable differential control.

UP 25/1-8 PCV

| | | UP 25/1-8 PCV | UP 25/7.5 PCV | UP 30/1-8 PCV | UP 40/1-8 E | UP 50/1-12 E |
|--|------|---------------|---------------|--|--|--|
| Part number | | 235950 | 201620 | 235951 | 227422 | 227423 |
| Specification | | | | | | |
| Energy Efficiency Index EEI | | 0.23 | 0.20 | 0.23 | 0.23 | 0.23 |
| Connection | | G 1 1/2 | G 1 1/2 | G 2 | DN 40 | DN 50 |
| Delivery head | m | 8.00 | 8.40 | 8.00 | 8.00 | 12.00 |
| Max. flow rate | m³/h | 8.00 | 4.00 | 8.00 | 15.00 | 29.00 |
| Power consumption | W | 8-130 | 10-60 | 8-130 | 12-310 | 25-590 |
| Rated voltage | V | 230 | 230 | 230 | 230 | 230 |
| Control via 0-10 V signal with IF module | | - | | | X | Х |
| Control via differential pressure | | Х | X | X | Х | Х |
| Control via PWM signal | | Х | X | Х | <u>-</u> | - |
| Installation length (centre distance) | mm | 180 | 180 | 180 | 220 | 280 |
| Required accessories | | | | | | |
| Part number | | | | 230381 | 230381 | 230381 |
| Туре | | | | WPM-RBS | WPM-RBS | WPM-RBS |
| Description | | | | Relay set for connect- ing high efficiency pumps | Relay set for connect- ing high efficiency pumps | Relay set for connect- ing high efficiency pumps |

Heat pump accessories

Heating system hydraulics

IF-Modul Stratos Extern Off



IF plug-in module for the 0-10 V communication interface.

IF-Modul Stratos Extern Off

| | | IF-Modul Stratos Extern Off |
|---------------|----|-----------------------------|
| Part number | | 235952 |
| | | |
| Specification | | |
| Weight | kg | 0.06 |

WPKI-HKME



Application • Pump assembly for one heating circuit with mixer. • The standard delivery includes the integral high efficiency circulation pump, shut-off valves with thermometer and gravity brake including opening mechanism as well as the EPP complete insulation set with wall mounting bracket and white cover. • Flow on the right. • The pump assembly can be installed either on the buffer cylinder or on the wall.

WPKI-HKM E

| | | WPKI-HKM E |
|-----------------------------|------|------------------------|
| Part number | | 233603 |
| | | |
| Specification | | |
| Connection, above | | G 1 |
| Connection, below | | G 1 1/2 A |
| Circulation pump type | | Para 25-180/7-50/SC-12 |
| Height | mm | 420 |
| Width | mm | 250 |
| Depth | mm | 269 |
| Energy Efficiency Index EEI | | 0.20 |
| Delivery head | m | 7.00 |
| Max. flow rate | m³/h | 3.30 |

Heat pump accessories

Heating system hydraulics

WPKI-HKE



Application • Pump assembly for one heating circuit without mixer. • The standard delivery includes the integral high efficiency circulation pump, shut-off valves with thermometer and gravity brake including opening mechanism as well as the EPP complete insulation set with wall mounting bracket and white cover. • Flow on the right. • The pump assembly can be installed either on the buffer cylinder or on the wall.

WPKI-HK E

| | | WPKI-HK E |
|-----------------------------|------|------------------------|
| Part number | | 233602 |
| | | |
| Specification | | |
| Connection, above | | G 1 |
| Connection, below | | G 1 1/2 A |
| Circulation pump type | | Para 25-180/7-50/SC-12 |
| Height | mm | 420 |
| Width | mm | 250 |
| Depth | mm | 269 |
| Energy Efficiency Index EEI | | 0.20 |
| Delivery head | m | 7.00 |
| Max. flow rate | m³/h | 3.30 |

WPKI-HKV 2



Manifold for the installation of up to two heating circuit pump assemblies. Including EPP insulation and fittings.

WPKI-HKV 2

| | WPKI-HKV 2 |
|---------------|------------|
| Part number | 221142 |
| | |
| Specification | |
| Connection | G 1 1/2 |

WPKI-HKV 3



Manifold for installing a maximum of 3 heating circuit pump assemblies. Including EPP insulation and fittings.

WPKI-HKV 3

| | WPKI-HKV 3 |
|---------------|------------|
| Part number | 236708 |
| | |
| Specification | |
| Connection | G 1 1/2 |



3-way heating diverter valve with servomotor for installation in heating systems.

HUV 1

| | | HUV 1 | HUV 2 | HUV 65 | HUV 80 |
|------------------|------|--------------------------|----------------------|----------------------|----------------------|
| Part number | | 227420 | 223391 | 227425 | 227426 |
| Curation. | | | | | |
| Specification | | | | | |
| Connection | | G 1 | G 2 | DN 65 | DN 80 |
| kVS value | m³/h | 26 | 49 | 58 | 90 |
| IP rating | | IP 54 | IP 54 | IP 54 | IP 54 |
| Protection class | | II verstärkte Isolierung | II, double insulated | II, double insulated | II, double insulated |
| Runtime | | 90 s / 90° | 90 s / 90° | 7.5 s/mm (18mm) | 7.5 s/mm (18mm) |
| Weight | kg | 1.65 | 4.80 | 16.30 | 22.50 |

Heat pump accessories

Heating system hydraulics

WPHW



Low loss header for hydraulic separation of heat pump and heating circuit, including air separator and dirt trap. The welded casing with connectors is fully insulated and equipped with automatic float air vent valves, sensor pockets for return sensors and drain valve.

WPHW 25

| | | WPHW 25 |
|----------------------------|------|---------|
| Part number | | 221135 |
| | | |
| Specification | | |
| Connection, heating system | | G 1 1/2 |
| Connection, heat pump | | G 1 1/2 |
| Flow rate | m³/h | 2 |

HZEA



Benefits

The volume of softened water is subject to the level of hardness in the water (Product: 230013)

Application • Heating descaler for the initial filling and topping up of heating systems. • The fitting is installed in the cold water pipe, directly downstream of the system separator. The water passes through an acidic and high efficiency ion exchange resin. • Depending on the system volume, keep some spare cartridges to hand for the initial filling.

HZEA

| | | HZEA |
|----------------|------|--------|
| Part number | | 230013 |
| Specification | | |
| Max. flow rate | m³/h | 0.30 |

HZEN



Benefits

The volume of softened water is subject to the level of hardness in the water (Product: 230031)

Replacement cartridge for the HZEA heating water softening device.

HZEN

| Part number | |
|---------------------------|---------|
| | |
| Specification | |
| Max. permissible pressure | MPa |
| Weight | kg |
| Capacity | I x °dH |
| | |
| Required accessories | |
| Part number | |
| Туре | |
| Description | |

SD..G/GE



> Pressure hose for flow or return line

Vapour diffusion-proof pressure hoses with straight end pieces, for flow and return lines, including thermal insulation and threaded fittings.

SD 25-1 G

| | | SD 25-1 G | SD 25-2 GE | SD 25-2.5 GE | SD 32-0.6 G |
|-------------------------------------|-----|-----------|------------|--------------|-------------|
| Part number | | 232976 | 233828 | 232971 | 201710 |
| Specification | | | | | |
| Connection, heating and source side | | G 1 1/4 | G 1 1/4 | G 1 1/4 | |
| For pressure hose size DN | | 25 | 25 | 25 | 32 |
| Length | m | 1 | 2 | 2.5 | |
| Max. operating pressure | bar | 3.00 | 3.00 | 3.00 | |
| Thermal insulation thickness | mm | 19 | 30 | 30 | |
| External diameter incl. insulation | mm | 80 | 99 | 99 | |

| | | SD 32-1 G | SD 32-2 GE | SD 40-0.8 G |
|-------------------------------------|-----|-----------|------------|-------------|
| Part number | | 232977 | 233831 | 201711 |
| | | | | |
| Specification | | | | |
| Connection, heating and source side | | G 1 1/4 | G 1 1/4 | |
| For pressure hose size DN | | 32 | 32 | 40 |
| Length | m | 1 | 2 | |
| Max. operating pressure | bar | 3.00 | 3.00 | |
| Thermal insulation thickness | mm | 19 | 30 | |
| External diameter incl. insulation | mm | 86 | 106 | |

SD..E



Vapour diffusion-proof pressure hoses with one right angle and one straight end piece, for flow and return lines, including thermal insulation and threaded fittings.

SD 25-1 E

| | | SD 25-1 E | SD 32-1 E | SD 50-1 E | Druckschl. 25 x 1000 | Druckschl. 32x 1000 |
|-------------------------------------|-----|-----------|-----------|-----------|----------------------|---------------------|
| Part number | | 232965 | 232968 | 232972 | 074415 | 074414 |
| | | | | | | |
| Specification | | | | | | |
| Connection, heating and source side | | G 1 1/4 | G 1 1/4 | G 2 | G 1 1/4 | G 1 1/4 |
| For pressure hose size DN | | 25 | 32 | 50 | 25 | 32 |
| Length | m | 1 | 1 | 1 | 1 | 1 |
| Max. operating pressure | bar | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| Thermal insulation thickness | mm | 30 | 30 | 50 | 19 | 19 |
| External diameter incl. insulation | mm | 99 | 106 | 134 | 80 | 86 |

SD..KE



Vapour diffusion-proof pressure hoses (can be trimmed) for flow and return lines, incl. thermal insulation and threaded fittings.

SD 25-1 KE

| | | SD 25-1 KE | SD 32-1 KE |
|-------------------------------------|-----|------------|------------|
| Part number | | 232974 | 232975 |
| | | | |
| Specification | | | |
| Connection, heating and source side | | G 1 1/4 | G 1 1/4 |
| For pressure hose size DN | | 25 | 32 |
| Length | m | 1 | 1 |
| Max. operating pressure | bar | 2.50 | 2.50 |
| Thermal insulation thickness | mm | 30 | 30 |
| External diameter incl. insulation | mm | 99 | 106 |

SV DS



Hose fittings for trimming the pressure hoses with threaded fittings.

Schlauchverschr.DN25

| | Schlauchverschr.DN25 | Schlauchverschr.DN32 |
|-------------|----------------------|----------------------|
| Part number | 003713 | 070692 |

Heat pump accessories Heating system hydraulics

FS-HP



Liquid and gaseous media in the pipework are monitored by the FS-HP flow switch

FS-HP flow switch for reliable monitoring of liquid and gaseous media in pipework. A connection adaptor to G 1/4" and a five metre PUR cable with a 1/2" plug-in connection are included in the standard delivery.

FS-HP Strömungswächter

| | FS-HP Strömungswächter |
|-------------|------------------------|
| Part number | 202779 |

Heat pump accessories Additional accessories

STB-FB



 $\label{lem:bi-metal} \mbox{Bi-metal contact thermostat incl. casing. Limits the maximum permissible flow temperature.}$

STB-FB

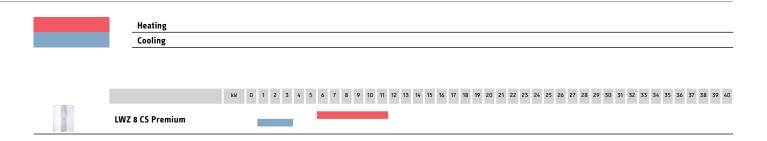
| Part number | | |
|---------------------------|----|--|
| | | |
| Specification | | |
| Temperature setting range | °C | |
| Switching hysteresis | K | |
| IP rating | | |

Ventilation

Integral ventilation



Ventilation with integral heat pump Application areas





Room heating, DHW heating and supply/extract air with heat recovery LWZ CS Premium

401

Ventilation with integral heat pump

Room heating, DHW heating and supply/extract air with heat recovery

LWZ CS Premium



LWZ 8 CS Premium

Benefits

- > Compact appliance for ventilation, heating, cooling and DHW heating
- > Intuitive operation via matrix display with Touch-Wheel
- > Energy saving heat distribution by integral high efficiency pump
- > Integral DHW cylinder for maximum DHW convenience
- > Simple to control via the ergonomic programming unit

Application • The output-controlled integral system with reversible air source heat pump performs the following tasks in new builds and detached houses: central ventilation, central DHW heating, heating and cooling.

Convenience features • The integral electronic weather-compensated control unit ensures output control for all application areas. The intelligent controller allows program preselection for fans, heating, DHW and absence or holidays.
• A range of additional functions is also included: humidity protection with integral humidity sensor in the extract air, air flow rate reduction when humidity is too low, passive cooling and dry heating program. • The programming unit is integrated directly in the appliance, with the option of adding a remote control with humidity sensor. • The Internet Service Gateway (ISG) with optional KNX and photovoltaic optimisation can be added if required. • Extensive safety equipment in the refrigerant circuit of the air source heat pump. • Cooling with option of direct area cooling.
• Electric emergency/auxiliary heater for DHW heating and room heating. • The integral DHW cylinder has a special enamel coating and is equipped with a protective magnesium anode with electronic monitoring. • Outdoor air is preheated by a refrigerant circuit supercooler. • Coarse dust filters are integrated for the supply and extract air.

Efficiency • High efficiency due to demand-dependent control of the inverter compressor. • Solar thermal energy can be used thanks to the additional solar heat exchanger in the heating circuit. • The combination of the plastic cross-countercurrent heat exchanger and an economical constant flow rate fan is particularly efficient.

Installation • All air connections are located at the top of the appliance. • Robust sheet steel casing in a contemporary design.









| | | LWZ 8 CS Premium |
|--|-------|--|
| Part number | | 201290 |
| | | |
| Specification | | |
| Heat recovery level up to | % | 90 |
| Filter class | | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) |
| Heating output at A-7/W35 (EN 14511) | kW | 8.34 |
| Heating output at A2/W35 (EN 14511) | kW | 5.16 |
| Cooling capacity at A35/W7 | kW | 2.69 |
| Cooling capacity factor at A35/ W7 | | 1.92 |
| COP at A2/W35 (EN 14511) | | 3.74 |
| COP at A-7/W35 (EN 14511) | | 2.61 |
| Sound power level (EN 12102) | dB(A) | 50 |
| Height | mm | 1885 |
| Width | mm | 1430 |
| Depth | mm | 812 |
| Cylinder capacity V | | 235 |
| Weight | kg | 442 |
| Rated voltage, emergency/aux- iliary heater | V | 400 |
| Rated voltage, control unit | V | 230 |
| Rated voltage, compressor | V | 230 |
| Refrigerant | | R410 A |
| Air flow rate | m³/h | 80-300 |
| Energy efficiency class, heat pump W35 | | A++ |
| Energy efficiency class, heat pump W55 | | A++ |

Continue on next page >

Ventilation with integral heat pump Room heating, DHW heating and supply/extract air with heat recovery

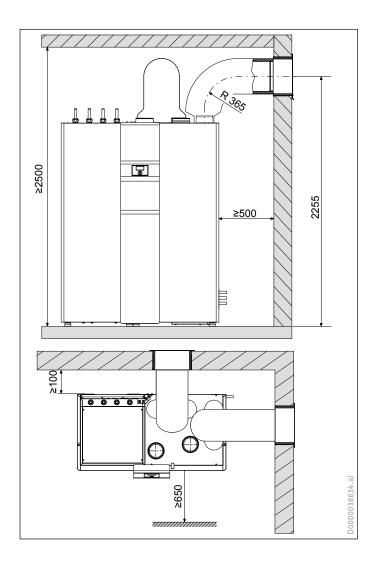
| | LW7 o CC Drawium |
|--|--|
| | LWZ 8 CS Premium |
| Energy efficiency class, com- posite system (heat pump + controller) W35 | A++ |
| Energy efficiency class, com- posite system (heat pump + | A++ |
| controller) W55 | |
| Energy efficiency class, DHW heating with load profile XL | A |
| Required accessories | |
| Part number | 201720 |
| Туре | LSWP 315-1.5 SG |
| Description | |
| Part number | 227664 |
| Туре | FES Komfort |
| Description | Remote control |
| Part number | 233836 |
| Туре | AWG 315 SR |
| Description | |
| Recommended accessories | |
| Part number | 201618 |
| Туре | LSWP 315-4 SG |
| Description | |
| Part number | 202933 |
| Туре | LWF SK 315 - 0,6 |
| Description | Splitter silencer |
| Part number | 227665 |
| Туре | LSK Inverter |
| Description | Summer cassette |
| Part number | 229336 |
| Туре | ISG web |
| Description | Internet Service Gateway |
| Part number | 231039 |
| Туре | AWG 315 L |
| Description | 2227 |
| Part number | 232341 LLB AWG 315 L |
| Type Description | Air deflector for light well grille |
| Part number | All deflector for light wen grine 232675 |
| Туре | LULH 315 o |
| Description | Air diverter hood, outdoor/exhaust air |
| Part number | 232955 |
| Туре | AWG 315 GL |
| Description | AWU 313 GE |
| Part number | 233301 |
| Туре | ZLWZ Zirku set |
| Description | Connection set for DHW circulation pump |
| Part number | 233867 |
| Туре | LWTF Inverter Enthalpie LWZ 5+8 |
| Description | Enthalpy heat exchanger |
| Maintenance | |
| Part number | 231330 |
| Type | FMS G4-10 ABL Inverter |
| Description | Filter mat set |
| Part number | 231331 |
| Type | FMK M5-2 ZUL Inverter |
| Description | Filter cassette set |
| Bescription | Titlet Cassette Set |

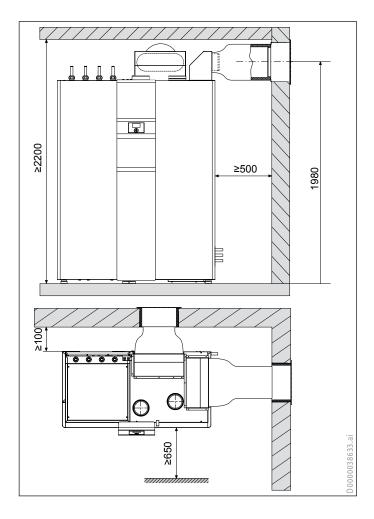
Ventilation with integral heat pump Room heating, DHW heating and supply/extract air with heat recovery

| | LWZ 8 CS Premium |
|-------------|-----------------------|
| Part number | 231332 |
| Type | FMK F7-2 ZUL Inverter |
| Description | Filter cassette set |

Consisting of function module and cylinder module.

Installation conditions





| Accessories | | |
|-------------|-----|--|
| Accessories | 407 | |
| | 407 | |
| | | |
| | | |
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| | | |

Accessories

FES comfort



Benefits

- > Touch-Wheel operation
- > Illuminated graphic display
- > Room temperature and humidity measurement
- > Data link via the system bus
- > Choice of operating mode

Application • The FES Komfort programming unit is combined with integral ventilation units and enables convenient operation and display of the system parameters for the living space. The integral room temperature sensor enables automatic heating curve adjustment. The unit is installed on a surface box, with wired communication via the Stiebel Eltron bus.

FES Komfort

| | | FES Komfort |
|--------------------------|----|-------------|
| Part number | | 227664 |
| Specification | | |
| Width | mm | 145 |
| Height | mm | 96 |
| Width Height Depth | mm | 31 |

ISG web



Benefits

- > Browser-based operation of the heat pump in a home network
- > Can be integrated into home automation systems through Modbus TCP/IP software interface fitted as standard
- > Forecast-based on-site PV self-consumption facilitated by optional EMI software extension
-) Optional automation with KNX IP software extension

Application • The Internet Service Gateway (ISG) connects the heat pump to the home network and enables the appliance to be operated using a computer or tablet browser. • Once enabled, appliance data is transferred to the Stiebel Eltron Internet Service Portal. • The ISG plus is a required accessory for use of the SG Ready functions of the heat pump manager (WPM). The ISG can be integrated into an existing building management system via the Modbus TCP/IP data interface.

ISG web

| | | ISG web |
|-----------------------------|----|---------------|
| Part number | | 229336 |
| | | |
| Specification | | |
| Version | | Wall mounting |
| 10/100 Ethernet | | RJ45 |
| CAN | | RJ45 |
| RS232 | | RJ 12 |
| Width | mm | 158 |
| Height | mm | 95 |
| Depth | mm | 37 |
| Min./max. application range | °C | 0 / 60 |

Observe the compatibility list.

Accessories

AWG 315



AWG 315 L

| | | AWG 315 L | AWG 315 GL | AWG 315 SR |
|----------------------|------|-------------------------------------|----------------------------------|---|
| Part number | | 231039 | 232955 | 233836 |
| Cunsification | | | | |
| Specification | | | | |
| Height | mm | 477 | 490 | 490 |
| Width | mm | 479 | 483 | 483 |
| Depth | mm | 625 | 627 | 627 |
| Nominal diameter | mm | 315 | 315 | 315 |
| Wall thickness | mm | 280 - 500 | 280 - 500 | 280 - 500 |
| Min. outlet aperture | mm | 450x450 | 450x450 | 450x450 |
| Max. air flow rate | m³/h | 1500 | 1300 | 1300 |
| Colour | | Aluminium, anodised | RAL 9006 | silver-metallic |
| Material | | Sheet steel | Sheet steel | Sheet steel |
| Version | | For light well version | With grey painted weather grille | With weather grille painted with me- tallic silver |
| | | | | |
| Required accessories | | | | |
| Part number | | 232341 | | |
| Туре | | LLB AWG 315 L | | |
| Description | | Air deflector for light well grille | | |

LLB AWG



Benefits

› Quick and easy to install

The aluminium air deflector is installed in a light well and directs exhaust air expelled from a building away from the external wall. This reduces the formation of moisture from condensation. The width of the deflector can be adjusted to the light well.

LLB AWG 315 L

| | LLB AWG 315 L | LLB AWG 560 L |
|-------------|---------------|---------------|
| Part number | 232341 | 232342 |

Accessories

| | | LLB AWG 315 L | LLB AWG 560 L |
|---------------|----|---------------|---------------|
| Specification | | | |
| Height | mm | 128 | 128 |
| Length | mm | 900 | 1,500 |
| Colour | | Aluminium | Aluminium |

LSWP 315



Renefits

- > Good sound insulation thanks to a 50 mm layer of acoustic insulating material
- > Prevents condensation forming on the outer cover

LSWP 315-1.5 SG

| | | LSWP 315-1.5 SG | LSWP 315-4 S | LSWP 315-4 SG |
|------------------------------|----|-------------------|---------------------------------|-------------------|
| Part number | | 201720 | 234646 | 201618 |
| Specification | | | | |
| Nominal diameter | mm | 315 | 315 | 315 |
| Length | mm | 1500 | 4000 | 4000 |
| Thermal insulation thickness | mm | 50 | 50 | 50 |
| Colour of air hose | | Grey outer sheath | Aluminium-coloured outer sheath | Grey outer sheath |

LWF SK



Benefits

> Excellent sound attenuation at low frequencies

The splitter silencer consists of an external pipe, a perforated internal pipe, a baffle and two connection ends with double lip gasket. It is used to reduce noise levels in the exhaust air at the external grille for integral systems and air source heat pumps. The space is filled with sound-absorbing insulation material. A glass fleece between the internal pipe and insulation prevents any contact between the insulating material and the air stream.

LWF SK 315 - 0,6

| | | LWF SK 315 - 0,6 |
|-------------------|----|------------------|
| Part number | | 202933 |
| | | |
| Specification | | |
| Nominal diameter | mm | 315 |
| External diameter | mm | 515 |

Accessories

LULH



Benefits

> Compact, space saving design

The air diverter hood for integral systems is suitable for routing the outdoor air, or the outdoor and exhaust air. It is used with low ceilings from 2200 mm and is suitable for air hose LSWP 315. The white sheet steel casing has a stove enamel finish and is insulated on the inside.

LULH 315 o

| | | LULH 315 o |
|----------------|----|------------|
| Part number | | 232675 |
| Specification | | |
| Specification | | |
| Height | mm | 260 |
| Width Depth | mm | 488 |
| Depth | mm | 218 |

LSK Inverter



The insert replaces the cross-countercurrent heat exchanger in summer, in order to prevent unwanted heat transfer.

LSK Inverter

| | LSK Inverter |
|---------------|-------------------|
| Part number | 227665 |
| | |
| Specification | |
| Application | Ventilation units |

Accessories

LWTF Inverter



LWTF Inverter Enthalpie LWZ 5+8

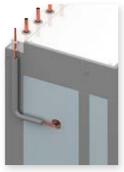
Renefit

- > Less dry air in winter thanks to moisture recovery
- > Thanks to the special membranes, odours and harmful substances are not allowed through

Application • Enthalpy heat exchanger for the integral units, to replace the cross-countercurrent heat exchanger during the winter months.0• Highly efficient, moisture-transferring, countercurrent heat exchanger with selective plastic film membrane. • This membrane in the heat exchanger can recover the moisture from the extract air and transfer it to the supply air, thereby allowing the low relative humidity found in rooms during the winter months to be raised. • No transfer of gases or impurities, long service life, excellent leak tightness, low pressure drop, antimicrobial, resistant to frost and heat.

| | | LWTF Inverter Enthalpie LWZ 5+8 |
|---------------|----|---------------------------------|
| Part number | | 233867 |
| | | |
| Specification | | |
| Height | mm | 366 |
| Width | mm | 366 |
| Depth | mm | 345 |

ZLWZ Zirku Set



ZLWZ Zirku set

The connection set for a DHW circulation pump to integral systems consists of a pipe bend assembly with gasket and insulating hose. The pipe assembly is installed within the side panel, and the connection can be found at the top of the unit, to the back left.

| | | ZLWZ Zirku set |
|----------------|----|----------------|
| Part number | | 233301 |
| | | |
| Specification | | |
| Height | mm | 535 |
| Width Depth | mm | 260 |
| Depth | mm | 52 |

Accessories

FMS G2 LWA 100



Set of 5 filter mats made of synthetic randomly laid nonwoven fabric, without the addition of chemical binders. Outstanding dust-holding capacity with little pressure loss, thanks to progressively compressed construction and an optimised nonwoven structure.

FMS G2 LWA 100

| | FMS G2 LWA 100 |
|--------------------------|------------------------|
| Part number | 221398 |
| Specification | |
| Quantity | 5 |
| Quantity Filter class | ISO Coarse > 30 % (G2) |
| Application | Ventilation units |

FMS G4 LWZ Inverter



Set of 10 filter mats made of randomly laid synthetic nonwoven fabric, without the addition of chemical binders. Outstanding dust-holding capacity with little pressure loss, thanks to progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 ABL Inverter

| | FMS G4-10 ABL Inverter |
|--------------------------|------------------------|
| Part number | 231330 |
| | |
| Specification | |
| Quantity | 10 |
| Quantity Filter class | ISO Coarse > 60 % (G4) |
| Application | Ventilation units |

Accessories

FMK M5-2 ZUL Inverter



The set contains synthetic nonwoven filter cassettes for the supply air. Low pressure drop thanks to large Z-fold compressed nonwoven filters in a rigid frame.

FMK M5-2 ZUL Inverter

| | FMK M5-2 ZUL Inverter |
|---------------|-----------------------|
| Part number | 231331 |
| Specification | |
| Quantity | 2 |
| Filter class | ePM10 ≥ 50 % (M5) |
| Application | Ventilation units |

FMK F7-2 ZUL



Set of 2 synthetic nonwoven filter cassettes for supply air. Low pressure drop thanks to large Z-fold compressed nonwoven filters in a rigid frame.

FMK F7-2 ZUL Inverter

| | FMK F7-2 ZUL Inverter |
|--------------------------|---------------------------------------|
| Part number | 231332 |
| | |
| Specification | |
| Quantity | 2 |
| Quantity Filter class | ePM1 ≥ 50 % (F7) Ventilation units |
| Application | Ventilation units |

Accessories

ZLWZ Trans



Benefit

> Highly robust transport aids that can be used multiple times for all appliances in the range

Transport aids for the function modules of the Plus, Trend, Eco and Flex ranges of compact ventilation units. They comprise two stable angled panels with corresponding fixing screws.

ZLWZ Trans

| | ZLWZ Trans |
|-------------|------------|
| Part number | 233485 |

RC 1



Benefits

> Remote control for convenient control

Remote control for easier operation of the ventilation units with DHW heat pump.

RC1 Lüftg. Fernverst.

| | | RC1 Lüftg. Fernverst. |
|-----------------|----|-----------------------|
| Part number | | 170328 |
| Specification | | |
| Width | mm | 80 |
| Height Depth | mm | 80 |
| Depth | mm | 30 |

Accessories

ALD



The supply air vents for decentralised air supply are made from plastic with weather grille, wind pressure protection and filter. They are designed for wall installation and can be manually closed.

ALD 160

| | | ALD 160 |
|----------------------|----|-------------------|
| Part number | | 189813 |
| | | |
| Specification | | |
| For nominal diameter | mm | 160 |
| | | |
| Required accessories | | |
| Part number | | 189816 |
| Type | | Montagerohr ALD |
| Description | | Installation pipe |

Required ALD accessories: Installation pipe DN 160 (part no. 189816) (Product: 189813)

ZALD



The plastic (PPS) pipe is used for installing the external wall vent. It can be trimmed to the thickness of the wall and can also be used with walls of greater thickness.

Montagerohr ALD

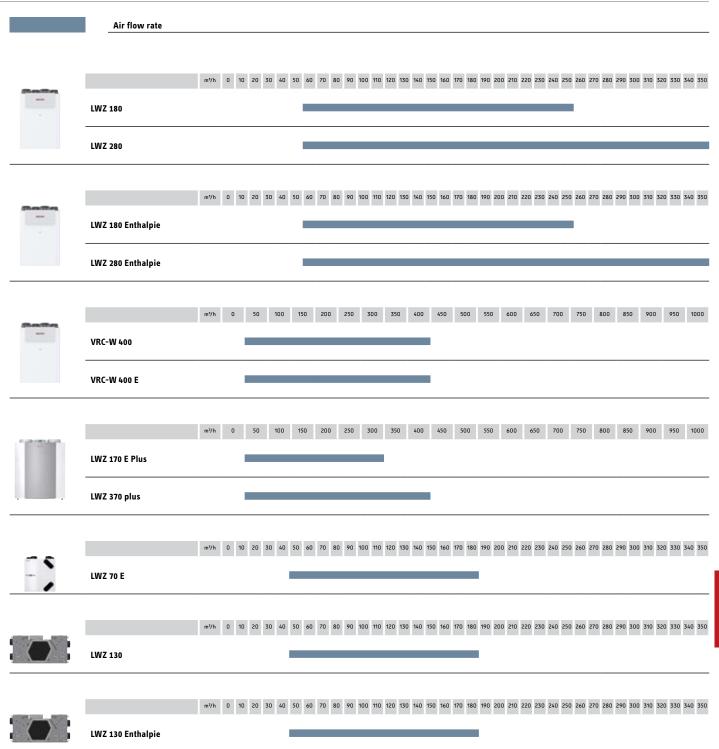
| | | Montagerohr ALD |
|---------------|----|-----------------|
| Part number | | 189816 |
| | | |
| Specification | | |
| Diameter | mm | 160 |
| Material | | Plastic |

Ventilation

Ventilation

| 418 |
|-----|
| 436 |
| 446 |
| 470 |
| 480 |
| 490 |
| 524 |
| |

Application areas



Ventilation

Central ventilation

| Supply and extract air with heat recovery, wall mounting | |
|---|-----|
| LWZ 180/280 | 419 |
| LWZ 180/280 E | 422 |
| VRC-W 400 | 425 |
| LWZ 170/370 P | 427 |
| LWZ 70 E | 428 |
| Supply and extract air with heat recovery, ceiling mounting | |
| LWZ 130 | 431 |
| LWZ 130 E | 433 |
| | |

Supply and extract air with heat recovery, wall mounting

LWZ 180/280



LWZ 180

Benefits

- > For apartments, detached houses and commercial properties with an area of up to 250 m²
- > Central supply and extract air system for optimum air quality
- > Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- > Simple to control via the ergonomic programming unit
- > Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- During the hot summer nights, temperature is reduced by means of the integral bypass module
- > Pollutants are continuously removed from the living space
- > Easy electrical installation as the connection panel is readily accessible even when the appliance is closed

Application • The central ventilation unit with heat recovery is ideal for ventilating detached houses, large apartments and small commercial properties.

Convenience features • The appliance features a contemporary design with ergonomically arranged programming unit and separate filter cover panel. • The integral controller is operated via the multifunction display, which is also used to set the seven-day program. The display can be used as a remote control. • The integral bypass damper in the supply air line prevents heat recovery from the extract air on hot summer nights. • The heating coil with electric preheating provides additional comfort by routing the supply air, which is a higher temperature, into the room. • The humidity sensor can be used for humidity-dependent control of the air flow rate.

Efficiency • The backwards-curved constant flow rate fan with air flow rate control ensures balanced air flow rates, promoting efficient operation. • The cross-countercurrent heat exchanger routes the supply and extract air streams so that they cross each other inside the unit. This extends the contact time for heat exchange, which improves the overall efficiency of the system. • The filter can be replaced easily thanks to the combi filter cassette. A fine dust filter is available as an optional accessory.

Installation • The unit can be installed in residential units, utility rooms and basement rooms. • The air connections are located at the top of the unit. • The electrical connection panel is easy to access without having to open the unit. • The ventilation unit has a duplex sheet steel casing with visible surfaces in alpine white with powder coated finish.

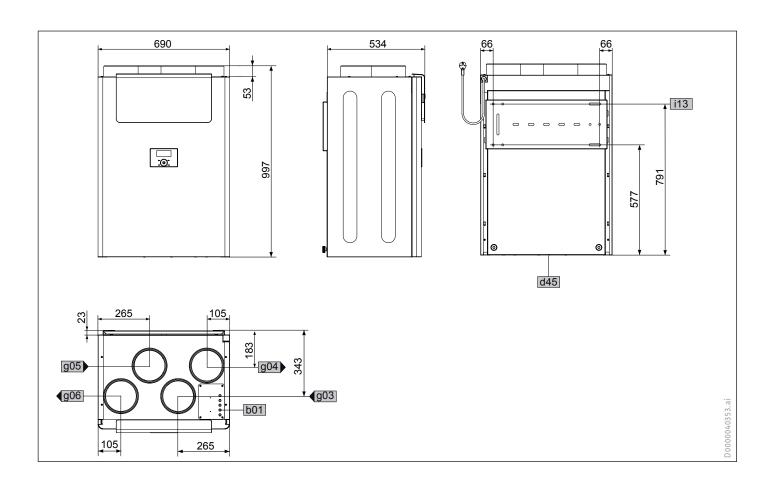


232361

| | | LWZ 180 | LWZ 280 |
|--|---------------|--|--|
| Part number | | 232361 | 232362 |
| | | | |
| Specification | | | |
| Filter class | | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) |
| Power consumption, fan | W | 65 | 132 |
| Sound power level (EN 12102) | dB(A) | 43 | 48 |
| Depth | mm | 534 | 534 |
| Air connection diameter | mm | 160 | 160 |
| Weight | kg | 78 | 78 |
| Rated voltage | V | 230 | 230 |
| Air flow rate | m³/h | 60-250 | 60-350 |
| Specific energy consumption in moderate climates, time control | kWh/ (m²a) | -39.95 | -38.51 |
| Specific energy consumption in moderate climates, central demand-dependent control | kWh/ (m²a) | -41.58 | -40.63 |
| Energy efficiency class, moderate climates, time control | | A | A |
| Energy efficiency class, mod- erate climates, central de- mand-dependent control | | A | A |
| Width | mm | 690 | 690 |
| Height | mm | 997 | 997 |
| Heat recovery level up to | % | 94 | 94 |
| Energy efficiency class | | A | A |

Supply and extract air with heat recovery, wall mounting

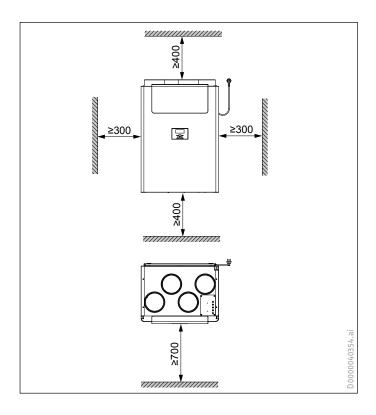
| | LWZ 180 | LWZ 280 |
|-------------------------|--|--|
| Recommended accessories | | |
| Part number | 236039 | 236039 |
| Type | FEB | FEB |
| Description | Comfort programming unit for wall mounting | Comfort programming unit for wall mounting |
| Maintenance | | |
| Part number | 234147 | 234147 |
| Type | FMS G4-10 180 | FMS G4-10 180 |
| Description | Filter mat set | Filter mat set |
| Part number | 234148 | 234148 |
| Type | FMK M5-2 180 | FMK M5-2 180 |
| Description | Filter cassette set | Filter cassette set |
| Part number | 234208 | 234208 |
| Type | FMK F7-2 180 | FMK F7-2 180 |
| Description | Filter cassette set F7, 2 pce | Filter cassette set F7, 2 pce |



Supply and extract air with heat recovery, wall mounting

| | | LWZ 180 | LWZ 280 |
|-------------------------------|----|-----------|-----------|
| b01 Entry electrical cables | | | |
| d45 Condensate drain Diameter | mm | 22 | 22 |
| g03 Outdoor air Diameter | mm | 160 / 180 | 160 / 180 |
| g04 Exhaust air Diameter | mm | 160 / 180 | 160 / 180 |
| g05 Extract air Diameter | mm | 160 / 180 | 160 / 180 |
| g06 Supply air Diameter | mm | 160 / 180 | 160 / 180 |
| i13 Wall mounting bracket | | | |

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

LWZ 180/280 E



LWZ 180 Enthalpie

Benefits

- An enthalpy heat exchanger is built in for recovering moisture in the winter
- > For apartments, detached houses and commercial properties with an area of up to 250 m²
- > Central supply and extract air system for optimum air quality
- > Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- > Simple to control via the ergonomic programming unit
- > Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
- > During the hot summer nights, temperature is reduced by means of the integral bypass module
- > Pollutants are continuously removed from the living space
- > Easy electrical installation as the connection panel is readily accessible even when the appliance is closed

Application • The central ventilation unit with heat recovery is ideal for ventilating detached houses, large apartments and small commercial properties.

Convenience features • The unit is in a contemporary design with ergonomically arranged programming unit and separate filter cover panel. • The integral controller is operated via the multifunction display, which is also used to set the seven-day program. The display can be used as a remote control. • The integral bypass damper in the supply air line prevents heat recovery from the extract air on hot summer nights. • The heating coil with electric preheating provides additional comfort by routing the supply air, which is a higher temperature, into the room. • The unit is fitted with an enthalpy heat exchanger for moisture recovery. The humidity sensor can be used for humidity-dependent control of the air flow rate.

Efficiency • The backwards-curved constant flow rate fan with air flow rate control ensures balanced air flow rates, promoting efficient operation. • The cross-countercurrent heat exchanger routes the supply and extract air streams so that they cross each other inside the unit. This extends the contact time for heat exchange, which improves the overall efficiency of the system. • The filter can be replaced easily thanks to the combi filter cassette. A fine dust filter is available as an optional accessory.

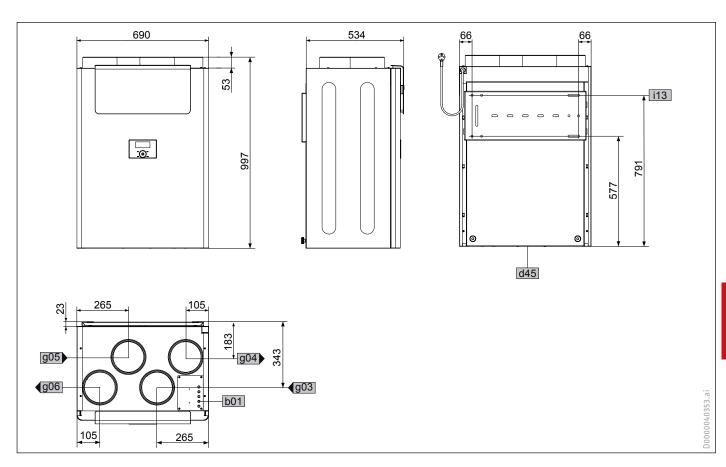
Installation • The unit can be installed in residential units, utility rooms and basement rooms. • The air connections are located at the top of the unit. • The electrical connection panel is easy to access without having to open the unit. • The ventilation unit has a duplex sheet steel casing with visible surfaces in alpine white with powder coated finish.

| | | LWZ 180 Enthalpie | LWZ 280 Enthalpie |
|--|---------------|--|--|
| Part number | | 236646 | 236647 |
| Specification | | | |
| Filter class | | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) |
| Power consumption, fan | W | 65 | 135 |
| Sound power level (EN 12102) | dB(A) | 43 | 48 |
| Depth | mm | 534 | 534 |
| Air connection diameter | mm | 160 | 160 |
| Weight | kg | 80 | 80 |
| Rated voltage | V | 230 | 230 |
| Air flow rate | m³/h | 60-250 | 60-350 |
| Specific energy consumption in moderate climates, time control | kWh/ (m²a) | -37.32 | -35.04 |
| Specific energy consumption in moderate climates, central demand-dependent control | kWh/ (m²a) | -39.21 | -37.73 |
| Energy efficiency class, moderate climates, time control | | A | A |
| Energy efficiency class, mod- erate climates, central de- mand-dependent control | | A | A |
| Width | mm | 690 | 690 |
| Height | mm | 997 | 997 |
| Heat recovery level up to | % | 89 | 89 |
| Energy efficiency class | | A | A |
| Recommended accessories | | | |
| Part number | | 236039 | 236039 |
| Type | | FEB | FEB |
| Description | | Comfort programming unit for wall mounting | Comfort programming unit for wall mounting |

Continue on next page >

Supply and extract air with heat recovery, wall mounting

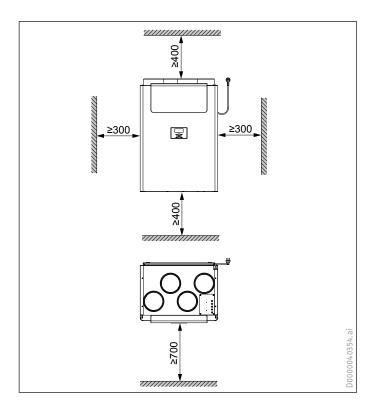
| | LWZ 180 Enthalpie | LWZ 280 Enthalpie |
|-------------|-------------------------------|-------------------------------|
| Maintenance | | |
| Part number | 234147 | 234147 |
| Туре | FMS G4-10 180 | FMS G4-10 180 |
| Description | Filter mat set | Filter mat set |
| Part number | 234148 | 234148 |
| Туре | FMK M5-2 180 | FMK M5-2 180 |
| Description | Filter cassette set | Filter cassette set |
| Part number | 234208 | 234208 |
| Туре | FMK F7-2 180 | FMK F7-2 180 |
| Description | Filter cassette set F7, 2 pce | Filter cassette set F7, 2 pce |



Supply and extract air with heat recovery, wall mounting

| | | LWZ 180 Enthalpie | LWZ 280 Enthalpie |
|-------------------------------|----|-------------------|-------------------|
| b01 Entry electrical cables | | | |
| d45 Condensate drain Diameter | mm | 22 | 22 |
| g03 Outdoor air | | | |
| g03 Outdoor air Diameter | mm | 160 / 180 | 160 / 180 |
| g04 Exhaust air Diameter | mm | 160 / 180 | 160 / 180 |
| g05 Extract air Diameter | mm | 160 / 180 | 160 / 180 |
| g06 Supply air Diameter | mm | 160 / 180 | 160 / 180 |
| i13 Wall mounting bracket | | | |

Minimum clearance diagram



Supply and extract air with heat recovery, wall mounting

VRC-W 400



VRC-W 400

Benefits

- > For apartments, detached houses and commercial properties with an area of up to 250 m²
- > Central supply and extract air system for optimum air quality
- > Efficient operation through by the constant flow rate fan, which ensures a balanced air flow rate
- > Simple to control via the ergonomic programming unit
- > Balanced flow rate in winter by means of integral preheating coil
- The programming unit can also be used as a remote control for ventilation regulated by the humidity sensor
-) During the hot summer nights, temperature is reduced by means of the integral bypass module
- > Pollutants are continuously removed from the living space
- > Easy electrical installation as the connection panel is readily accessible even when the appliance is closed
- An enthalpy heat exchanger is built in for recovering moisture in the winter (Product: 203637)

Application • The central ventilation unit with heat recovery is used for ventilating detached houses, large apartments and small commercial properties.

Convenience features • Contemporary design with ergonomically arranged programming unit. • The integral controller is equipped with a multifunction display and seven-day program and can also be used as a remote control. • The unit offers a wide range of benefits: Highly efficient backwards-curved fans with constant flow rate control. Highly efficient cross-countercurrent heat exchanger. • Electric preheating via high performance heating coil. Bypass damper in supply air line; integral humidity sensor in extract air line. The humidity sensor can be used for humidity-dependent control of the air flow rate. • Straightforward filter replacement using combi filter cassettes. Fine dust filters are available as an accessory. • The duplex sheet steel casing has a visible surface in alpine white with powder coated finish.

Efficiency • The backwards-curved constant flow rate fans with air flow rate control ensure balanced air flow rates, thereby promoting efficient operation.

Installation • Installation in dwellings, utility rooms, basement rooms, etc. • The air connections are located at the top of the unit; the electrical connection panel can be easily accessed without having to open the unit.

| | | VRC-W 400 | VRC-W 400 E |
|--|---------------|--|--|
| Part number | | 203636 | 203637 |
| Specification | | | |
| Filter class | | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) |
| Power consumption, fan | W | 132 | 135 |
| Sound power level (EN 12102) | dB(A) | 50 | 49.6 |
| Depth | mm | 534 | 534 |
| Air connection diameter | mm | 160 | 160 |
| Weight | kg | 78 | 80 |
| Rated voltage | V | 230 | 230 |
| Air flow rate | m³/h | 60-400 | 60-400 |
| Specific energy consumption in moderate climates, time control | kWh/ (m²a) | -37.96 | -34.58 |
| Specific energy consumption in moderate climates, central demand-dependent control | kWh/ (m²a) | -40.18 | -37.28 |
| Energy efficiency class, moderate climates, time control | | A+ | A |
| Energy efficiency class, mod- erate climates, central de- mand-dependent control | | A | A |
| Width | mm | 690 | 690 |
| Height | mm | 997 | 997 |
| Heat recovery level up to | % | 94 | 89 |
| Energy efficiency class | | A | Α |
| Maintenance | | | |
| Part number | | 234147 | 234147 |
| Туре | | FMS G4-10 180 | FMS G4-10 180 |
| Description | | Filter mat set | Filter mat set |

Supply and extract air with heat recovery, wall mounting

| | VRC-W 400 | VRC-W 400 E |
|-------------|-------------------------------|-------------------------------|
| Part number | 234148 | 234148 |
| Type | FMK M5-2 180 | FMK M5-2 180 |
| Description | Filter cassette set | Filter cassette set |
| Part number | 234208 | 234208 |
| Type | FMK F7-2 180 | FMK F7-2 180 |
| Description | Filter cassette set F7, 2 pce | Filter cassette set F7, 2 pce |

The following are supplied with the device:

- Wall suspension
- 2 star handles as spacers for the back of the device
- Condensate drain hose, hose clamp, hanging bend
- 4 double nipples nominal width 160 (Product: 203636, 203637)

STIEBEL ELTRON central ventilation unit VRC-W 400 higher air volume (400 m3/h) with heat recovery (sensible heat exchanger), bypass module, integrated preheating. (Product: 203636)
STIEBEL ELTRON central ventilation unit VRC-W 400 E higher air volume (400 m3/h) with heat recovery (enthaphy heat exchanger), bypass module, integrated preheating. (Product: 203637)

Supply and extract air with heat recovery, wall mounting

LWZ 170/370 P



LWZ 170 E Plus

Benefits

- > Central supply and extract air system for optimum air quality
- > Pollutants are continuously removed from the living space
- > Easy adjustment with constant flow rate fan
- > Easy to program using the integral programming unit
- > High heat recovery through cross-countercurrent heat exchanger
-) Integral bypass module and preheating coil
- High heat recovery rate of up to 90 %

Application • The central ventilation system with heat recovery is specifically designed for use in large detached houses and smaller commercial properties.• The slow-turning, highly efficient fans guarantee a high air flow rate with significantly reduced noise levels. The air flow rate can be conveniently adjusted in three stages via a remote control (required accessories). Up to 90 % of thermal energy is recovered from the extract air by an efficient cross-counter-current heat exchanger. The optimised heat exchanger and minimisation of the internal pressure drop enable very quiet and efficient operation. An integrated bypass prevents unwanted heat transfer on hot days.



| | | LWZ 170 E Plus | LWZ 370 plus |
|--|---------------|----------------|--------------|
| Part number | | 233850 | 232033 |
| Specification | | | |
| Power consumption, fan | W | 138 | 172 |
| Sound power level (EN 12102) | dB(A) | 44 | 54 |
| Depth | mm | 567 | 567 |
| Air connection diameter | mm | 160 | 180 |
| Weight | kg | 38 | 38 |
| Rated voltage | V | 230 | 230 |
| Air flow rate | m³/h | 50-300 | 50-400 |
| Specific energy consumption in moderate climates, time control | kWh/ (m²a) | -38.38 | -37.23 |
| Specific energy consumption in moderate climates, central demand-dependent control | kWh/ (m²a) | -40.01 | -39.06 |
| Energy efficiency class, moderate climates, time control | | A | А |
| Energy efficiency class, mod- erate climates, central de- mand-dependent control | | A | А |
| Width | mm | 677 | 677 |
| Height | mm | 765 | 765 |
| Heat recovery level up to | % | 90 | 90 |
| Energy efficiency class | | A | A |

Supply and extract air with heat recovery, wall mounting

LWZ 70 E



LWZ 70 E

Benefits

- > Central supply and extract air system for optimum air quality
- > Pollutants are continuously removed from the living space
- > Easy adjustment with constant flow rate fan
- > High heat recovery through cross-countercurrent heat exchanger
- > Easy to program using the integral programming unit

Application • Central ventilation unit with heat recovery for ventilating apartments and detached houses.

Convenience features • Contemporary design with ergonomically arranged programming unit and separate filter cover panel. Highly efficient fan with constant flow rate control, highly efficient cross-countercurrent heat exchanger.
• The air flow rate can be selected in three stages. • Simple filter changing. • The sheet steel casing is powder coated in alpine white.

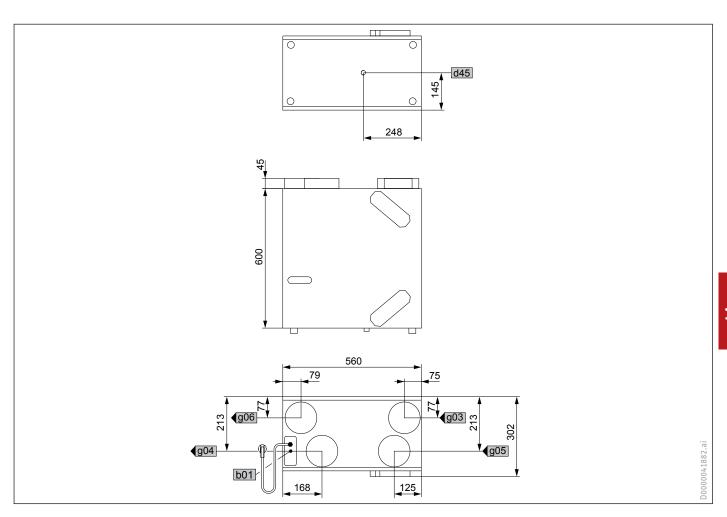
Efficiency • The constant flow rate fans with air flow rate control ensure balanced air flow rates, promoting efficient operation.

Installation • The ventilation unit is installed in residential units, for example in utility rooms. The air connections are located at the top of the unit.

| | | LWZ 70 E |
|--|-------------|-------------------|
| Part number | | 233851 |
| Specification | | |
| Power consumption, fan | w | 80 |
| Sound power level (EN 12102) | B(A) | 46 |
| Depth | mm | 290 |
| Air connection diameter | mm | 125 |
| Weight | kg | 25 |
| Rated voltage | V | 230 |
| Air flow rate | n³/h | 50-180 |
| Specific energy consumption in moderate climates, time control | Nh/ n²a) | -35.96 |
| Specific energy consumption in moderate climates, central demand-dependent control | Nh/ n²a) | -38.16 |
| Energy efficiency class, moderate climates, time control | | A |
| Energy efficiency class, mod- erate climates, central de- mand-dependent control | | А |
| Width | mm | 560 |
| Height | mm | 600 |
| Heat recovery level up to | % | 90 |
| Energy efficiency class | | A |
| Recommended accessories | | |
| Part number | | 185358 |
| Туре | | FEZ |
| Description | | Remote control |
| Part number | | 227046 |
| Туре | | LSK 70 E |
| Description | | Summer cassette |
| Part number | | 234866 |
| Туре | | ZLWZ 4 S |
| Description | | Four-stage switch |
| Part number | | 236038 |
| Туре | | ZLWZ VHR 70 E |
| Description | | Preheating coil |

Supply and extract air with heat recovery, wall mounting

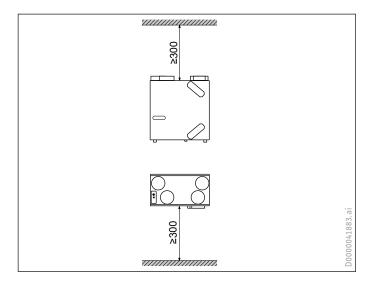
| | LWZ 70 E |
|-------------|-------------------------------|
| Maintenance | |
| Part number | 222446 |
| Туре | FMS G3-10 70 |
| Description | Filter mat set |
| Part number | 227660 |
| Type | FMK F7-2 70 |
| Description | Filter cassette set F7, 2 pce |



Supply and extract air with heat recovery, wall mounting

| | | LWZ 70 E |
|---------------------------------------|----|----------|
| b01 Entry electrical cables | | |
| d45 Condensate drain Diameter | mm | 13 |
| g03 Outdoor air Nominal di- ameter | | DN 125 |
| g04 Exhaust air Nominal di- ameter | | DN 125 |
| g05 Extract air Nominal di- ameter | | DN 125 |
| g06 Supply air Nominal diam- eter | | DN 125 |

Minimum clearance diagram

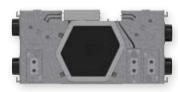


Central ventilation

Supply and extract air with heat recovery, ceiling mounting

LWZ 130

LWZ 130



Benefits

- > Central supply and extract air system for optimum air quality
-) Integral electric air preheater coil
- > Space saving installation in the ceiling

Application • The central ventilation unit with heat recovery is suitable for ventilating apartments and small detached houses.

Convenience features • Compact design, optimised for installation on suspended ceilings; recommended for living spaces up to approx. 130 m². • The hardwired controller with multifunction display can also be used as a wall mounted programming unit and is equipped with an integral humidity sensor and seven-day program. • The unit includes the following features: efficient constant flow rate fans, highly efficient cross-countercurrent heat exchanger with moisture recovery, electric preheating via high performance heating coil, electronic bypass. • Simple filter change, with coarse dust filter in the extract air and medium dust filter, with option of fine dust filter, in the supply air.

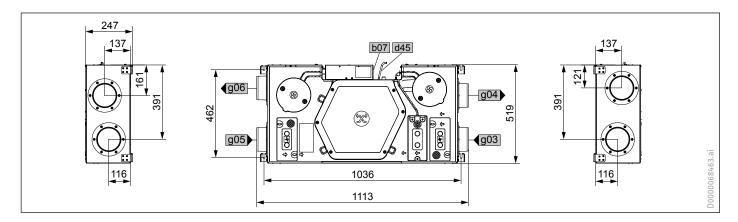
Efficiency • The constant flow rate fan enables a balanced air flow rate, which promotes efficient operation.

Installation • The ceiling mounted unit is installed in residential units, with the air connectors located on the right hand and left hand sides of the unit. • The electrical connection panel is easy to access, without having to open the unit. • The EPS casing has a partial enclosure made from zinc-plated sheet steel. • Termination on the room side by means of a service flap to be installed on site.

| | | LWZ 130 |
|--|---------------|--|
| Part number | | 237805 |
| Specification | | |
| Filter class | | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) |
| Power consumption, fan | W | 105 |
| Sound power level (EN 12102) | dB(A) | 33 |
| Depth | mm | 1113 |
| Air connection diameter | mm | 125 |
| Weight | kg | 18 |
| Rated voltage | V | 230 |
| Air flow rate | m³/h | 50-180 |
| Specific energy consumption in moderate climates, time control | kWh/ (m²a) | -36.63 |
| Energy efficiency class, moderate climates, time control | | A |
| Width | mm | 520 |
| Height | mm | 248 |
| Heat recovery level up to | % | 94 |
| Energy efficiency class | | A |

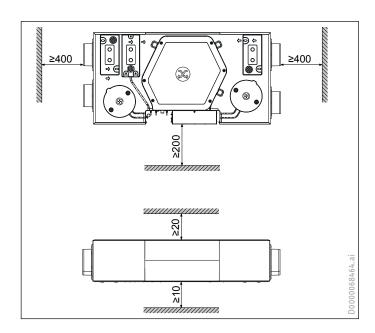
| Maintenance | |
|-------------|-------------------------------|
| Part number | 238923 |
| Туре | FMS G4-10 130/135 |
| Description | Filter mat set |
| Part number | 238924 |
| Туре | FMK M5-2 130/135 |
| Description | Filter cassette set |
| Part number | 238925 |
| Туре | FMK F7-2 130/135 |
| Description | Filter cassette set F7, 2 pce |

Supply and extract air with heat recovery, ceiling mounting



| | | LWZ 130 |
|--|----|---------|
| b07 Electrical connection Elec- trical connection | | |
| d45 Condensate drain Diameter | mm | 16.5 |
| g03 Outdoor air Diameter | mm | 125 |
| g04 Exhaust air Diameter | mm | 125 |
| g05 Extract air Diameter | mm | 125 |
| g06 Supply air Diameter | mm | 125 |

Minimum clearance diagram



Central ventilation

Supply and extract air with heat recovery, ceiling mounting

LWZ 130 E

LWZ 130 Enthalpie



Benefits

- > Central supply and extract air system for optimum air quality
-) Integral electric air preheater coil
- > Integral moisture recovery (on enthalpy version)
- > Enthalpy version simpler to install as there is no condensate drain
- > Space saving installation in the ceiling

Application • The central ventilation unit with heat recovery is suitable for ventilating apartments and small detached houses.

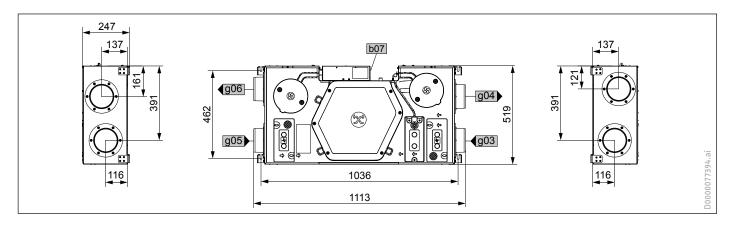
Convenience features • Compact design, optimised for installation on suspended ceilings; recommended for living spaces up to approx. 130 m². • The hardwired controller with multifunction display can also be used as a wall mounted programming unit and is equipped with an integral humidity sensor and seven-day program. • The unit includes the following features: efficient constant flow rate fans, highly efficient cross-countercurrent heat exchanger with moisture recovery, electric preheating via high performance heating coil, electronic bypass. • Simple filter change, with coarse dust filter in the extract air and medium dust filter, with option of fine dust filter, in the supply air.

Efficiency • The constant flow rate fan enables a balanced air flow rate, which promotes efficient operation.

Installation • The ceiling mounted unit is installed in residential units, with the air connectors located on the right hand and left hand sides of the unit. • The electrical connection panel is easy to access, without having to open the unit. • The EPS casing has a partial enclosure made from zinc-plated sheet steel. • Termination on the room side by means of a service flap to be installed on site.

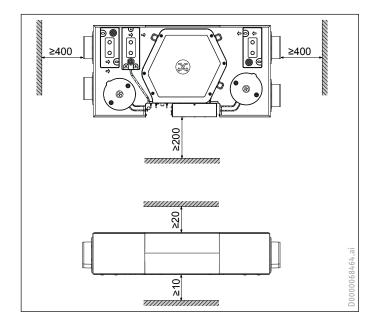
| | | LWZ 130 Enthalpie |
|--|---------------|--|
| Part number | | 237806 |
| Specification | | |
| Filter class | | ePM10 ≥ 50 % (M5) ISO Coarse > 60 % (G4) |
| Power consumption, fan | W | 105 |
| Sound power level (EN 12102) | dB(A) | 33 |
| Depth | mm | 1113 |
| Air connection diameter | mm | 125 |
| Weight | kg | 18 |
| Rated voltage | V | 230 |
| Air flow rate | m³/h | 50-180 |
| Specific energy consumption in moderate climates, time control | kWh/ (m²a) | -34.02 |
| Energy efficiency class, moderate climates, time control | | A |
| Width | mm | 520 |
| Height | mm | 248 |
| Heat recovery level up to | % | 89 |
| Energy efficiency class | | A |
| Maintenance | | |
| Part number | | 238923 |
| Туре | | FMS G4-10 130/135 |
| Description | | Filter mat set |
| Part number | | 238924 |
| Туре | | FMK M5-2 130/135 |
| Description | | Filter cassette set |
| Part number | | 238925 |
| Туре | | FMK F7-2 130/135 |
| Description | | Filter cassette set F7, 2 pce |

Supply and extract air with heat recovery, ceiling mounting



| | | LWZ 130 Enthalpie |
|--|----|-------------------|
| b07 Electrical connection Elec- trical connection | | |
| g03 Outdoor air Diameter | mm | 125 |
| g04 Exhaust air Diameter | mm | 125 |
| g05 Extract air Diameter | mm | 125 |
| g06 Supply air Diameter | mm | 125 |

Minimum clearance diagram



Ventilation

Accessories for central ventilation

| Accessories Accessories | | 437 |
|----------------------------|--|-----|
| | | |
| | | |

Accessories

FMS G4 LWZ 100



Set of 10 filter mats made of randomly laid synthetic nonwoven fabric, without the addition of chemical binders. Outstanding dust-holding capacity with little pressure loss, thanks to progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 LWZ 100 Bypass

| | FMS G4-10 LWZ 100 Bypass | FMS G4-10 LWZ 100 ABL |
|---------------|--------------------------|------------------------|
| Part number | 231446 | 231447 |
| Specification | | |
| Filter class | ISO Coarse > 60 % (G4) | ISO Coarse > 60 % (G4) |

FMS G4-10 180



Set of 10 filter mats made of randomly laid synthetic nonwoven fabric, without the addition of chemical binders. Outstanding dust-holding capacity with little pressure loss, thanks to progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 180

| | FMS G4-10 180 |
|--------------------------|------------------------|
| Part number | 234147 |
| | |
| Specification | |
| Quantity | 10 |
| Quantity Filter class | ISO Coarse > 60 % (G4) |
| Application | Ventilation units |

Accessories for central ventilation

Accessories

FMS G4-10 130



Set of 10 filter mats made of randomly laid synthetic nonwoven fabric, without the addition of chemical binders. Outstanding dust-holding capacity with little pressure loss, thanks to progressively compressed construction and an optimised nonwoven structure.

FMS G4-10 130/135

| | FMS G4-10 130/135 |
|---------------|------------------------|
| Part number | 238923 |
| | |
| Specification | |
| Quantity | 10 |
| Filter class | ISO Coarse > 60 % (G4) |
| Application | Ventilation units |

FMK M5-2 LWZ 100 ZUL



Set of 2 synthetic nonwoven filter cassettes for supply air. Low pressure drop thanks to large Z-fold compressed nonwoven filters in a rigid frame.

FMK F5-2 LWZ 100 ZUL

| | FMK F5-2 LWZ 100 ZUL |
|---------------|----------------------|
| Part number | 231448 |
| | |
| Specification | |
| Quantity | 2 |
| Filter class | ePM10 ≥ 50 % (M5) |

Accessories

FMK M5-2 180



Set of 2 synthetic nonwoven filter cassettes for supply air. Low pressure drop thanks to large Z-fold compressed nonwoven filters in a rigid frame.

FMK M5-2 180

| | FMK M5-2 180 |
|---------------|-------------------|
| Part number | 234148 |
| | |
| Specification | |
| Quantity | 2 |
| Filter class | ePM10 ≥ 50 % (M5) |
| Application | Ventilation units |

FMK M5-2 130



Set of 2 synthetic nonwoven filter cassettes for supply air. Low pressure drop thanks to large Z-fold compressed nonwoven filters in a rigid frame.

FMK M5-2 130/135

| | FMK M5-2 130/135 |
|--------------------------|-------------------|
| Part number | 238924 |
| | |
| Specification | |
| Quantity | 2 |
| Quantity Filter class | ePM10 ≥ 50 % (M5) |

Accessories for central ventilation

Accessories

FMK F7-2 70



The replacement filter cassettes for supply air are made from unbreakable polyester fibres with a partially progressive structure. They are thermally bonded, temperature-resistant to 100 $^{\circ}$ C and folded in a Z-shape within a robust frame made from moisture-resistant cardboard; with pull tab at the front.

FMK F7-2 70

| | FMK F7-2 70 |
|--------------------------|------------------------------------|
| Part number | 227660 |
| Specification | |
| Quantity | 2 |
| Quantity Filter class | ePM1 ≥ 50 % (F7) |
| Application | ePM1 ≥ 50 % (F7) Ventilation units |

FMK F7-2 100



Replacement filter cassettes for supply air, made from unbreakable polyester fibres with partially progressive structure, thermally bonded, temperature-resistant to 100 °C, folded in a Z-shape within a robust frame made from moisture-resistant cardboard; with pull tab at the front.

FMK F7-2 LWZ 100 ZUL

| | FMK F7-2 LWZ 100 ZUL |
|--------------------------|-------------------------------------|
| Part number | 231449 |
| | |
| Specification | |
| Quantity | 2 |
| Quantity Filter class | ePM1 ≥ 50 % (F7) Ventilation units |
| Application | Ventilation units |

Accessories

FMK F7-2 180



Replacement filter cassettes for supply air, made from unbreakable polyester fibres with partially progressive structure, thermally bonded, temperature-resistant to 100 $^{\circ}$ C, folded in a Z-shape within a robust frame made from moisture-resistant cardboard; with pull tab at the front.

FMK F7-2 180

| | FMK F7-2 180 |
|-----------------------|------------------------------------|
| Part number | 234208 |
| | |
| Specification | |
| Quantity Filter class | |
| | ePM1 ≥ 50 % (F7) Ventilation units |
| Application | Ventilation units |

FMK F7-2 130



Replacement filter cassettes for supply air, made from unbreakable polyester fibres with partially progressive structure, thermally bonded, temperature-resistant to 100 °C, folded in a Z-shape within a robust frame made from moisture-resistant cardboard; with pull tab at the front.

FMK F7-2 130/135

| | FMK F7-2 130/135 |
|--------------------------|-------------------|
| Part number | 238925 |
| | |
| Specification | |
| Quantity | 2 |
| Quantity Filter class | ePM1 ≥ 50 % (F7) |
| Application | Ventilation units |

Accessories for central ventilation

Accessories

LWTF 180/280



Application • Enthalpy heat exchanger for the 180 and 280 central ventilation units to replace the cross-countercurrent heat exchanger in winter months. • Highly efficient, moisture-transferring, countercurrent heat exchanger with selective plastic film membrane. • This membrane in the heat exchanger can recover the moisture from the extract air and transfer it to the supply air, thereby allowing the low relative humidity found in rooms during the winter months to be raised. • No transfer of gases or impurities, long service life, excellent leak tightness, low pressure drop, antimicrobial, resistant to frost and heat.

LWTF 180/280

| | | LWTF 180/280 |
|----------------|----|--------------|
| Part number | | 236420 |
| Specification | | |
| Height | mm | 366 |
| Width Depth | mm | 366 |
| Depth | mm | 395 |

FMS G3



Set of filter mats made of synthetic randomly laid nonwoven fabric, without the addition of chemical binders. Outstanding dust-holding capacity with little pressure loss, thanks to progressively compressed construction and an optimised nonwoven structure.

FMS G3-10 70

| | FMS G3-10 70 |
|--------------------------|------------------------|
| Part number | 222446 |
| | |
| Specification | |
| Quantity | 10 |
| Quantity Filter class | ISO Coarse > 45 % (G3) |
| Application | Ventilation units |

FEB



Benefits

- > Operating mode can be switched easily via the Touch-Wheel
- > Rapid ventilation function is started with action button
- > Filter change and fault indicators

The FEB programming unit is combined with the 180/280 central ventilation units and enables convenient operation and display of system parameters specific to the living space. Communication via i²C bus. Installation on a surface box.

FEB

| | | FEB |
|--------------------------|----|--------|
| Part number | | 236039 |
| | | |
| Specification | | |
| Width | mm | 145 |
| Height | mm | 96 |
| Width Height Depth | mm | 31 |

ZLWZ VHR



The electric preheating coil preheats the outdoor air in central ventilation units, in order to keep the cross-countercurrent heat exchanger frost-free in winter.

ZLWZ VHR 70 E

| ZLWZ VHR 70 E |
|---------------|
| 236038 |
| |
| |
| 1000 |
| 160 |
| |

Accessories for central ventilation

Accessories

FEZ



Benefits

- > Straightforward operation
- > Filter change indicator

Application • Remote control with day time switch and an operating mode switch to control the fan stages. • A selector switch is used to switch between operating modes. • In automatic mode, changeover between day and night mode is effected by the day time switch. • The remote control has a control display and integral power reserve, and shows upcoming filter changes on a time dependent basis.

FEZ

| | | FEZ |
|-----------------|----|--------|
| Part number | | 185358 |
| | | |
| Specification | | |
| IP rating | | IP 20 |
| Width | mm | 160 |
| Height Depth | mm | 78 |
| Depth | mm | 45 |

ZLWZ 4 S



The four-stage switch with LED enables setting of fan stages from the living space. The switch is compatible with 70 E, 170 E Plus and 370 Plus central ventilation units, and is supplied with a 1.5 m connecting cable. • Installation on a flush mounted switch box.

ZLWZ 4 S

| | ZLWZ 4 S |
|-------------|----------|
| Part number | 234866 |

Accessories

LSK 70



Benefits

> Temperature reduction in summer through the supply of fresh and cool outdoor air

Insert for use as an alternative to the cross-countercurrent heat exchanger in order to prevent heat transfer in summer.

LSK 70 E

| | | LSK 70 E |
|----------------|----|----------|
| Part number | | 227046 |
| | | |
| Specification | | |
| Height | mm | 458 |
| Width Depth | mm | 229 |
| Depth | mm | 283 |

Ventilation

Distribution system for integral and central ventilation

| LVE onfloor Accessories LVS infloor | | 451 |
|---|--|-----|
| Accessories | | 456 |
| LWF system Accessories | | 461 |
| riccessories | | 401 |
| | | |
| | | |

Ventilation

Distribution system for integral and central ventilation

STIEBEL ELTRON simplifies the preparation of quotations for ventilation systems. A reliable quotation can be generated in just a few steps, which comes very close to the subsequent demand for ventilation material.

- > Simple quotation preparation in just a few steps for the complete system
-) Includes the ventilation unit, the external and exhaust air ducting and the complete air distribution

Procedure

The offer can easily be determined according to square metres of living space (see example houses). Supplementary material can be obtained from wholesalers.

Step 1

> Selection of the suitable ventilation unit

Step 2

> Selection of accessories for external and exhaust air connection and air distribution connectors

Step 3

> Selection of the air distribution system

STIEBEL ELTRON offers two air distribution systems:

STANDARD AIR DISTRIBUTION SYSTEM - ONFLOOR

System for routing the air ducts in the floor structure, consisting of a central air distributor, round plastic duct DN 75, flat plastic duct 130 x 52 mm and moulded parts for the construction of wall, ceiling or floor outlets.

-) Central sound insulated air distributor with adjustable connectors for each line
-) Ideal combination of flexible round duct (LVS) and flexible flat duct (LVE)
- Installation in the floor structure (wet or dry) and/or in walls
-) Possible combinations of wall, ceiling and floor outlets

STANDARD AIR DISTRIBUTION SYSTEM - INFLOOR

System for routing the air ducts in the concrete ceiling or wooden beam layer, consisting of a central air distributor, round plastic duct DN 75 and moulded parts to accommodate the extract and supply air vents

-) Central sound insulated air distributor with adjustable connectors for each line
-) Few moulded parts, high stability and flexibility
-) Installation in the concrete ceiling or suspended ceiling
-) Position of the air outlets: ceiling

Complete overview for easy quotation and calculation of standard systems for controlled mechanical ventilation

Ventilation systems consist of the ventilation unit, the accessories for the outdoor and exhaust air connection, and an air distribution system for supply and extract air in the building. The following compilation gives sample material ranges for applications in detached houses of different sizes.

Use this overview to prepare quotations and select materials for your building project. First select the ventilation unit and combine it with an air distribution system. Further information and detailed material ranges depending on house size can be found on the following pages.

Туре

Ventilation units Integral LWZ 180/ LWZ 280/ LWZ 130/LWZ LWZ 130 LWZ 280 E/ LWZ 8 CS LWZ 180 E/ LWZ 370 P/ VRC-W400E Premium Enthalpy VRC-W400 LWZ 170 E Plus 203636/ 232361/ 237805/233851 237806 236647/203637 201290 236646/233850 232033/203636 On demand On demand On demand On demand On demand On demand

Product number

Price of the ventilation unit

| | Accessories for | or th | e connec | tion o | f outdo | or and | exhaus | l air | (unit | instal | led | on t | he | ground | d fl | loor) |
|---|-----------------|---------------|----------|--------|---------|--------|--------|-------|-------|--------|-----|------|----|--------|------|-------|
| 1 | | $\overline{}$ | | \neg | | | | | | | | | | _ | | |

| Product no. | Unit price | Туре | Designation |
|-------------|------------|--------------------|--|
| 200205 | On demand | LSWP 125-4 AL | Thermally insulated air hose, 4 m long, DN 125 |
| 239139 | On demand | KWG 125 | Combi external wall grille |
| 239231 | On demand | LWF DR 125-1 EPP | Duct insulated with EPP, DN 125, 1 m long |
| 239233 | On demand | LWF DRB 125-90 EPP | Duct bend insulated with EPP, DN 125, 90° |
| 234505 | On demand | AWG 160 R | Thermally insulating EPS wall outlet incl. weather grille with drip edge |
| 239232 | On demand | LWF DR 160-1 EPP | Duct insulated with EPP, DN 160, 1 m long |
| 239235 | On demand | LWF DRB 160-90 EPP | Duct bend insulated with EPP, DN 160, 90° |
| 159320 | On demand | LWF N 160 | Push-fit connector DN 160 |
| 234646 | On demand | LSWP 315-4 S | Thermally insulated air hose |
| 233836 | On demand | AWG 315 SR | Wall outlet with weather grille, thermally insulated |

| No. of uni | its | | | | |
|------------|-----|---|---|---|---|
| 1 | 1 | 1 | | | |
| 1 | 1 | 1 | | | |
| 2 | 2 | 2 | | | |
| 2 | 2 | 2 | | | |
| | | | 2 | 2 | |
| | | | 4 | 4 | |
| | | | 3 | 3 | |
| | | | 2 | 2 | |
| | | | | | 1 |
| | | | | | 2 |

InFloor air distribution system | Total price InFloor

| House size | |
|---------------------------------|--|
| Living space 50 m ² | |
| Living space 70 m ² | |
| Living space 100 m ² | |
| Living space 130 m ² | |
| Living space 160 m ² | |
| Living space 190 m ² | |
| Living space 220 m ² | |
| Living space 250 m ² | |
| Living space 280 m ² | |

| Price | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| | | On demand | | | |
| | | On demand | | | On demand |
| | | On demand | | | On demand |
| | | | On demand | On demand | On demand |
| | | | On demand | On demand | On demand |
| | | | On demand | On demand | On demand |

| · · · · · · · · · · · · · · · · · · · | |
|---------------------------------------|--|
| House size | |
| Living space 50 m ² | |
| Living space 70 m ² | |
| Living space 100 m ² | |
| Living space 130 m ² | |
| Living space 160 m ² | |
| Living space 190 m ² | |
| Living space 220 m ² | |
| Living space 250 m ² | |
| Living space 280 m ² | |

| Price | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| | | On demand | | | |
| | | On demand | | | On demand |
| | | On demand | | | On demand |
| | | £6.175 | On demand | On demand | On demand |
| | | £6.256 | On demand | On demand | On demand |
| | | £6.422 | On demand | On demand | On demand |

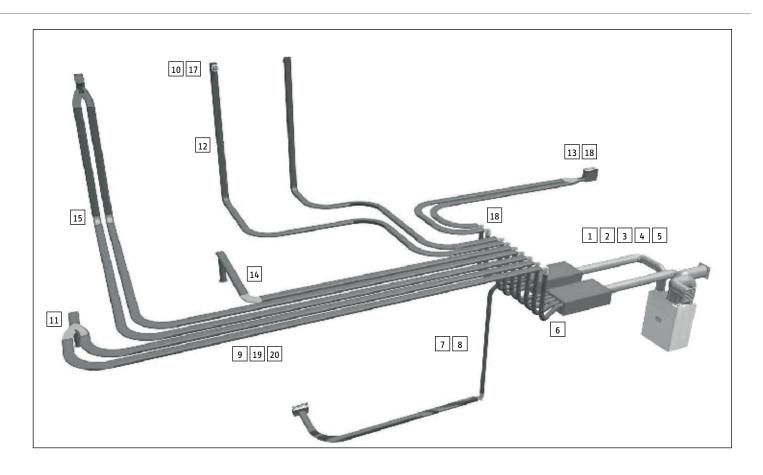
OnFloor air distribution system | Total price OnFloor

| oni loor all alsa ibadion system (lotar | price on root |
|--|---------------|
| House size | |
| Living space 50 m ² | |
| Living space 70 m ² | |
| Living space 100 m ² | |
| Living space 130 m ² | |
| Living space 160 m ² | |
| Living space 190 m ² | |
| Living space 220 m ² | |
| Living space 250 m ² | |
| Living space 280 m ² | |

| Price | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| | | On demand | | | |
| | | On demand | | | On demand |
| | | On demand | | | On demand |
| | | £6.175 | On demand | On demand | On demand |
| | | £6.256 | On demand | On demand | On demand |
| | | f6 //22 | On demand | On demand | On demand |

| House size | | |
|---------------------------------|--|--|
| Living space 50 m ² | | |
| Living space 70 m ² | | |
| Living space 100 m ² | | |
| Living space 130 m ² | | |
| Living space 160 m ² | | |
| Living space 190 m ² | | |
| Living space 220 m ² | | |
| Living space 250 m ² | | |
| Living space 280 m ² | | |

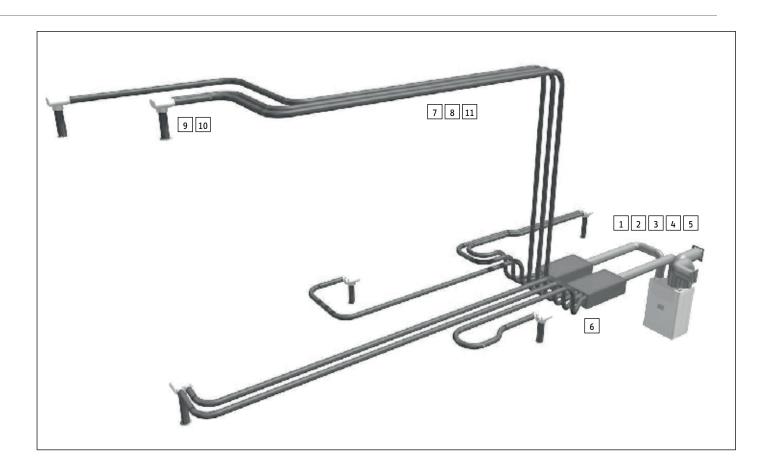
| Price | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| On demand | On demand | | | | |
| | | On demand | | | |
| | | On demand | | | On demand |
| | | On demand | | | On demand |
| | | £6.175 | On demand | On demand | On demand |
| | | £6.256 | On demand | On demand | On demand |
| | | £6.422 | On demand | On demand | On demand |



| OnFloor system (sample material range) | | | | | | | | | | | | | |
|--|-----------------------------------|---------------|--------------------------|--|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Product no. | Unit price | Туре | Designation | 50 m² | 70 m² | 100 m² | 130 m² | 160 m² | 190 m² | 220 m² | 250 m² | 280 m² |
| 1 | 159324 | | LWF RS 160 - 125 | Reducer DN 160 to DN 125 | 2 | 2 | 2 | 2 | | | | | - |
| 2 | 161095 | | LWF 125-2 | Folded spiral-seam duct DN 125, 2 m long | 2 | 2 | 2 | 2 | | | | | 1 |
| 3 | 159309 | | LWF B 125-90 | 90° duct bend DN 125 | 3 | 3 | 3 | 3 | | | | | |
| 4 | 161096 | | LWF 160 - 2 | Folded spiral-seam duct DN 160, 2 m long | | | | | 2 | 2 | 2 | 2 | 2 |
| 5 | 159329 | | LWF B 160 - 90 | 90° duct bend DN 160 | | | | | 3 | 3 | 3 | 3 | 3 |
| 6 | 234493 | | LVS VTS 9 | Sound insulating air distributor for finished walls, 9-way, adjustable | | | | | 2 | 2 | 2 | 2 | 2 |
| 7 | 201456 | | LVS VTS 6 | Sound insulating air distributor for finished walls, 6-way, adjustable | 2 | 2 | 2 | 2 | | | | | |
| 8 | 236421 | | ZLVS 0 75-10 | O-Ring seal, 10 pce. | | | | | 2 | 2 | 2 | 2 | 2 |
| 9 | 235058 | | LVS RP75 - 25 | Duct pack 25 m long DN 75 | 1 | 1 | 1 | 1 | | | | | |
| 10 | 235059 | | LVS RP 75 - 50 | Duct pack 50 m long DN 75 | | | | | 1 | 1 | 1 | 2 | 2 |
| 11 | 231111 | | LVE RP 20 | Flat, flexible plastic duct, 20 m long | 3 | 3 | 4 | 4 | 5 | 6 | 8 | 10 | 10 |
| 12 | 239124 | | LVE WA 125 0 | Wall outlet complete | 4 | 5 | 6 | 8 | 7 | 7 | 8 | 9 | 9 |
| 13 | 239126 | | LVE YS | Y piece, 3 x LVE | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 14 | 231120 | | LVE Ü 180 | Adaptor for change of position 180° | | | | | 1 | 2 | 3 | 3 | 3 |
| 15 | 231125 | | LVE FA | Floor outlet complete | | | | | 4 | 5 | 5 | 5 | 6 |
| 16 | 231122 | | LVE BF 90 | 90° bend, complete, horizontal | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 4 | 4 |
| 17 | 231123 | | LVE BH 90 | 90° bend, complete, vertical | | | | | 2 | 2 | 3 | 5 | 5 |
| 18 | 235912 | | LVE ÜB-U | Adaptor bend to LVS; connection from below | 6 | 7 | 8 | 11 | 15 | 16 | 16 | 17 | 18 |
| 19 | 239130 | | LVE WGW 125 | Slot design, painted white | 4 | 5 | 6 | 8 | 7 | 7 | 8 | 9 | 9 |
| 20 | 231115 | | LVE FG | Slot design, brushed stainless steel | | | | | 4 | 5 | 5 | 5 | 6 |
| 21 | 231113 | | LVE KF | Duct fixing clip, 10 pce | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 11 | 11 |
| 22 | 231112 LVE M Female connection, 5 | | Female connection, 5 pce | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | |

Ventilation

Distribution system for integral and central ventilation



| | InFloor | Floor system (sample material range | | | | | | | | | | | |
|----|----------------|-------------------------------------|------------------|--|-------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| | Product no. | Unit price | Туре | Designation | 50 m ² | 70 m² | 100 m² | 130 m² | 160 m² | 190 m² | 220 m² | 250 m² | 280 m² |
| | | | | | | | | | | | | | |
| 1 | 159324 | | LWF RS 160 - 125 | Reducer DN 160 to DN 125 | 2 | 2 | 2 | 2 | | | | | |
| 2 | 161095 | | LWF 125-2 | Folded spiral-seam duct DN 125, 2 m long | 2 | 2 | 2 | 2 | | | | | |
| 3 | 159309 | | LWF B 125-90 | 90° duct bend DN 125 | 3 | 3 | 3 | 3 | | | | | |
| 4 | 161096 | | LWF 160 - 2 | Folded spiral-seam duct DN 160, 2 m long | | | | | 2 | 2 | 2 | 2 | 2 |
| 5 | 159329 | | LWF B 160 - 90 | 90° duct bend DN 160 | | | | | 3 | 3 | 3 | 3 | 3 |
| 6 | 234493 | | LVS VTS 9 | Sound insulating air distributor for finished walls, 9-way, adjustable | | | | | 2 | 2 | 2 | 2 | 2 |
| 7 | 201456 | | LVS VTS 6 | Sound insulating air distributor for finished walls, 6-way, adjustable | 2 | 2 | 2 | 2 | | | | | |
| 8 | 236421 | | ZLVS 0 75-10 | O-Ring seal, 10 pce. | | | | | 2 | 2 | 2 | 2 | 2 |
| 9 | 235058 | | LVS RP75 - 25 | Duct pack 25 m long DN 75 | | 1 | | | | 1 | 1 | 1 | T |
| 10 | 235059 | | LVS RP 75 - 50 | Duct pack 50 m long DN 75 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 | 5 |
| 11 | 239125 | | LVS WA 125-2-75 | Wall outlet complete | 4 | 5 | 6 | 9 | 12 | 13 | 14 | 15 | 16 |
| 12 | 239130 | | LVE WGW 125 | Air grille, slot design, painted white, 125 mm | 4 | 5 | 6 | 9 | 12 | 13 | 14 | 15 | 16 |
| 13 | 224897 | | LVS M 75 | Female connection DN 75, 5 pce. | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Benefits

- > Flat flexible air duct made of plastic (Product: 231111)
- Internal pipe with low installed height (Product: 231111)

LVE onfloor flat and flexible plastic air duct; internal pipe with low installed height.

LVE RP 20

| | | LVE RP 20 |
|-----------------|----|-----------|
| Part number | | 231111 |
| Specification | | |
| Specification | | |
| Height | mm | 52 |
| Width Length | mm | 130 |
| Length | mm | 20000 |

LVE BF



Benefits

- > Horizontal bend for the flexible air duct (Product: 231121, 231122)
- > 45° angle (Product: 231121)
-) 90° angle (Product: 231122)

Bend for plastic LVE onfloor flat and flexible air distribution system.

LVE BF 45

| | | LVE BF 45 | LVE BF 90 |
|---------------|----|-----------|-----------|
| Part number | | 231121 | 231122 |
| | | | |
| Specification | | | |
| Height | mm | 57 | 57 |
| Width | mm | 225 | 250 |
| Length | mm | 225 | 250 |

LVE onfloor

LVE BH



Benefit

- > Upright bend for the flexible air duct (Product: 231123)
-) 90° angle (Product: 231123)

90° vertical bend for plastic LVE onfloor flat and flexible air distribution system.

LVE BH 90

| | | LVE BH 90 |
|-----------------|----|-----------|
| Part number | | 231123 |
| Cuccification | | |
| Specification | | |
| Height | mm | 98 |
| Width | mm | 98 |
| Width Length | mm | 207 |

LVE Ü 180



Benefits

- > Adaptor for flexible air duct (Product: 231120)
- > 180° change of direction (Product: 231120)

Adaptor for 180° change of position, for plastic LVE onfloor flat and flexible air distribution system.

LVE Ü 180

| | | LVE Ü 180 |
|-----------------|----|-----------|
| Part number | | 231120 |
| | | |
| Specification | | |
| Height | mm | 69 |
| Width | mm | 144 |
| Width Length | mm | 64 |

10

Distribution system for integral and central ventilation

LVE onfloor

LVE Ü 90



Adaptor for connecting LVS pipe DN 75/90 to plastic LVE onfloor flat and flexible air distribution system.

LVE Ü 90

| | | LVE Ü 90 |
|-----------------|----|----------|
| Part number | | 233032 |
| | | |
| Specification | | |
| Height | mm | 95 |
| Width Length | mm | 144 |
| Length | mm | 100 |

LVE ÜB-0



Benefits

- > Plastic adaptor bend (Product: 235913, 235912)
- > With gasket and locking clip (Product: 235913, 235912)
- > Connection to the screed from above (Product: 235913)
- > Connection to the screed from below (Product: 235912)

Adaptor bend for connecting LVS pipe DN 75/90 to LVE onfloor flexible air distribution system; plastic with gasket and locking clip. LVS connection for routing the LVE on screed.

LVE ÜB-0

| | | LVE ÜB-0 | LVE ÜB-U |
|---------------|----|----------|----------|
| Part number | | 235913 | 235912 |
| | | | |
| Specification | | | |
| Height | mm | 120 | 120 |
| Width | mm | 144 | 144 |

LVE onfloor

LVE M



Female connection for plastic LVE onfloor flat and flexible air distribution system.

LVE M

| | | LVE M | LVE RA |
|---------------------------|----|--------|--------|
| Part number | | 231112 | 231117 |
| Specification | | | |
| Height | mm | 55 | 35 |
| Width | mm | 130 | |
| Height Width Length | mm | 115 | 130 |

LVE YS



Benefits

- > Y piece for flexible air duct (Product: 239126)
- > Division of the flow across two ducts (Product: 239126)

Y piece for plastic LVE onfloor flat and flexible air distribution system.

LVE YS

| | | LVE YS |
|---------------------------|----|--------|
| Part number | | 239126 |
| | | |
| Specification | | |
| Height | mm | 57 |
| Width | mm | 300 |
| Height Width Length | mm | 300 |

10

Distribution system for integral and central ventilation

LVE onfloor

LVE KF



Benefit

- > Duct fixing sets consisting of sturdy brackets (Product: 231113)
- > For fixing the flexible air duct on the unfinished concrete floor (Product: 231113)
- > Suitable for impact rawl plugs (Product: 231113)

Duct fixing clip made from robust sheet steel brackets, for securing the flexible LVE onfloor air duct to an unfinished concrete floor. Suitable for impact rawl plugs.

LVE KF

| | | LVE KF |
|-----------------|----|--------|
| Part number | | 231113 |
| | | |
| Specification | | |
| Height | | 53 |
| Width Length | mm | 25 |
| Length | mm | 215 |

LVE WA



Benefits

- > Wall outlet made from corrosion-resistant, odour-neutral plastic (Product: 239124, 239690)
- > Connection options for flexible air duct (Product: 239124, 239690)
- > With dummy cover (Product: 239124, 239690)

Wall outlet made from corrosion-resistant, odour-neutral plastic. Connection options for LVE onfloor flexible air duct.

LVE WA 125 0

| | | LVE WA 125 0 | LVE WA 125 U |
|---------------|----|--------------|--------------|
| Part number | | 239124 | 239690 |
| | | | |
| Specification | | | |
| Height | mm | 150 | 150 |
| Width | mm | 144 | 144 |
| Length | mm | 460 | 460 |

LVS infloor

LVS RP



Benefits

- > Flexible pipes made of PE plastic (Product: 235059)
- Odour-neutral and antistatic (Product: 235059)
- > Hygienically unproblematic (Product: 235059)

Flexible LVS corrugated plastic pipe; corrugated on the outside, smooth on the inside; odour-neutral and antistatic.

LVS RP 75-50

| | | LVS RP 75-50 | LVS RPAG 75-50 | LVS RP90 Rohrpaket |
|---------------|----|--------------|----------------|--------------------|
| Part number | | 235059 | 203750 | 223320 |
| | | | | |
| Specification | | | | |
| Weight | kg | 17 | | 12 |
| Diameter | mm | 75 | | 90 |

LVS VTS



Benefits

- > Excellent sound attenuation at low frequencies
- Distributor plate and inspection cover can be interchanged
- Can be installed on the wall, ceiling or in a stud frame
- Air volumes can be adjusted at the distributor

The sound insulated air distributor for LVS infloor and LVS onfloor flexible air distribution systems is mounted on the wall or ceiling.

LVS VTS 6

| | | LVS VTS 6 | LVS VTS 9 |
|----------------------|----|-----------|----------------------------------|
| Part number | | 201456 | 234493 |
| Specification | | | |
| Height | mm | 150 | 250 |
| Width | mm | 500 | 500 |
| Length | mm | 640 | 1165 |
| Required accessories | | | |
| Part number | | | 236421 |
| Туре | | | ZLVS O 75-10 Dichtring (10 Stk.) |
| Description | | | O-ring set DN 90, 10 pce. |

LVS infloor

ZLVS VTÜ



Adaptor DN 75 to DN 90 LVS

ZLVS VTÜ 75-90

| | | ZLVS VTÜ 75-90 |
|----------------------|----|----------------------------------|
| Part number | | 234494 |
| | | |
| Specification | | |
| Height | mm | 92 |
| Width | mm | 92 |
| Length | mm | 150 |
| | | |
| Required accessories | | |
| Part number | | 236421 |
| Type | | ZLVS 0 75-10 Dichtring (10 Stk.) |
| Description | | O-ring set DN 90, 10 pce. |
| Part number | | 236422 |
| Туре | | ZLVS 0 90-10 |
| Description | | O-ring set DN 90, 10 pce. |

LVS M



Sleeve for the LVS infloor air distribution system.

LVS M 75 Muffen-Set 5 Stk.

| | | LVS M 75 Muffen-Set 5 Stk. |
|--------------------|----|----------------------------|
| Part number | | 224897 |
| | | |
| Specification | | |
| Length Diameter | mm | 154 |
| Diameter | mm | 75 |

LVS infloor

ZLVS O



The seal ring set contains O-rings for the LVS pipe set. These are used to seal the connections on the VTS distributor and the LVS diverter.

ZLVS O 75-10 Dichtring (10 Stk.)

| | ZLVS O 75-10 Dichtring (10 Stk.) | ZLVS 0 90-10 |
|-------------|----------------------------------|--------------|
| Part number | 236421 | 236422 |

LVS DA



Diverter to DN 100 for the LVS infloor flexible air distribution system.

LVS DA 75-125-2

| | | LVS DA 75-125-2 |
|---------------------------|----|-----------------|
| Part number | | 236423 |
| | | |
| Specification | | |
| Height | mm | 445 |
| Height Width Length | mm | 230 |
| Length | mm | 250 |

LVS infloor

LVS WA



Benefit

- > Wall outlet made of corrosion-resistant, odour-neutral plastic (Product: 239125)
- > Connection options for flexible air duct (Product: 239125)
- > With dummy cover (Product: 239125)

Wall/ceiling outlet made from corrosion-resistant, odour-neutral plastic. Connection options for flexible LVS infloor air duct, with dummy cover.

LVS WA 125-2-75

| | | LVS WA 125-2-75 |
|-----------------|----|-----------------|
| Part number | | 239125 |
| Specification | | |
| Height | mm | 150 |
| Width | mm | 144 |
| Width Length | mm | 490 |

LVS AS







Connector for the LVS flexible air distribution system.

LVS AS 75

| | | LVS AS 7: |
|--------------------|----|-----------|
| Part number | | 22331 |
| | | |
| Specification | | |
| Height | mm | 98 |
| Width | mm | 98 |
| Length Diameter | mm | 53 |
| Diameter | mm | 75 |

LVS infloor

LVS SVG



Air distributor for LVS flexible distribution system, suitable for installation in the concrete ceiling.

LVS SVG 160-12

| | | LVS SVG 160-12 |
|-----------------|----|----------------|
| Part number | | 232118 |
| Specification | | |
| Height | mm | 130 |
| Width Length | mm | 270 |
| Length | mm | 540 |

LVS SVM



Air distributor for LVS flexible distribution system, suitable for installation in the concrete ceiling.

LVS SVM 160-8

| | | LVS SVM 160-8 |
|---------------|----|---------------|
| Part number | | 232117 |
| | | |
| Specification | | |
| Height | mm | 130 |
| Width | mm | 270 |
| Length | mm | 330 |





LWF T 160 - 160

| | | LWF T 160 - 160 |
|------------------------------|----|-----------------|
| Part number | | 159323 |
| | | |
| Specification | | |
| Installed length | mm | 229 |
| Installed length Diameter | mm | 160 |

LWF M 100



Sleeve connector for folded spiral-seam tubes made from zinc-plated sheet steel with rolling ring sealing system.

Tee for folded spiral-seam tubes made from zinc-plated sheet steel with rolling ring sealing system.

LWF M 125

| | | LWF M 125 |
|---------------|----|-----------|
| Part number | | 159299 |
| Specification | | |
| Diameter | mm | 125 |

LWF system

LWF N 100



Push-fit connector for folded spiral-seam tubes made from zinc-plated sheet steel with rolling ring sealing system.

LWF N 160

| | | LWF N 160 |
|------------------------------|----|-----------|
| Part number | | 159320 |
| | | |
| Specification | | |
| Installed length | mm | 8 |
| Installed length Diameter | mm | 160 |

LWF RS 125 - 100



Reducer for folded spiral-seam tube made from zinc-plated sheet steel, with rolling ring sealing system.

LWF RS 160 - 125

| | | LWF RS 160 - 125 |
|---------------------------|----|------------------|
| Part number | | 159324 |
| | | |
| Specification | | |
| Installed length Diameter | mm | 66 |
| Diameter | mm | 160 |
| Reducer diameter | mm | 125 |



The flexible aluminium tube to DIN 24146 is folded in two layers and suitable for connecting the appliance to the pipework.

LWF F 125 - 5

| | | LWF F 125 - 5 | LWF F 160 - 5 |
|---------------|----|---------------|---------------|
| Part number | | 159334 | 159332 |
| Specification | | | |
| Diameter | mm | 125 | 160 |

LWF DR



Pipework thermally insulated with polyethylene foam, a vapour diffusion-proof, very light and self-supporting material, for routing outdoor and exhaust air.

LWF DR 125-1 EPP

| | | LWF DR 125-1 EPP | LWF DR 160-1 EPP |
|---------------|----|------------------|------------------|
| Part number | | 239231 | 239232 |
| | | | |
| Specification | | | |
| Length | mm | 1000 | 1000 |
| Diameter | mm | 125 | 160 |

LWF system

LWF DRB



Pipework thermally insulated with polyethylene foam, a vapour diffusion-proof, very light and self-supporting material, for routing outdoor and exhaust air.

LWF DRB 125-45 EPP

| | LWF DRB 125-45 EPP | LWF DRB 125-90 EPP | LWF DRB 160-45 EPP | LWF DRB 160-90 EPP |
|---------------|--------------------|--------------------|--------------------|--------------------|
| Part number | 239234 | 239233 | 239236 | 239235 |
| Specification | | | | |
| Bend radius | 45 | 90 | 45 | 90 |
| Material | Foam | Foam | Foam | Foam |

LWF DRM



Sound insulated and thermally insulated rigid pipework, with flange collar push-fit connector.

LWF DRM 125 EPP

| | LWF DRM 125 EPP | LWF DRM 160 EPP |
|-------------|-----------------|-----------------|
| Part number | 239237 | 239238 |

LWF system

LWF S



Silencer consisting of an external pipe, a perforated internal pipe and 2 connection ends sized for connectors. • The space is filled with sound-absorbing insulation material, with a fibreglass fleece between the internal pipe and the insulation to protect the air flow.

LWF S 160 - 0,9

| | | LWF S 160 - 0,9 |
|-------------------|----|-----------------|
| Part number | | 159346 |
| Specification | | |
| Length | m | 0.9 |
| Nominal diameter | mm | 160 |
| External diameter | mm | 280 |

Noise attenuating element made from foam, four per pack (Product: 159346)

LWF SK



Benefits

> Excellent sound attenuation at low frequencies

The splitter silencer consists of an external pipe, a perforated internal pipe, a baffle and two connection ends with double lip gasket. It is used to reduce noise levels in the exhaust air at the external grille for integral systems and air source heat pumps. The space is filled with sound-absorbing insulation material. A glass fleece between the internal pipe and insulation prevents any contact between the insulating material and the air stream.

LWF SK 315 - 0,6

| | | LWF SK 315 - 0,6 |
|-------------------|----|------------------|
| Part number | | 202933 |
| | | |
| Specification | | |
| Nominal diameter | mm | 315 |
| External diameter | mm | 515 |

LWF system

LWF SF



The silencer consists of an Aluflex external pipe, a perforated Aluflex internal pipe and 2 connection ends sized for connectors. • The space is filled with sound-absorbing insulation material, with a fibreglass fleece between the internal pipe and the insulation to protect the air flow.

LWF SF 315 - 1

| | | LWF SF 315 - 1 |
|----------------------------|----|----------------|
| Part number | | 170018 |
| Specification | | |
| Length Nominal diameter | m | 1 |
| Nominal diameter | mm | 315 |
| External diameter | mm | 415 |

LWF LB



Installation material for securing the air distribution system.

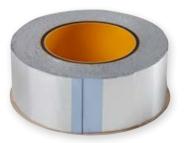
Lochband 10m

| | | Lochband 10m |
|-----------------|----|--------------|
| Part number | | 159348 |
| | | |
| Specification | | |
| Width | mm | 16 |
| Width Length | m | 10 |

Distribution system for integral and central ventilation

LWF system

LWF KB



High quality butyl adhesive tape, for sealing of connections in air duct systems. High adhesive strength.

LWF KB 10

| | | LWF KB 10 |
|-----------------|----|-----------|
| Part number | | 227948 |
| | | |
| Specification | | |
| Width | mm | 50 |
| Width Length | m | 10 |

LWF AVM



Extract air vents for wall or ceiling mounting in central supply/extract air systems, adjustable air flow rate, with pipe connectors.

LWF AVM 125

| | | LWF AVM |
|--------------------------|------|---------|
| Part number | | 227 |
| | | |
| Specification | | |
| Max. air flow rate | m³/h | |
| Connection diameter | mm | |
| Air flow rate adjustable | | |
| Material | | |

Distribution system for integral and central ventilation

LWF system

LWF ZVM



Supply air vents for ceiling mounting in central supply air systems; adjustable air flow rate, incl. pipe connectors.

LWF ZVM 125

| | | LWF ZVM 125 |
|--------------------------|------|-------------|
| Part number | | 230163 |
| | | |
| Specification | | |
| Max. air flow rate | m³/h | 40 |
| Connection diameter | mm | 125 |
| Air flow rate adjustable | | • |
| Material | | Sheet steel |

KWG 125-160

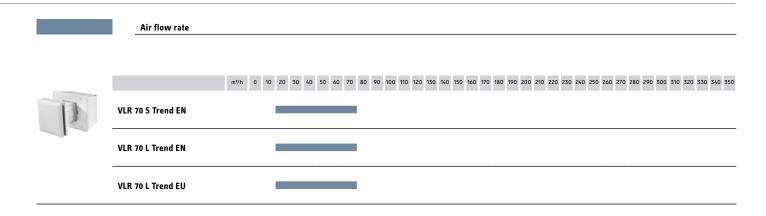


The combined intake/discharge grille is installed on the external wall and is suitable for routing of outdoor and exhaust air for central ventilation units with heat recovery. Exhaust air and outdoor air are arranged next to each other. The grille is made from galvanised sheet steel in silver grey with powder coated finish.

KWG 125

| | | KWG 125 |
|---------------------|------|---------|
| Part number | | 239139 |
| | | |
| Specification | | |
| Max. air flow rate | m³/h | 200 |
| Connection diameter | mm | 125 |

Application areas



Ventilation

Decentralised ventilation in residential buildings

| Supply and extract air with heat recovery VLR 70 S/L Trend Extract air without heat recovery Accessories | | 475 477 | |
|--|--|------------|--|
| | | | |
| | | | |
| | | | |

Ventilation

Decentralised ventilation in residential buildings

Complete overview for easy quotation and calculation of standard systems for controlled mechanical ventilation

VVentilation systems consist of the ventilation units for the bathroom/WC and living space, as well as the corresponding accessories for the ventilation units. The following compilation gives sample material ranges for applications in detached houses and multistorey apartment buildings of different sizes.

Use this overview to prepare quotations and select materials for your building project. First select the appropriate number of extractors for your bathroom and/or WC and combine this with the number of bidirectional fans for your living space. Further information and detailed material ranges depending on house size can be found on the following pages.

| Living space | :e | | | | |
|--------------|-------|-------------------|--------|--------|--------|
| 40 m² | 60 m² | 80 m ² | 100 m² | 120 m² | 140 m² |

Bathroom/WC - LA 60

| Product no. | Unit price | Туре | Designation |
|-------------|---|-----------------|--|
| 201451 | On demand | LA 60 VE-A | LA 60 decentralised ventilation unit for surface mounting |
| 201453 | On demand | ZLA 60-T | Control module with time run-on for LA 60 |
| 231104 | On demand | LWF W 100 VA-60 | External wall outlet DN 100 for LA 60 |
| 201454 | On demand | ZLA 60-H | Control module with humidity sensor for LA 60 |
| 201450 | On demand | LA 60 VE-U | LA 60 decentralised ventilation unit for flush mounted housing |
| 201448 | On demand | LA 60 G-U | Flush mounted housing for LA 60 |
| 201449 | On demand LA 60 G-UB Flush mounted housing for protection shut-off device | | Flush mounted housing for LA 60 with fire protection shut-off device |
| | | | LA 60 |

| No. of units | | | | | | | | | | |
|--------------|---|---|---|---|---|--|---|--|---|--|
| 1 | 1 | 1 | 2 | 1 | 2 | | 2 | | 2 | |
| 1 | 1 | 1 | 2 | 1 | 2 | | 2 | | 2 | |
| | | | 1 | | 1 | | 1 | | 1 | |
| | | | 1 | | 2 | | 1 | | 2 | |
| 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Living spaces - VLR 70 L Trend EU

| Pr | oduct no. | Unit price | Туре | Designation |
|----|-----------|------------|----------------------|---|
| 20 | 03133 | On demand | VLR 70 L Trend EU | Fan unit, inner + outer hood, telescope housing |
| 23 | 39570 | On demand | VLR 70-2 CU | Control unit for 2 units |
| 23 | 39571 | On demand | VLR 70-4 CU | Control unit for up to 4 units |
| 23 | 39572 | On demand | VLR 70-8 CU | Control unit for up to 8 units |
| | | | | VLR 70 L Trend EU |

| No. of units | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 4 | 2 | 4 | 4 | 6 | 4 | 6 | 4 |
| 1 | 1 | | 1 | | | | | | |
| | | 1 | | 1 | 1 | | 1 | | 1 |
| | | | | | | 1 | | 1 | |
| | | | | | | | | | |

Living spaces - VLR 70 S Trend EU

| Pro | duct no. | Unit price | Туре | Designation |
|-----|----------|--------------------------|-------------|---|
| 202 | 132 | On demand VLR 70 S Trend | | Fan unit, inner + outer hood, telescope |
| 203 | 132 | On demand | EU | housing |
| 239 | 570 | On demand | VLR 70-2 CU | Control unit for 2 units |
| 239 | 571 | On demand | VLR 70-4 CU | Control unit for up to 4 units |
| 239 | 572 | On demand | VLR 70-8 CU | Control unit for up to 8 units |
| | | | | VLR 70 S Trend EU |

| No. of units | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| 2 | 2 | 4 | 2 | 4 | 4 | 6 | 4 | 6 | 4 |
| 1 | 1 | | 1 | | | | | | |
| | | 1 | | 1 | 1 | | 1 | | 1 |
| | | | | | | 1 | | 1 | |
| | | | | | | | | | |

Additional articles LA 60

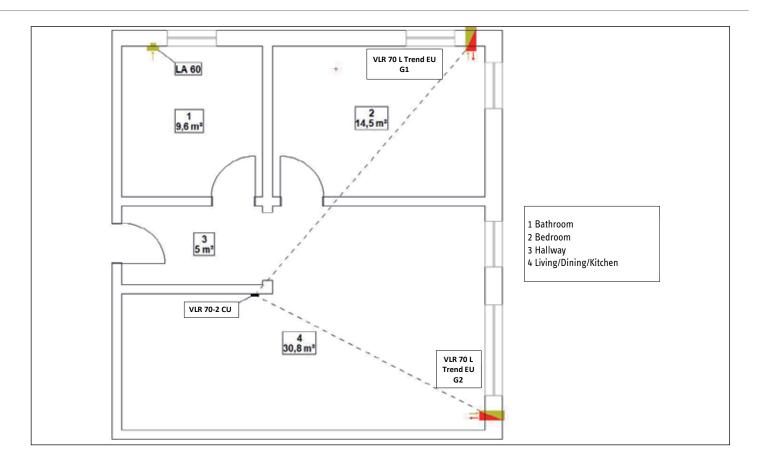
| Product no. | Unit price | Туре | Designation |
|-------------|------------|----------------|---|
| 201452 | On demand | LA 60 BRA | Fire protection shut-off device for LA 60 |
| 201455 | On demand | FMS G2-5 LA 60 | G2 filter mat set for LA 60, 5 pce |

| No. of unit | s | | | | | | |
|-------------|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

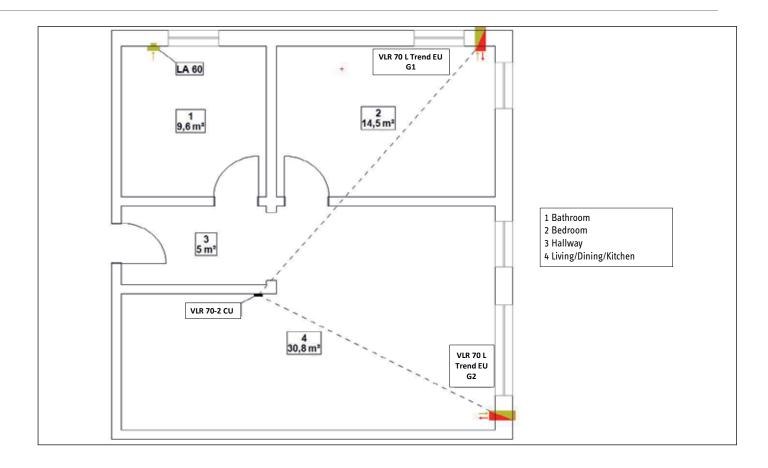
Additional/alternative articles VLR 70 L Trend EU

| Product no. | Unit price | Туре | Designation |
|-------------|------------|--------------------------------|--------------------------|
| 239562 | On demand | SP VLR 70 RF Coarse 30 G2-4 | Filter set G2, 4 pce |
| 239575 | On demand | SP VLR 70 RF Coarse 60 G4-4 | Filter set G4, 4 pce |
| 239576 | On demand | SP VLR 70 RF ePM10 50 M5-4 | Filter set M5, 4 pce |
| 239577 | On demand | SP VLR 70 RF ePM1 50 F7-4 | Filter set F7, 4 pce |
| 203140 | On demand | Telescope (S) | Telescope housing 315 mm |

| No. of units | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |



| Exam | ole – material | range for different | house sizes for quick easy calculation | | | | | | | | | | |
|---------|----------------|--------------------------------|---|-------|-------|-------|---|--------|---|--------|---|--------|---|
| Product | o. Unit price | Туре | Designation | 40 m² | 60 m² | 80 m² | | 100 m² | | 120 m² | | 140 m² | |
| 203133 | On demand | VLR 70 L Trend EU | Fan unit, inner + outer hood, telescope housing | 2 | 2 | 4 | 2 | 4 | 4 | 6 | 4 | 6 | 4 |
| 239570 | On demand | VLR 70-2 CU | Control unit for 2 units | 1 | 1 | | 1 | | | | | | |
| 239571 | On demand | VLR 70-4 CU | Control unit for up to 4 units | | | 1 | | 1 | 1 | | 1 | | 1 |
| 239572 | On demand | VLR 70-8 CU | Control unit for up to 8 units | | | | | | | 1 | | 1 | |
| 239570 | On demand | VLR 70-2 CU | Control unit for 2 units | 1 | 1 | | 1 | | | | | | |
| 239571 | On demand | VLR 70-4 CU | Control unit for up to 4 units | | | 1 | | 1 | 1 | | 1 | | 1 |
| 239572 | On demand | VLR 70-8 CU | Control unit for up to 8 units | | | | | | | 1 | | 1 | |
| 201458 | On demand | VLR 70 L Trend EN | Fan unit, inner + outer hood, telescope housing | 2 | 2 | 4 | 2 | 4 | 4 | 6 | 4 | 6 | 4 |
| 23957 | On demand | VLR 70-2 CU | Control unit for 2 units | 1 | 1 | | 1 | | | | | | |
| 23957 | 1 On demand | VLR 70-4 CU | Control unit for up to 4 units | | | 1 | | 1 | 1 | | 1 | | 1 |
| 1 23957 | 2 On demand | VLR 70-8 CU | Control unit for up to 8 units | | | | | | | 1 | | 1 | |
| 2 23957 | 0 On demand | VLR 70-2 CU | Control unit for 2 units | 1 | 1 | | 1 | | | | | | |
| 3 23957 | 1 On demand | VLR 70-4 CU | Control unit for up to 4 units | | | 1 | | 1 | 1 | | 1 | | 1 |
| 4 23957 | 2 On demand | VLR 70-8 CU | Control unit for up to 8 units | | | | | | | 1 | | 1 | |
| 5 23956 | 2 On demand | SP VLR 70 RF Coarse 30 G2-4 | Filter set G2, 4 pce | | | | | | | | | | |
| 5 23957 | 5 On demand | SP VLR 70 RF Coarse 60 G4-4 | Filter set G4, 4 pce | | | | | | | | | | |
| 7 23957 | 6 On demand | SP VLR 70 RF ePM10 50 M5-4 | Filter set M5, 4 pce | | | | | | | | | | |
| 8 23957 | 7 On demand | SP VLR 70 RF ePM1 50 F7-4 | Filter set F7, 4 pce | | | | | | | | | | |
| 9 20314 | 0 On demand | Telescope (S) accessory | Telescope housing 315 mm | | | | | | | | | | |



| Example – material range for different house sizes for quick easy calculation | | | | | | | | | | | | | |
|---|------------|-----------------|--|-------|-------|-------------------|---|--------|---|--------|---|--------|---|
| Product no. | Unit price | Туре | Designation | 40 m² | 60 m² | 80 m ² | | 100 m² | | 120 m² | | 140 m² | |
| 201451 | On demand | LA 60 VE-A | LA 60 decentralised ventilation unit for surface mounting | 1 | 1 | 1 | 2 | 1 | 2 | | 2 | | 2 |
| 201453 | On demand | ZLA 60-T | Control module with time run-on for LA 60 | | | | 1 | | 1 | | 1 | | 1 |
| 231104 | On demand | LWF W 100 VA-60 | External wall outlet DN 100 for LA 60 | | | | 1 | | 1 | | 2 | | 2 |
| 201454 | On demand | ZLA 60-H | Control module with humidity sensor for LA 60 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | 1 |
| 201450 | On demand | LA 60 VE-U | LA 60 decentralised ventilation unit for flush mounted housing | | | | | | | | | | |
| 201448 | On demand | LA 60 G-U | Flush mounted housing for LA 60 | | | | | | | | | | |
| 201449 | On demand | LA 60 G-UB | Flush mounted housing for LA 60 with fire protection shut-off device | | | | | | | | | | |
| 201452 | On demand | LA 60 BRA | Fire protection shut-off device for LA 60 | | | | | | | | | | |
| 201455 | On demand | FMS G2-5 LA 60 | G2 filter mat set for LA 60, 5 pce | | | | | | | | | | |

Supply and extract air with heat recovery

VLR 70 S/L Trend



VLR 70 S Trend EN

Benefits

- > Decentralised ventilation unit with heat recovery for new build and modernisation
- > Rapid, hygienic cleaning thanks to aluminium heat exchanger
- > Very good filter performance due to filters on the inside and outside
- > No condensate run marks on the wall face
- > Quick tool-free filter change and tool-free visual monitoring of the heat exchanger, due to compact design of fan unit

Application • The decentralised ventilation unit with heat recovery is used for ventilating apartments and small commercial properties.

Convenience features • Contemporary design with separate programming unit, for use in living space of up to approx. 100 m². • The axial fan with stable backpressure is also suitable for use in locations exposed to the wind. • With efficient aluminium heat exchanger and external panel that is watertight against heavy rain. • Straightforward filter replacement thanks to easy to remove fan unit. Fine dust filter available as an accessory. • White powder coated stainless steel external panel. Matt white plastic internal panel.

Efficiency • EC fan ensures efficient operation.

Installation • Installation in round or square wall outlets. Easily accessible electrical connection on the inside of the

| | | VLR 70 L Trend EU |
|---|-------|---|
| Part number | | 203133 |
| Specification | | |
| Sound power level LW total rel- ative to air flow rate | dB(A) | 35 (at 20 m³/h) |
| Weight | kg | 5.20 |
| IP rating | | IP 21 |
| Air flow rate | m³/h | 20/30/40/49/70 |
| Width | mm | 360 |
| Rated voltage | V | 24 |
| Depth | mm | 780 |
| Height | mm | 285 |
| Required accessories | | |
| Part number | | 239570 |
| Type | | VLR 70-2 CU |
| Description | | Control set for up to 2 decentralised ventilation units, VLR 70 |
| Part number | | 239571 |
| Туре | | VLR 70-4 CU |
| Description | | Control set for VLR 70 |
| Part number | | 239572 |
| Type | | VLR 70-8 CU |
| Description | | Control set for VLR 70 |
| Recommended accessories | | |
| Part number | | 239562 |
| Type | | SP VLR 70 RF COARSE 30 G2-4 |
| Description | | Filter for VLR 70 |
| Part number | | 239575 |
| Туре | | SP VLR 70 RF COARSE 60 G4-4 |
| Description | | Filter for VLR 70 |
| Part number | | 239576 |
| Туре | | SP VLR 70 RF EPM10 50 M5-4 |
| Description | | Filter for VLR 70 |
| Part number | | 239577 |
| Туре | | SP VLR 70 RF EPM1 50 F7-4 |
| Description | | Filter for VLR 70 |
| | | |

| | VLR 70 L Trend EU |
|-------------|-----------------------------|
| Maintenance | |
| Part number | 239562 |
| Туре | SP VLR 70 RF COARSE 30 G2-4 |
| Description | Filter for VLR 70 |
| Part number | 239575 |
| Туре | SP VLR 70 RF COARSE 60 G4-4 |
| Description | Filter for VLR 70 |
| Part number | 239576 |
| Туре | SP VLR 70 RF EPM10 50 M5-4 |
| Description | Filter for VLR 70 |
| Part number | 239577 |
| Туре | SP VLR 70 RF EPM1 50 F7-4 |
| Description | Filter for VLR 70 |

Extract air without heat recovery

LA 60 VE



Renefits

- > Fan unit for flush mounting (Product: 201450)
- > Fan unit for single ventilation units to DIN 18017-3 (Product: 201450, 201451)
- > Quiet operation (Product: 201450, 201451)
- > Fan unit for surface mounting (Product: 201451)

Application • The fan unit for extractor fans ventilates rooms without outside windows.

Convenience features • The casing, internal panel and filter holder are made from high quality white plastic. The unit's modular structure and plug-in control module allow flexibility when selecting the range of functions for the extract air unit. Subsequent replacement of the control module is possible without needing to uninstall.

Efficiency • The fan unit has a precision external rotary motor.

LA 60 VE-U

Installation • Depending on the selected version, the appliances are suitable for flush installation in walls and ceilings or surface mounting. The electrical connection of the fan unit is easily accessible.

| | | LA 60 VE-U | LA 60 VE-A |
|----------------------|------|--|--|
| Part number | | 201450 | 201451 |
| | | | |
| Specification | | | |
| Air flow rate | m³/h | 30/60 | 30/60 |
| | | | |
| Required accessories | | | |
| Part number | | 201448 | |
| Туре | | LA 60 G-U | |
| Description | | Flush mounted casing | |
| Part number | | 201453 | 201453 |
| Туре | | ZLA 60-T | ZLA 60-T |
| Description | | Control module with adjustable start delay and run-on or humidity control | Control module with adjustable start delay and run-on or humidity control |
| Part number | | 201454 | 201454 |
| Туре | | ZLA 60-H | ZLA 60-H |
| Description | | Control module with adjustable start delay and run-on or humidity control | Control module with adjustable start delay and run-on or humidity control |

ΙΔ 70



LA 70 VE-U

Benefits

- > Suitable for installation in walls and ceilings
- > The plug-in control module enables retrospective functional modifications
- The iris shutter in the internal panel prevents unwanted inflow of outdoor air and reduces noise pollution from outside

Application • The fan unit for extractor fans is suitable for ventilation of extract air areas with external walls.

Convenience features • The casing, iris shutter and filter holder are made of high quality white plastic. • The iris shutter opens and closes automatically. • The unit's modular structure and plug-in control module allow flexibility when selecting the range of functions for the extract air unit. • The round fan allows rapid installation on the extract air duct. • Subsequent replacement of the control module is possible without needing to uninstall.

Efficiency • The fan unit has a 230 V or 12 V SELV motor.

Installation • Depending on the version selected, the appliances are suitable for flush installation in walls and ceilings. The fan unit is attached to rigid or flexible ducts with an internal diameter of 100 mm; the electrical connection is easily accessible.

| | | LA 70 VE-U | LA 70 VE-U 12 |
|---------------|------|------------|---------------|
| Part number | | 237109 | 237110 |
| Specification | | | |
| Air flow rate | m³/h | 68 | 79 |

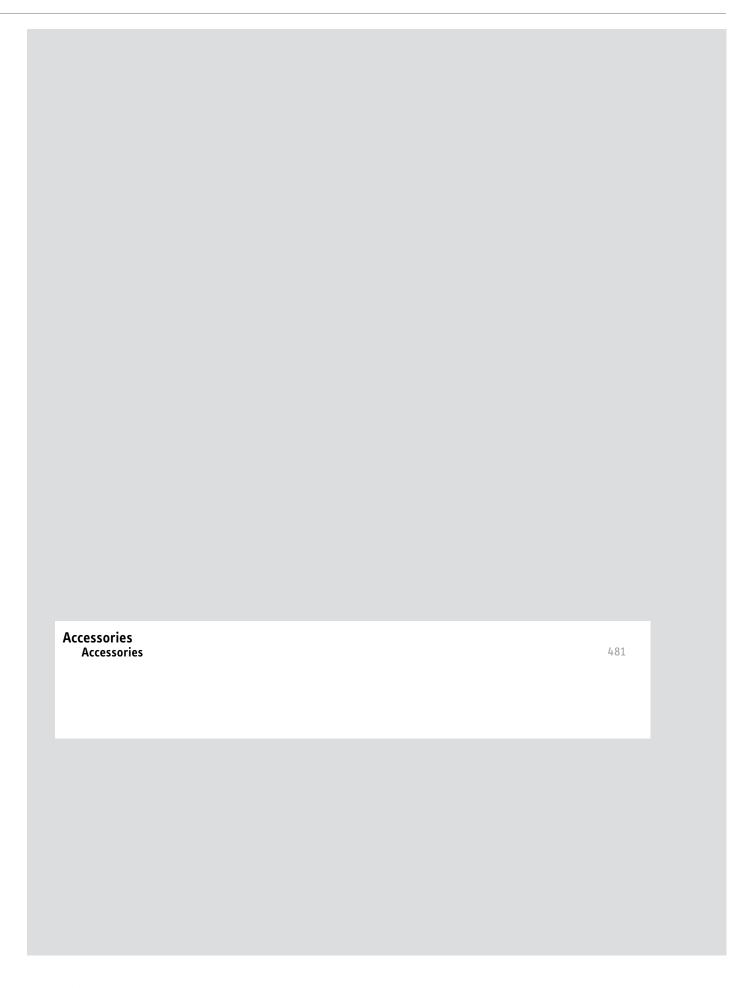
Continue on next page >

Decentralised ventilation in residential buildings Extract air without heat recovery

| | LA 70 VE-U | LA 70 VE-U 12 |
|-------------------------|---|---|
| Required accessories | | |
| Part number | 237103 | |
| Туре | ZLA 70-T | |
| Description | Controller for extract air fan, LA 70 | |
| Part number | 237105 | |
| Туре | ZLA 70-H | |
| Description | Controller for extract air fan, LA 70 | |
| Part number | | 237108 |
| Туре | | ZLA 70-T eco15s |
| Description | | Controller for extract air fan, LA 70 |
| Recommended accessories | | |
| Part number | 237111 | 237111 |
| Type | LA 70 ABG | LA 70 ABG |
| Description | External grille for extract air fan LA 70 | External grille for extract air fan LA 70 |
| Part number | 237773 | 237773 |
| Туре | LA 70 KF | LA 70 KF |
| Description | Condensate trap for LA 70 | Condensate trap for LA 70 |

Ventilation





Accessories for decentralised ventilation in residential buildings

Accessories

CO2 Sensor



The CO2 sensor for demand-dependent, enhanced ventilation mode is supplied with a sensor and threshold switch.

LTM dezent CO2

| | | LTM dezent CO2 |
|-----------------|----|----------------|
| Part number | | 237649 |
| | | |
| Specification | | |
| Width | mm | 80 |
| Height Depth | mm | 100 |
| Depth | mm | 28 |

VLR 70-2 CU



Application • Control set consisting of control unit, power supply unit and programming unit for controlling the ventilation units. • The control unit is equipped with an LED which signals when cleaning and filter replacement must be carried out. These signals are issued according to the operating time. The programming unit is installed in the flush box provided. • The power supply unit is designed for installation in a flush box.

VLR 70-2 CU

| | VLR 70-2 CU |
|-------------|-------------|
| Part number | 239570 |

Accessories for decentralised ventilation in residential buildings

Accessories

VLR 70-4 CU





Application • Control set consisting of control unit, power supply unit and programming unit for controlling the ventilation units. • The control unit is equipped with an LED which signals when cleaning and filter replacement must be carried out. These signals are issued according to the operating time. The programming unit is installed in the flush box provided. • The power supply unit is designed for top hat rail mounting.

VLR 70-4 CU

| | VLR 70-4 CU | VLR 70-8 CU |
|-------------|-------------|-------------|
| Part number | 239571 | 239572 |

TL HDY



Humidity sensor for humidity-controlled operation in 2 different stages.

LTM TL HUMIDITY

| | | LTM TL HUMIDITY |
|----------------------------------|------|-----------------|
| Part number | | 237126 |
| | | |
| Specification | | |
| Version | | Room sensor |
| Measurement accuracy | % rF | 5 |
| Setting range, relative humidity | % | 30-90 |
| Measurement deviation per year | % rF | -1,5 |
| Switching differential | % rF | 6 |
| Width | mm | 76 |
| Height | mm | 76 |
| Depth | mm | 34 |

TL/DEZ MNT



Installation accessories for decentralised ventilation units.

LTM dezent APD BT

| | | LTM dezent APD BT |
|----------------|----|-------------------|
| Part number | | 237644 |
| | | |
| Specification | | |
| Height | mm | 80 |
| Width | mm | 80 |
| Width Depth | mm | 37 |

SP VLR 70 RF COARSE 30 G2-4



Filter for VLR 70

SP VLR 70 RF COARSE 30 G2-4

| | SP VLR 70 RF COARSE 30 G2-4 |
|---------------|-----------------------------|
| Part number | 239562 |
| | |
| Specification | |
| Quantity | 4 |
| Filter class | ISO Coarse > 30 % (G2) |

Accessories for decentralised ventilation in residential buildings

Accessories

SP VLR 70 RF COARSE 60 G4-4



Filter for VLR 70

SP VLR 70 RF COARSE 60 G4-4

| | SP VLR 70 RF COARSE 60 G4-4 |
|---------------|-----------------------------|
| Part number | 239575 |
| | |
| Specification | |
| Filter class | ISO Coarse > 60 % (G4) |

SP VLR 70 RF EPM10 50 M5-4



Filter for VLR 70

SP VLR 70 RF EPM10 50 M5-4

| | SP VLR 70 RF EPM10 50 M5-4 |
|---------------|----------------------------|
| Part number | 239576 |
| | |
| Specification | |
| Filter class | ePM10 ≥ 50 % (M5) |

10

Accessories for decentralised ventilation in residential buildings

Accessories

SP VLR 70 RF EPM1 50 F7-4



Filter for VLR 70

SP VLR 70 RF EPM1 50 F7-4

| | SP VLR 70 RF EPM1 50 F7-4 |
|---------------|---------------------------|
| Part number | 239577 |
| Specification | |
| Filter class | ePM1 ≥ 50 % (F7) |

LA 60 G



Flush mounted casing for installing the fan unit.

LA 60 G-U

| | | LA 60 G-U |
|---------------|----|-----------|
| Part number | | 201448 |
| | | |
| Specification | | |
| Height | mm | 245 |
| Width | mm | 245 |
| Depth | mm | 78 |

Accessories for decentralised ventilation in residential buildings

Accessories

ZLA 60



Control system for connecting to the fan unit. With either humidity control or adjustable start delay and run-on time.

ZLA 60-T

| | ZLA 60-T | ZLA 60-H |
|-------------|----------|----------|
| Part number | 201453 | 201454 |

LWF W 100 VA - 60



External wall outlet for decentralised ventilation units.

LWF W 100 VA - 60

| | LWF W 100 VA - 60 |
|-------------|-------------------|
| Part number | 231104 |



Set with 5 filter mats for extract air fan LA 60.

FMS G3-5 LA 60

| | FMS G3-5 LA 60 |
|---------------|------------------------|
| Part number | 201455 |
| | |
| Specification | |
| Quantity | 5 |
| Filter class | ISO Coarse > 45 % (G3) |
| Application | Ventilation units |

ZLA 70



Control system for connecting to the fan unit.

ZLA 70-T

| | ZLA 70-T | ZLA 70-H | ZLA 70-T eco15s |
|-------------|----------|----------|-----------------|
| Part number | 237103 | 237105 | 237108 |

Accessories for decentralised ventilation in residential buildings

Accessories

LA 70 ABG



Plastic external grille for extract air fan.

LA 70 ABG

| | | LA 70 ABG |
|-----------------|----|-----------|
| Part number | | 237111 |
| Specification | | |
| | mm | 197 |
| Height Depth | mm | 20 |
| Width | mm | 197 |

KF



Condensate trap for LA 70.

LA 70 KF

| | LA 70 KF |
|-------------|----------|
| Part number | 237773 |

| Supply and extract air with heat recovery VRL-C 870 G Premium VRL-C 870 G Trend | 49 <u>1</u> 495 |
|---|--|
| VRL-C 870 D Premium VRL-C 870 D Trend VRL-C 300 G Premium VRL-C 300 G Trend VRL-C 300 D Premium VRL-C 300 D Trend | 499 503 507 511 515 519 |

Supply and extract air with heat recovery

VRL-C 870 G Premium



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > The supply and discharge air grilles can be adjusted to optimise air flow
- Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Very quick and easy installation, even in modernisation projects

VRL-C 870 G Premium

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille outlets on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. · An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories). • The integral PCB enables easy integration of additional functions, such as smoke detectors, intermittent ventilation, minimum ventilation, external OFF and control of a hydraulic reheating coil. • With the integral reheating coil, the supply air temperature can be raised to a comfortable level. • The intelligent preheating control permanently monitors temperature and humidity levels in the appliance, reducing the demand for electrical energy to a minimum and lowering the connected load.

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed at various points on the ceiling of the room. • The supply air grille with adjustable air flow direction is located on the front of the appliance. • The extract air is sucked in through a grille on the right of the narrow side.

Efficiency: The combination of energy saving EC fans, intelligent control and other sensors ensures efficient operation.

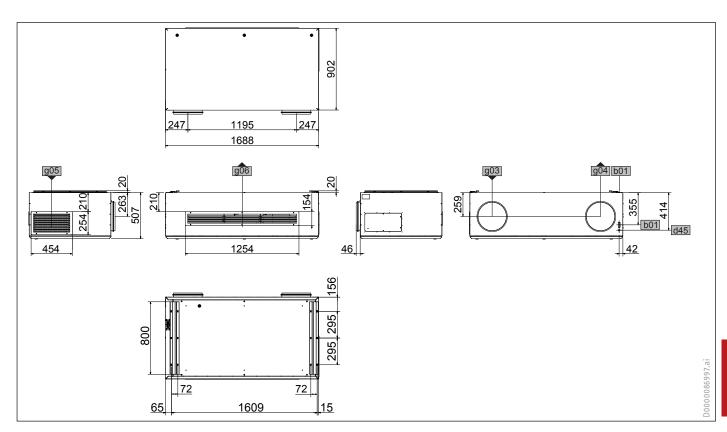
| | | VRL-C 870 G Premium |
|---|----|---------------------|
| Part number | | 204132 |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | <u>H1</u> |
| Filter class, extract air | | ePM 10 > 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 147 |
| Max. power consumption, fan | W | 329 |
| Max. power consumption | W | 1,750 |
| Power consumption, preheating coil | W | 400 |
| Power consumption, reheating coil | W | 1,000 |
| Height | mm | 507 |
| Width | mm | 902 |
| Length | mm | 1,688 |
| Air connection diameter | mm | 315 |
| Weight | kg | 140 |

Continue on next page >

| | | VRL-C 870 G Premium |
|---|----------|---|
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm | 7 |
| Phases | | |
| Frequency | Hz | 50 |
| Fuse protection | A | 16 |
| IP rating | | IP 20 |
| Cable length | m | 3 |
| Air flow rate | m³/h | 300-870 |
| Min. ceiling clearance | mm | 20 |
| Nominal air flow rate | m³/h | 600 |
| Max. efficiency, cross-counter- | % | 92 |
| current heat exchanger | ~°C | |
| Max. ambient conditions, installation room (temperature) | | 40 |
| Min. ambient conditions, in- stallation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | | SFP 1 |
| Required accessories | | |
| Part number | | 204144 |
| Туре | | ZVRL-C CU |
| Description | | Controller for decentralised ventilation unit |
| Part number | | 237629 |
| Туре | | LTM dezent BA VA 410 B |
| Description | | External cover |
| Part number | | 237633 |
| Туре | | LTM dezent BA VA 410 W |
| Description | | External cover |
| Part number | | 237672 |
| Туре | | LTM dezent 600/800 Z-PSS |
| Description | | Mounting system for decentralised ventilation unit |
| Part number | | 237674 |
| Туре | | LTM dezent RWA |
| Description | | Mounting system for decentralised ventilation unit |
| Recommended accessories | | |
| Part number | | 237126 |
| Type | | LTM TL HUMIDITY |
| Description | | Humidity sensor |
| Part number | | 237646 |
| Type | | LTM dezent BACnet Web - Ethernet |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | anterrace card for connecting decentralised ventuation units to a building management system 237647 |
| Type | | LTM dezent LON IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237648 |
| Type | | LTM dezent Modbus RS 485 IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | interface card for connecting decentralised ventilation units to a building management system 237649 |
| | | LTM dezent CO2 |
| Type | | |
| Description Part number | | CO2 sensor |
| Part number | | 237658 |
| Type | | LTM dezent VOC |
| Description | | VOC sensor for demand-controlled management of decentralised ventilation units |

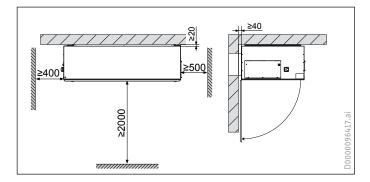
| | VRL-C 870 G Premium |
|-------------|--|
| Maintenance | |
| Part number | 237665 |
| Туре | LTM dezent FMS F7-2 |
| Description | Filter mat set for decentralised ventilation unit. |
| Part number | 237668 |
| Туре | LTM dezent FMS F9-1 |
| Description | Filter mat set for decentralised ventilation unit. |

Availability on request



| | | VRL-C 870 G Premium |
|-----------------------------------|----|---------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 315 |
| g04 Exhaust air Diameter | mm | 315 |
| g05 Extract air | | |
| g05 Extract air g06 Supply air | | |

Minimum clearance diagram



Supply and extract air with heat recovery

VRL-C 870 G Trend



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > The supply and discharge air grilles can be adjusted to optimise air flow
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Very quick and easy installation, even in modernisation projects

VRL-C 870 G Trend

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille outlets on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. The temperature-dependent bypass automatically circumvents heat recovery when necessary. All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The system is equipped with motorised outdoor and exhaust air dampers to prevent uncontrolled air flow during idle time. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances can be connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories).

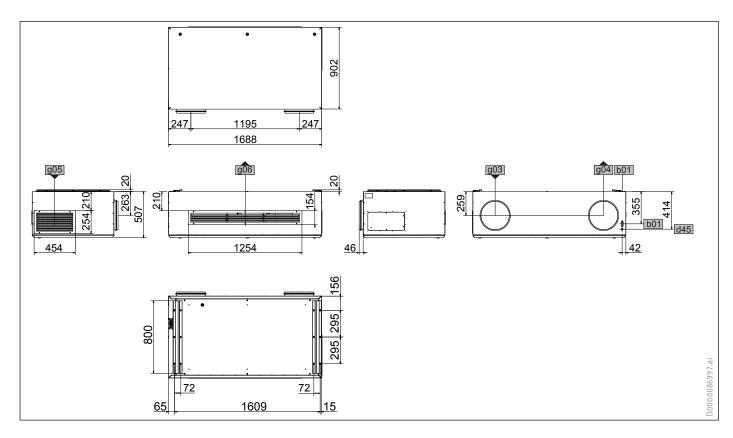
Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. • The direction of the air flow is determined by the adjustable supply air grille on the front of the appliance. • The extract air is sucked in through the extract air grille on the right of the narrow side.

Efficiency • The combination of energy saving EC fans, intelligent control and other sensors ensures efficient operation.

| | | VRL-C 870 G Trend |
|---|----|--------------------|
| Part number | | 20413: |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 > 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 147 |
| Max. power consumption, fan | W | 329 |
| Max. power consumption | W | 1,850 |
| Power consumption, preheating coil | W | 1,500 |
| Height | mm | 507 |
| Width | mm | 902 |
| Length | mm | 1,688 |
| Air connection diameter | mm | 315 |
| Weight | kg | 140 |
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm | 7 |
| Phases | | 1/N/PE |
| Frequency | Hz | 50 |

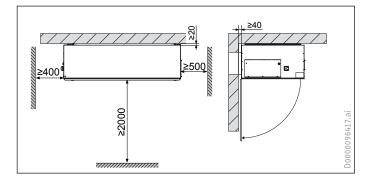
| | | VRL-C 870 G Trend |
|---|------|---|
| Fuse protection | Α | 16 |
| IP rating | | IP 20 |
| Cable length | m | 3 |
| Air flow rate | m³/h | 300-870 |
| Min. ceiling clearance | mm | 20 |
| Nominal air flow rate | m³/h | 610 |
| Max. efficiency, cross-counter- | % | 92 |
| current heat exchanger | 70 | , |
| Max. ambient conditions, installation room (temperature) | °C | 40 |
| Min. ambient conditions, in- stallation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | | SFP 1 |
| Required accessories | | |
| Part number | | 204144 |
| | | ZVRL-C CU |
| Type | | Controller for decentralised ventilation unit |
| Description Part number | | |
| | | 237629 |
| Type Description | | LTM dezent BA VA 410 B |
| Description | | External cover |
| Part number | | 237633 |
| Туре | | LTM dezent BA VA 410 W |
| Description | | |
| n | | External cover |
| Part number | | 237672 |
| Туре | | LTM dezent 600/800 Z-PSS |
| Description | | Mounting system for decentralised ventilation unit |
| Part number | | 237674 |
| Туре | | LTM dezent RWA |
| Description | | Mounting system for decentralised ventilation unit |
| Recommended accessories | | |
| Part number | | 237126 |
| Type | | LTM TL HUMIDITY |
| Description | | Humidity sensor |
| Part number | | 237646 |
| Туре | | LTM dezent BACnet Web - Ethernet |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237647 |
| Type | | LTM dezent LON IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237648 |
| Туре | | LTM dezent Modbus RS 485 IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237649 |
| Туре | | LTM dezent CO2 |
| Description | | CO2 sensor |
| Part number | | 237658 |
| Туре | | LTM dezent VOC |
| Description | | VOC sensor for demand-controlled management of decentralised ventilation units |
| Maintenance | | |
| Part number | | 237665 |
| Type | | LTM dezent FMS F7-2 |
| Description | | Filter mat set for decentralised ventilation unit. |
| Part number | | 237668 |
| | | LTM dezent FMS F9-1 |
| Type | | |
| Description | | Filter mat set for decentralised ventilation unit. |

Availability on request



| | | VRL-C 870 G Trend |
|-----------------------------------|----|-------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 315 |
| g04 Exhaust air Diameter | mm | 315 |
| g05 Extract air | | |
| g05 Extract air g06 Supply air | | |

Minimum clearance diagram



Supply and extract air with heat recovery

VRL-C 870 D Premium



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- > Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Connector for air duct
- > Very quick and easy installation, even in modernisation projects

VRL-C 870 D Premium

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air.
• The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. • Air ducting is required for routing the outdoor and exhaust air. Extract air and supply air can be channelled to precise points in the room or building.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. · An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories). • The integral PCB allows easy integration of further functions, such as smoke detectors, intermittent ventilation, minimum ventilation, external OFF and control of a hydraulic reheating coil. • With the integral reheating coil, the supply air temperature can be raised to a comfortable level. • Thanks to permanent monitoring of temperature and humidity levels by the intelligent preheating control, demand for electrical energy is reduced to a minimum and the connected load lowered.

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed at various points on the ceiling of the room. • The supply air grille on the front of the appliance can be adjusted to change the direction of the air flow. • The extract air is sucked in through the extract air grille on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

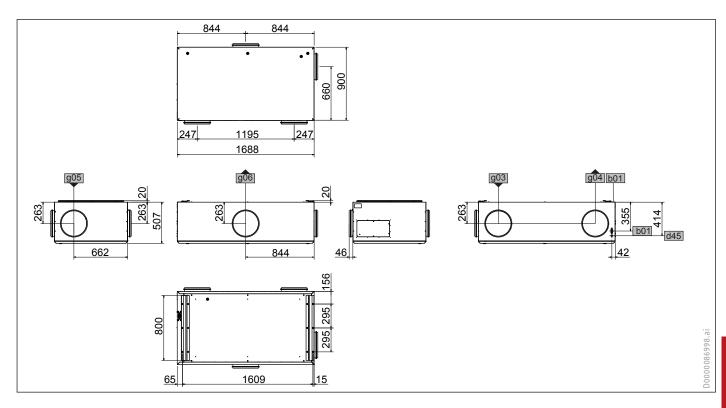
| | | VRL-C 870 D Premium |
|---|----|---------------------|
| Part number | | 204134 |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 = 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 147 |
| Max. power consumption, fan | W | 329 |
| Max. power consumption | W | 1,750 |
| Power consumption, preheating coil | W | 400 |
| Power consumption, reheating coil | W | 1,000 |
| Height | mm | 507 |
| Width | mm | 902 |
| Length | mm | 1,688 |
| Air connection diameter | mm | 315 |
| Weight | kg | 140 |

Continue on next page >

| | | VRL-C 870 D Premium |
|--|------|---|
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm — | 7 |
| Phases | | 1/N/PE |
| Frequency | Hz | 50 |
| Fuse protection | Α | 16 |
| IP rating | | IP 20 |
| Cable length | | 3 |
| Air flow rate | m³/h | 300-870 |
| Min. ceiling clearance | mm | 20 |
| Nominal air flow rate | m³/h | 610 |
| Max. efficiency, cross-counter- | % | 92 |
| current heat exchanger | | |
| Max. ambient conditions, installation room (temperature) | °C | 40 |
| Min. ambient conditions, installation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | | SFP 1 |
| Required accessories | | |
| Part number | | 204144 |
| Туре | | ZVRL-C CU |
| Description | | Controller for decentralised ventilation unit |
| Part number | | 237629 |
| Туре | | LTM dezent BA VA 410 B |
| Description | | External cover |
| Part number | | 237633 |
| Туре | | LTM dezent BA VA 410 W |
| Description | | External cover |
| Part number | | 237672 |
| Туре | | LTM dezent 600/800 Z-PSS |
| Description | | Mounting system for decentralised ventilation unit |
| Part number | | 237674 |
| Туре | | LTM dezent RWA |
| Description | | Mounting system for decentralised ventilation unit |
| Recommended accessories | | |
| Part number | | 237126 |
| Type | | LTM TL HUMIDITY |
| Description | | Humidity sensor |
| Part number | | 237646 |
| Type | | LTM dezent BACnet Web - Ethernet |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237647 |
| Type | | LTM dezent LON IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237648 |
| Type | | LTM dezent Modbus RS 485 IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237649 |
| Type | | LTM dezent CO2 |
| Description | | CO2 sensor |
| Part number | | 237658 |
| Type | | LTM dezent VOC |
| Description | | VOC sensor for demand-controlled management of decentralised ventilation units |
| | | To a second not demand conditioned management of decembrance ventiliation units |

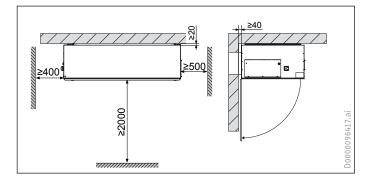
| | VRL-C 870 D Premium |
|-------------|--|
| Maintenance | |
| Part number | 237665 |
| Туре | LTM dezent FMS F7-2 |
| Description | Filter mat set for decentralised ventilation unit. |
| Part number | 237668 |
| Type | LTM dezent FMS F9-1 |
| Description | Filter mat set for decentralised ventilation unit. |

Availability on request



| | | VRL-C 870 D Premium |
|-----------------------------|----|---------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 315 |
| g04 Exhaust air Diameter | mm | 315 |
| g05 Extract air Diameter | mm | 315 |
| g06 Supply air Diameter | mm | 315 |

Minimum clearance diagram



Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery

VRL-C 870 D Trend



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- > Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Connector for air duct
- > Very quick and easy installation, even in modernisation projects

VRL-C 870 D Trend

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille outlets on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories).

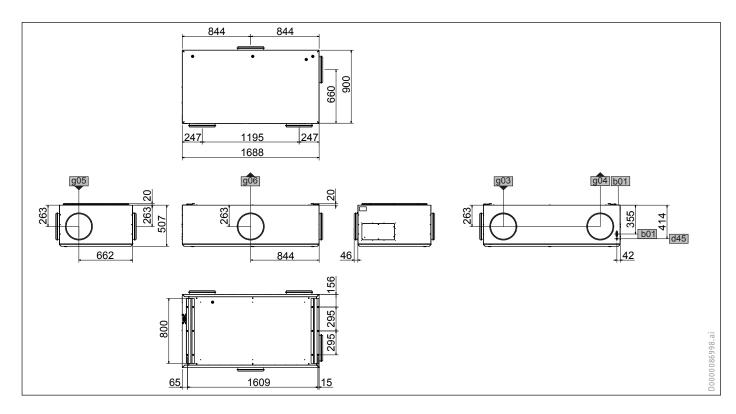
Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. The supply air connector is located on the front of the appliance. Extract air is routed via the extract air connector on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

| | | VRL-C 870 D Trend |
|---|----|--------------------|
| Part number | | 20413: |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 = 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 147 |
| Max. power consumption, fan | W | 329 |
| Max. power consumption | W | 1,850 |
| Power consumption, preheating coil | W | 1,500 |
| Height | mm | 507 |
| Width | mm | 902 |
| Length | mm | 1,688 |
| Air connection diameter | mm | 315 |
| Weight | kg | 140 |
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm | |
| Phases | | 1/N/PE |
| Frequency | Hz | 50 |

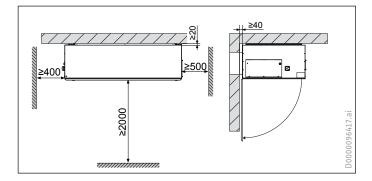
| | VRL-C 870 D Tr | rend |
|---|--|--------|
| Fuse protection | A | 16 |
| IP rating | | IP 20 |
| Cable length | m | 3 |
| Air flow rate | | 0-870 |
| Min. ceiling clearance | nm | 20 |
| Nominal air flow rate | 3/h | 610 |
| Max. efficiency, cross-counter- | % | 92 |
| current heat exchanger | | |
| Max. ambient conditions, installation room (temperature) | °C | 40 |
| Min. ambient conditions, in- stallation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | S | SFP 1 |
| Required accessories | | |
| Part number | 20 | 04144 |
| Type | ZVRL | |
| Description | Controller for decentralised ventilation | |
| Part number | | 37629 |
| Type | LTM dezent BA VA 4 | |
| Description | External of | |
| Part number | | 37633 |
| Type | LTM dezent BA VA 4 | |
| , . | LTM dezent ba va 4 | TO AA |
| Description | External o | cover |
| Part number | 23 | 37672 |
| Туре | LTM dezent 600/800 Z | Z-PSS |
| Description | Mounting system for decentralised ventilation | ı unit |
| Part number | 23 | 37674 |
| Type | LTM dezent | RWA |
| Description | Mounting system for decentralised ventilation | ı unit |
| Recommended accessories | | |
| Part number | 23 | 37126 |
| Type | LTM TL HUMI | IDITY |
| Description | Humidity se | ensor |
| Part number | 23 | 37646 |
| Туре | LTM dezent BACnet Web - Ethe | ernet |
| Description | Interface card for connecting decentralised ventilation units to a building management sy | /stem |
| Part number | | 37647 |
| Туре | LTM dezent LC | ON IF |
| Description | Interface card for connecting decentralised ventilation units to a building management sys | /stem |
| Part number | | 37648 |
| Туре | LTM dezent Modbus RS 4 | +85 IF |
| Description | Interface card for connecting decentralised ventilation units to a building management sys | |
| Part number | | 37649 |
| Туре | LTM dezent | |
| Description | CO2 se | |
| Part number | | 37658 |
| Туре | LTM dezent | |
| Description | VOC sensor for demand-controlled management of decentralised ventilation of | |
| Maintenance | | |
| Part number | 23 | 37665 |
| | LTM dezent FMS | |
| | | |
| Туре | Filter mat set for decentralised ventilation | unit |
| Type Description | Filter mat set for decentralised ventilation | |
| Type Description Part number Type | | 37668 |

Availability on request



| | | VRL-C 870 D Trend |
|-----------------------------|-----|-------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 315 |
| g04 Exhaust air Diameter | mm | 315 |
| g05 Extract air Diameter | mm | 315 |
| g06 Supply air Diameter | mm_ | 315 |

Minimum clearance diagram



Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery

VRL-C 300 G Premium



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > The supply and discharge air grilles can be adjusted to optimise air flow
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Very quick and easy installation, even in modernisation projects

VRL-C 300 G Premium

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille outlets on the appliance.

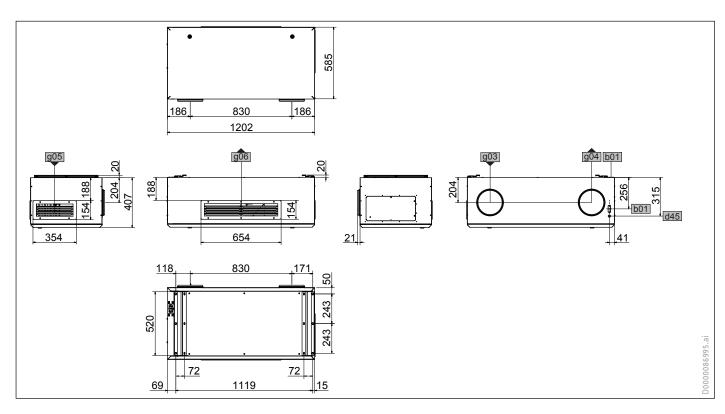
Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. The temperature-dependent bypass automatically circumvents heat recovery when necessary. All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories).

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. • The supply air grille with adjustable air flow direction is located on the front of the appliance. • The extract air is sucked in through a grille on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

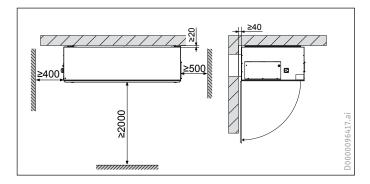
| | | VRL-C 300 G Premium |
|---|----|---------------------|
| Part number | | 204140 |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 > 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 67 |
| Max. power consumption, fan | W | 137 |
| Max. power consumption | W | 1,150 |
| Power consumption, preheating coil | W | 600 |
| Power consumption, reheating coil | W | 400 |
| Height | mm | 407 |
| Width | mm | 585 |
| Length | mm | 1,202 |
| Air connection diameter | mm | 200 |
| Weight | kg | 100 |
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm | 7 |
| Phases | | 1/N/PE |

| | VRL-C 300 G P | remium |
|---|--|---------------------------|
| Frequency | Hz | 50 |
| Fuse protection | A | 16 |
| IP rating | | IP 20 |
| Cable length | m | 3 |
| Air flow rate | n ³ /h | 100-300 |
| Min. ceiling clearance | mm | 20 |
| Nominal air flow rate | n ³ /h | 210 |
| Max. efficiency, cross-counter- current heat exchanger | % | 92 |
| Max. ambient conditions, in- stallation room (temperature) | °C | 40 |
| Min. ambient conditions, in- stallation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | | SFP 2 |
| Required accessories | | |
| Part number | | 204144 |
| Туре | 7V | 'RL-C CU |
| Description | Controller for decentralised ventilat | |
| Part number | Controller for decentralised vertical | 237627 |
| Туре | LTM dezent 300 BA \ | |
| Description | | |
| Part number | <u>Extern</u> | al cover 237628 |
| | LTM dezent 300 BA V | |
| Type Description | | |
| Recommended accessories | Extern | ial cover |
| Part number | | 237126 |
| | LTM TL HI | |
| Type | | |
| Description | Humidit | 237646 |
| Part number | THE COLCUMBER | |
| Туре | LTM dezent BACnet Web - F | |
| Description | Interface card for connecting decentralised ventilation units to a building management | |
| Part number | . The state of the | 237647 |
| Туре | LTM dezen | |
| Description | Interface card for connecting decentralised ventilation units to a building management | |
| Part number | , <u></u> | 237648 |
| Туре | LTM dezent Modbus R | |
| Description | Interface card for connecting decentralised ventilation units to a building management | |
| Part number | | 237649 |
| Туре | | zent CO2 |
| Description | CO | 2 sensor |
| Part number | | 237658 |
| Туре | LTM dez | |
| Description | VOC sensor for demand-controlled management of decentralised ventilation | on units |
| Maintenance | | |
| Part number | | 237652 |
| T | LTM dezent 300 FM | S M5-10 |
| Type | ETH dezent 500 Th | |



| | | VRL-C 300 G Premium |
|-----------------------------------|----|---------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 200 |
| g04 Exhaust air Diameter | mm | 200 |
| g05 Extract air g06 Supply air | | |
| g06 Supply air | | |

Minimum clearance diagram



Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery

VRL-C 300 G Trend



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > The supply and discharge air grilles can be adjusted to optimise air flow
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- > Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Very quick and easy installation, even in modernisation projects

VRL-C 300 G Trend

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air. • The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract and supply air is routed directly through the grille outlets on the appliance.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. • An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories).

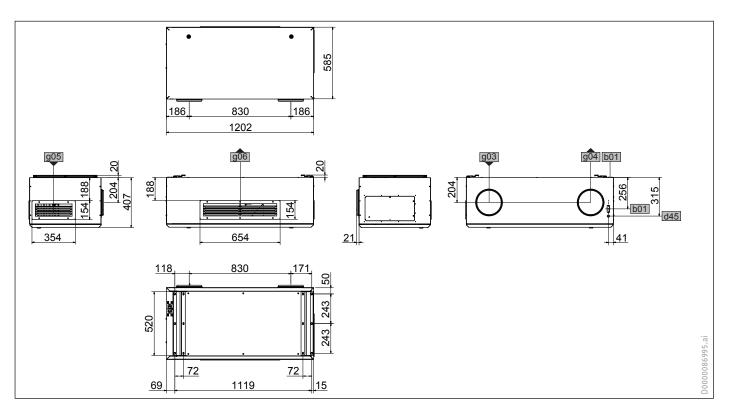
Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. The supply air grille on the front of the appliance can be adjusted to change the direction of the air flow. The extract air is sucked in through the extract air grille on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

| | | VRL-C 300 G Trend |
|---|----|--------------------|
| | | VKL-C 300 G Irena |
| Part number | | 204141 |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 > 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 67 |
| Max. power consumption, fan | W | 137 |
| Max. power consumption | W | 760 |
| Power consumption, preheating coil | W | 600 |
| Height | mm | 407 |
| Width | mm | 585 |
| Length | mm | 1,202 |
| Air connection diameter | mm | 200 |
| Weight | kg | 100 |
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm | |
| Phases | | 1/N/PE |
| Frequency | Hz | 50 |

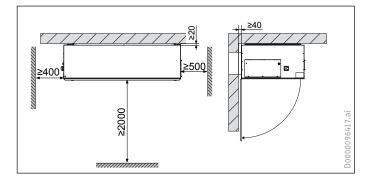
| | | VRL-C 300 G Trend |
|---|------|--|
| Fuse protection | Α | 16 |
| IP rating | | IP 20 |
| Cable length | m | 3 |
| Air flow rate | m³/h | 100-300 |
| Min. ceiling clearance | mm | 20 |
| Nominal air flow rate | m³/h | 210 |
| Max. efficiency, cross-counter- current heat exchanger | % | 92 |
| Max. ambient conditions, installation room (temperature) | °C | 40 |
| Min. ambient conditions, installation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | | SFP 2 |
| Required accessories | | |
| Part number | | 204144 |
| Туре | | ZVRL-C CU |
| Description | | Controller for decentralised ventilation unit |
| Part number | | 237627 |
| Туре | | LTM dezent 300 BA VA 320 B |
| Description | | External cover |
| Part number | | 237628 |
| Туре | | LTM dezent 300 BA VA 320 W |
| Description | | External cover |
| Recommended accessories | | External core |
| | | |
| Part number | | 237126 |
| Type | | LTM TL HUMIDITY |
| Description | | Humidity sensor |
| Part number | | 237646 |
| Type | | LTM dezent BACnet Web - Ethernet |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237647 |
| Type | | LTM dezent LON IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237648 |
| Type | | LTM dezent Modbus RS 485 IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237649 |
| Type | | LTM dezent CO2 |
| Description | | CO2 sensor |
| Part number | | 237658 |
| Type Description | | LTM dezent VOC VOC sensor for demand-controlled management of decentralised ventilation units |
| Maintenance | | |
| | | 227672 |
| Part number | | 237652 |
| Type | | LTM dezent 300 FMS M5-10 |
| Description | | Filter mat set for decentralised ventilation unit. |

Availability on request



| | | VRL-C 300 G Tren |
|-----------------------------------|----|------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 2 |
| g04 Exhaust air Diameter | mm | 2 |
| g05 Extract air | | |
| g05 Extract air g06 Supply air | | |

Minimum clearance diagram



Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery

VRL-C 300 D Premium



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- > Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Connector for air duct
- > Very quick and easy installation, even in modernisation projects

VRL-C 300 D Premium

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air.
• The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. • Air ducting is required for routing the outdoor and exhaust air. Extract air and supply air can be channelled to precise points in the room or building.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain. · An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories). • The integral PCB allows easy integration of further functions, such as smoke detectors, intermittent ventilation, minimum ventilation, external OFF and control of a hydraulic reheating coil. • With the integral reheating coil, the supply air temperature can be raised to a comfortable level. • Thanks to permanent monitoring of temperature and humidity levels by the intelligent preheating control, demand for electrical energy is reduced to a minimum and the connected load lowered.

Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. • The supply air connector is located on the front of the appliance. Extract air is routed via the extract air connector on the right of the narrow side

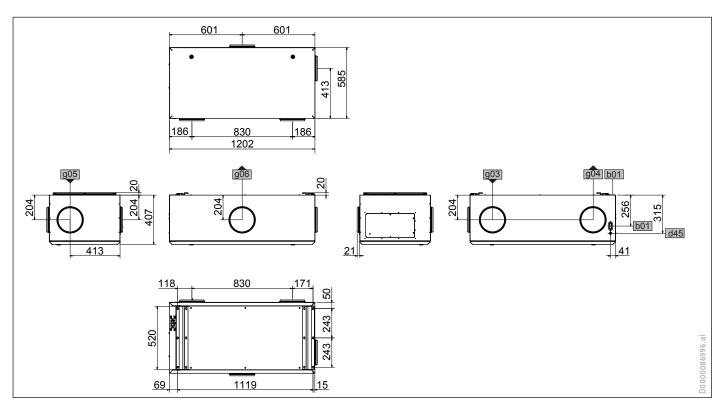
Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

| | | VRL-C 300 D Premium |
|---|----|---------------------|
| Part number | | 204142 |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 = 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 67 |
| Max. power consumption, fan | W | 137 |
| Max. power consumption | W | 1,150 |
| Power consumption, preheating coil | W | 600 |
| Power consumption, reheating coil | W | 400 |
| Height | mm | 407 |
| Width | mm | 585 |
| Length | mm | 1,202 |
| Air connection diameter | mm | 200 |
| Weight | kg | 100 |

Continue on next page >

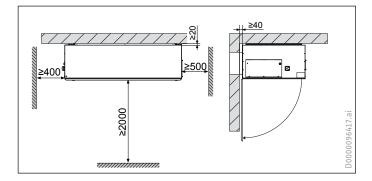
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|--|--------------------------------|--|
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| Phases Frequency | • | |
| Frequency Frequency Fuse protection A Parting Cable length Mn. Ceiling clearance Mn/h Mn. Ceiling clearance Mn. Nominal air flow rate Max. efficiency, cross-counter- current heat exchanger Max. efficiency, cross-counter- current heat exchanger Max. ambient conditions, in- stallation room (temperature) Sept classification to Rt 13779 Required accessories Part number Type Description Controller for decentralised eventilation Part number Type Description Extern Recommended accessories Part number Type Description De | | 1/N |
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| Description VOC sensor for demand-controlled management of decentralised ventilation | | 237 |
| | | LTM dezent \ |
| Maintenance | Description | VOC sensor for demand-controlled management of decentralised ventilation u |
| | Maintenance | |
| Part number | Part number | 237 |
| Type LTM dezent 300 FM: | Туре | LTM dezent 300 FMS M5 |
| | | Filter mat set for decentralised ventilation u |

Availability on request



| | | VRL-C 300 D Premium |
|-----------------------------|----|---------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 200 |
| g04 Exhaust air Diameter | mm | 200 |
| g05 Extract air Diameter | mm | 200 |
| g06 Supply air Diameter | mm | 200 |

Minimum clearance diagram



Decentralised ventilation in non-residential buildings

Supply and extract air with heat recovery

VRL-C 300 D Trend



Benefits

- > High degree of heat recovery due to aluminium cross-countercurrent heat exchanger
- > Easily installed in the ceiling thanks to the matching rail system
- > Easy maintenance as the casing cover pivots open
- > Flexible installation, with choice of flush or surface installation on ceiling
- > Decentralised ventilation unit with heat recovery for schools, nurseries, seminar, therapy and club facilities, offices, community halls
-) Integral preheater coil
- > Connector for air duct
- > Very quick and easy installation, even in modernisation projects

VRL-C 300 D Trend

Application • Typical applications include controlled ventilation of larger spaces such as class rooms, conference rooms, sales showrooms, nurseries, restaurants and other function rooms. • The automated room ventilation improves the quality of the indoor air and reduces the level of CO2, aerosols, spores and dirt, thanks to the integral filters and heat recovery. At the same time, the high rate of air exchange reduces smells, bacteria and viruses in the indoor air.
• The appliances are optimised for low-noise operation and are designed for decentralised usage directly at the point of use. Air ducting is required for routing the outdoor and exhaust air. Extract air and supply air can be channelled to precise points in the room or building.

Convenience features • Operating modes, programs and parameters can be adjusted simply and intuitively on the programming unit. The appliances are designed for straightforward and rapid servicing and are easy to maintain.
• An additional sensor (accessory) measures the CO2 concentration in the indoor air and provides fully automatic control of the appliance's ventilation output until the CO2 falls below the set level again. • With the aid of a movement sensor (accessory), the appliance can switch between basic ventilation and a higher level. • The temperature-dependent bypass automatically circumvents heat recovery when necessary. • All the appliances are fitted with an electric preheating coil and can be used even when outdoor temperatures are very low with balanced supply and extract air flow rates. • The equipment is fitted with motorised outdoor/exhaust air flaps to prevent uncontrolled flow of air in standby. • In the case of fire or loss of power, the spring-loaded outdoor/exhaust air flaps seal the airways, which helps reduce the spread of fire or smoke through the building. • In larger buildings, up to 20 appliances can be linked and controlled using a single programming unit. The appliances are connected to a higher-ranking building management system via BacNet, Modbus or LON interface (accessories).

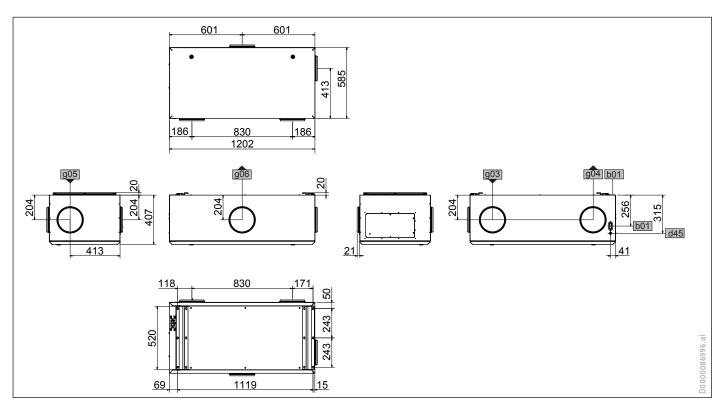
Installation • The appliance is designed for ceiling installation and can be built into a suspended ceiling. It can be installed in different places on the ceiling. The supply air connector is located on the front of the appliance. Extract air is routed via the extract air connector on the right of the narrow side.

Efficiency • Energy saving EC fans, in conjunction with the control unit and other sensors, ensure efficient operation.

| | | VRL-C 300 D Trend |
|---|----|--------------------|
| Part number | | 20414: |
| | | |
| Specification | | |
| Heat recovery level up to | % | 92 |
| Heat recovery level, nominal flow rate DIBt | % | 80 |
| Heat recovery class to EN 13053 | | H1 |
| Filter class, extract air | | ePM 10 = 50 % (M5) |
| Filter class, supply air | | ePM1 ≥ 50 % (F7) |
| Rated power consumption, fan | W | 67 |
| Max. power consumption, fan | W | 137 |
| Max. power consumption | W | 760 |
| Power consumption, preheating coil | W | 600 |
| Height | mm | 407 |
| Width | mm | 585 |
| Length | mm | 1,202 |
| Air connection diameter | mm | 200 |
| Weight | kg | 100 |
| Condensate hose length | m | 3 |
| Condensate hose diameter | mm | 7 |
| Phases | | 1/N/PE |
| Frequency | Hz | 50 |

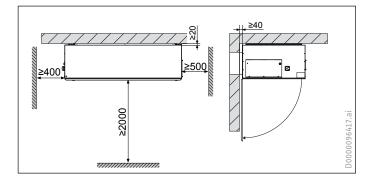
| | | VRL-C 300 D Trend |
|---|------|---|
| Fuse protection | Α | 16 |
| IP rating | | IP 20 |
| Cable length | m | 3 |
| Air flow rate | m³/h | 100-300 |
| Min. ceiling clearance | mm | 20 |
| Nominal air flow rate | m³/h | 210 |
| Max. efficiency, cross-counter- current heat exchanger | % | 92 |
| Max. ambient conditions, installation room (temperature) | °C | 40 |
| Min. ambient conditions, installation room (temperature) | °C | 12 |
| SFP classification to EN 13779 | | SFP 2 |
| Required accessories | | |
| Part number | | 204144 |
| Type | | ZVRL-C CU |
| Description | | Controller for decentralised ventilation unit |
| Part number | | 237627 |
| Туре | | LTM dezent 300 BA VA 320 B |
| Description | | External cover |
| Part number | | 237628 |
| Type | | LTM dezent 300 BA VA 320 W |
| Description | | External cover |
| Recommended accessories | | External cover |
| | | |
| Part number | | 237126 |
| Type | | LTM TL HUMIDITY |
| Description | | Humidity sensor |
| Part number | | 237646 |
| Type | | LTM dezent BACnet Web - Ethernet |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237647 |
| Type | | LTM dezent LON IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237648 |
| Type | | LTM dezent Modbus RS 485 IF |
| Description | | Interface card for connecting decentralised ventilation units to a building management system |
| Part number | | 237649 |
| Type | | LTM dezent CO2 |
| Description | | CO2 sensor |
| Part number | | 237658 |
| Type | | LTM dezent VOC |
| Description | | VOC sensor for demand-controlled management of decentralised ventilation units |
| Maintenance | | |
| Part number | | 237652 |
| Type | | LTM dezent 300 FMS M5-10 |
| Description | | Filter mat set for decentralised ventilation unit. |

Availability on request

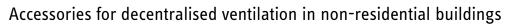


| | | VRL-C 300 D Trend |
|-----------------------------|----|-------------------|
| b01 Entry electrical cables | | |
| d45 Condensate drain | | |
| g03 Outdoor air Diameter | mm | 200 |
| g04 Exhaust air Diameter | mm | 200 |
| g05 Extract air Diameter | mm | 200 |
| g06 Supply air Diameter | mm | 200 |

Minimum clearance diagram



Ventilation





Accessories for decentralised ventilation in non-residential buildings

Accessories

DEZ MG



Mounting system for decentralised ventilation unit.

LTM dezent ULB-90

| | | LTM dezent ULB-90 | LTM dezent 600/800 Z-PSS | LTM dezent C-PSS | LTM dezent RWA |
|---------------|----|-------------------|--------------------------|------------------|----------------|
| Part number | | 237634 | 237672 | 237673 | 237674 |
| Specification | | | | | |
| Width | mm | 600 | 56 | 26 | 477 |
| Length | m | 1,688 | 0,8 | 1 | 1,688 |

ABL SL



Benefits

> Weather-resistant stainless steel external cover

External cover for wall terminal on the façade. Mounting frame with integral drip edge and bird guard for installation on the façade. Sealing of plaster with sealing tape. Draining condensate safely in front of the plaster.

LTM dezent 300 BA VA 320 B

| | | LTM dezent 300 BA VA 320 B | LTM dezent 300 BA VA 320 W | LTM dezent BA VA 410 B | LTM dezent BA VA 410 W |
|---------------|----|-------------------------------|-------------------------------|------------------------|------------------------|
| Part number | | 237627 | 237628 | 237629 | 237633 |
| Specification | | | | | |
| Height | mm | 327 | 327 | 422 | 422 |
| Depth | mm | 112 | 112 | 215 | 215 |
| Width | mm | 324 | 324 | 423 | 423 |
| Colour | | other | white | other | white |

Accessories for decentralised ventilation in non-residential buildings

Accessories

ZVRL-C CU



Application • Digital control unit for up to 20 units. The programming unit is mounted on the wall and has an integral LCD which displays all the relevant operating modes. • Intuitive operation and parametrisation of the system with six keys. This allows continuously variable control of air flow rates and supply air temperature. • Using the bypass function, night-time cooling in the summer can be set manually or to automatic mode. • The integral time switch automatically switches between summertime and wintertime. • In addition to the monitoring, status and alarm functions (filter change warning signal), demand-dependent operation can be achieved with the aid of CO2 and VOC sensors.

ZVRL-C CU

| | | ZVRL-C CU |
|-----------------|----|-----------|
| Part number | | 204144 |
| | | |
| Specification | | |
| Colour | | white |
| Width | mm | 156 |
| Height Depth | mm | 82 |
| Depth | mm | 31 |

Availability on request

DEZ IF



Interface cards for connecting decentralised ventilation units to a building management system.

LTM dezent BACnet Web - Ethernet

| | | LTM dezent BACnet Web - Ethernet | LTM dezent LON IF | LTM dezent Modbus RS 485 IF |
|---------------|----|----------------------------------|-------------------|-----------------------------|
| Part number | | 237646 | 237647 | 237648 |
| Specification | | | | |
| Width | mm | 100 | 100 | 100 |
| Height | mm | 50 | 50 | 50 |
| Depth | mm | 5 | 5 | 5 |

Accessories

CO2 Sensor



The CO2 sensor for demand-dependent, enhanced ventilation mode is supplied with a sensor and threshold switch.

LTM dezent CO2

| | | LTM dezent CO2 |
|-----------------|----|----------------|
| Part number | | 237649 |
| | | |
| Specification | | |
| Width | mm | 80 |
| Height | mm | 100 |
| Height Depth | mm | 28 |

VOC



VOC sensor for demand-controlled management of decentralised ventilation units.

LTM dezent VOC

| | | LTM dezent VOC |
|--------------------------|----|----------------|
| Part number | | 237658 |
| | | |
| Specification | | |
| Width | mm | 100 |
| Width Height Depth | mm | 100 |
| Depth | mm | 28 |

Accessories for decentralised ventilation in non-residential buildings

Accessories

FMS dez SL



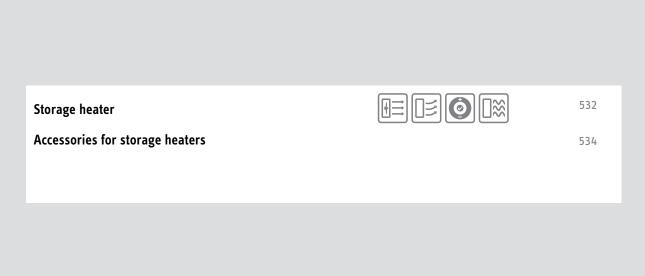
Filter set with particularly low pressure drop, yet high grade air filtration.

LTM dezent 300 FMS M5-10

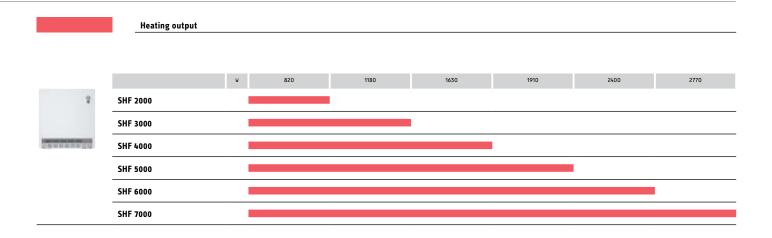
| | LTM dezent 300 FMS M5-10 | LTM dezent FMS F7-2 | LTM dezent FMS F9-1 |
|---------------|--------------------------|---------------------|---------------------|
| | LIM dezent 500 FM3 M3-10 | LIM dezent FM3 F7-2 | LIM dezent FM3 F9-1 |
| Part number | 237652 | 237665 | 237668 |
| | | | |
| Specification | | | |
| Quantity | 10 | 2 | 1 |
| Filter class | ePM10 ≥ 50 % (M5) | ePM1 ≥ 50 % (F7) | ePM1 ≥ 80 % (F9) |
| Application | Ventilation units | Ventilation units | Ventilation units |

Room heating

Storage heater



Storage heater Application areas



Storage heater Storage heater



SHF 2000-7000



SHF 2000

Benefits

- > For convenient, energy saving operation, C-Plus technology is used as an intelligent automatic charging system.
- > Enable time for charging can be set directly on the appliance
-) Integral RT controller with weekly timer and open window detection
-) In timer mode, the self-learning control unit calculates the preheating time automatically
- > Increased safety, as the high limit safety cut-out does not reset automatically
- The connected load can be reduced with a 3-phase connection
- > Quiet crossflow fan
-) As standard with fluff filter

Application • The compact storage heater is installed on the floor and is suitable as a standalone heater for apartments or commercial spaces. • The appliance is used with off-peak economy tariff models with blocking times.

Convenience features • The integral electronic charge controller with C-Plus technology charges the storage heater fully automatically and according to demand, without additional control units. • The required room temperature and the enable time for charging can be easily adjusted on the display. • In addition to the programmable weekly timer, there are two preset and one individually programmable time programs available. • In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • In addition to the comfort temperature, it is also possible to program the setback temperature. • If required, users are able to activate a function on the appliance which detects when windows are open; this avoids unnecessary energy loss. • With 3-phase connection, the connected load can be reduced in four stages. • The control input for AC signals is configured at the factory; a control input for DC signals is available as an optional accessory. • An auxiliary heater can be integrated as an option. • Integral childproofing as the programming unit can be locked. • High heat retention capacity. • The storage heater is equipped as standard with a fluff filter and operates very quietly. •

Installation • The appliance is installed directly on the floor or off-floor on suitable floor mounting brackets. • Easily accessible electrical connection with fold-out connection panel. • Single-phase or three-phase connection is possible. • A permanent control voltage is required.

Safety • Integral safety temperature limiter.

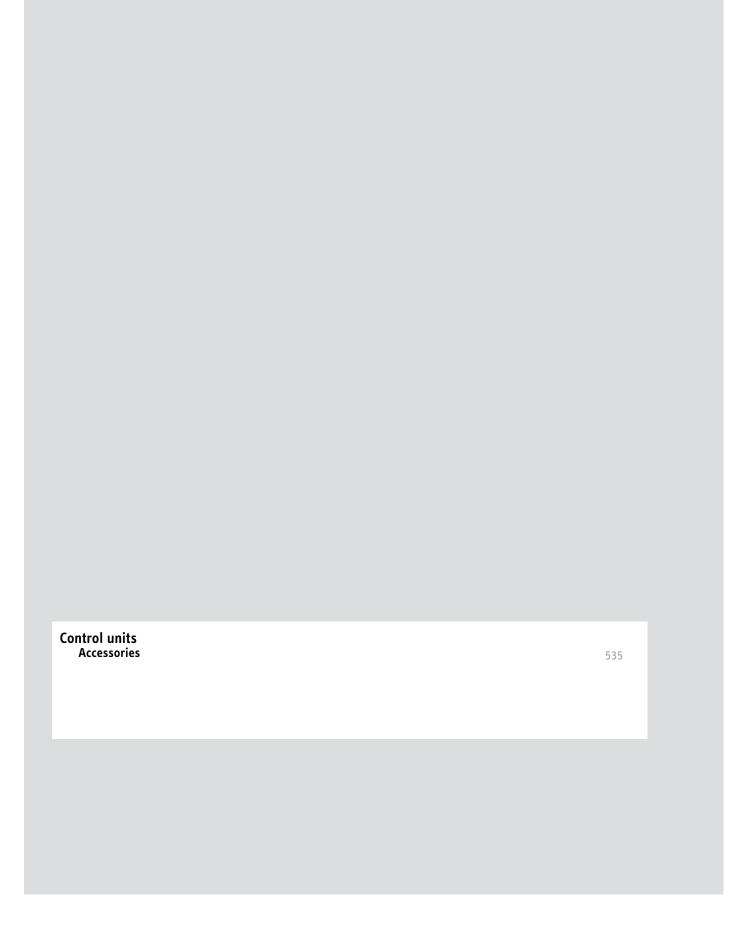


| | | SHF 2000 | SHF 3000 | SHF 4000 | SHF 5000 | SHF 6000 | SHF 7000 |
|-------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| Part number | | 200175 | 200176 | 200177 | 200178 | 200179 | 200180 |
| | | | | | | | |
| Specification | | | | | | | |
| Power supply | | 1/N/PE, 3/N/PE |
| Frequency | Hz | 50/- | 50/- | 50/- | 50/- | 50/- | 50/- |
| Rated current | Α | 2.9 | 4.3 | 5.8 | 7.2 | 8.7 | 10.1 |
| Rated connected load | kW | 2.00 | 3.00 | 4.00 | 5.00 | 6.00 | 7.00 |
| Fuse protection | Α | 10 | 10 | 10 | 16 | 16 | 16 |
| Heating output | W | 820 | 1180 | 1630 | 1910 | 2400 | 2770 |
| Operating noise | dB(A) | 30 | 32 | 33 | 34 | 34 | 34 |
| Heat retention capacity | % | 47 | 52 | 55 | 56 | 59 | 60 |
| Height | mm | 650 | 650 | 650 | 650 | 650 | 650 |
| Width | mm | 605 | 780 | 955 | 1130 | 1305 | 1480 |
| Depth | mm | 275 | 275 | 275 | 275 | 275 | 275 |
| Weight | kg | 32 | 40 | 48 | 56 | 64 | 72 |
| Weight (incl. bricks) | kg | 116 | 169 | 220 | 266 | 316 | 373 |
| Number of brick packs | | 6 | 9 | 12 | 15 | 18 | 21 |
| Colour | | alpine white |

Core bricks included in the standard delivery.

Overall depth = 30 mm with wall clearance mesh

Storage heater Accessories for storage heaters



Control units

RTA-S2



Benefits

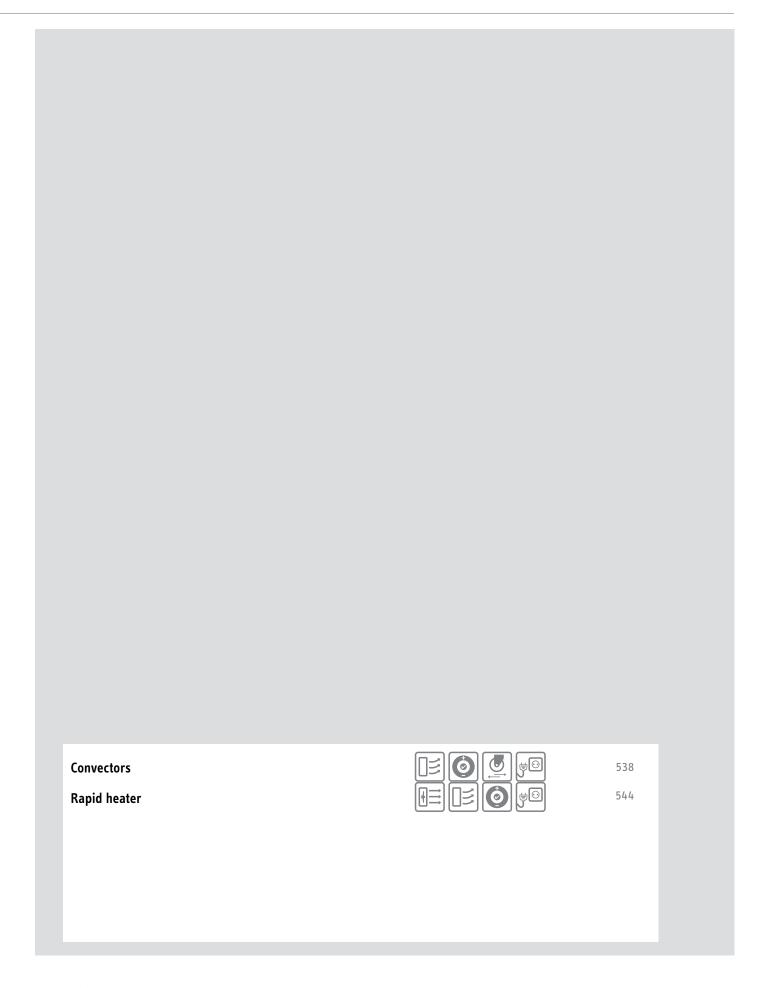
-) ON/OFF switch
- > Variable temperature selection via rotary selector
- > Optional temperature setback via external time switch
- > Adjustable range restriction so that minimum and maximum temperatures can be specified individually

The room temperature controller for surface mounting has an integral bimetal controller with thermal feedback. It is equipped with an on/off switch and terminal for temperature reduction via an external time switch.

RTA-S2

| | | RTA-S2 |
|-------------------|----|----------------------|
| Part number | | 231061 |
| Specification | | |
| Breaking capacity | Α | 10 |
| Rated voltage | ٧ | 230 |
| Frequency | Hz | 50/- |
| IP rating | | IP 30 |
| Colour | | pure white, RAL 9010 |
| Width | mm | 75 |
| Height | mm | 75 |
| Depth | mm | 26 |

Room heating Direct heating



Convectors

Application areas



Direct heating Convectors

| Wall installation | 538 |
|--------------------------------------|-----|
| CNS Trend M Floorstanding appliances | 541 |
| CWM M-F | 542 |
| | |

12

Convectors

CWM P



CWM 500 P

Benefits

- > Wall mounted convector heaters with high heating output
- > Compact metal casing in a slimline design
- > Electronic controller with backlit LCD
- > Weekly timer with 3 time programs, self-learning function and open window detection
-) In timer mode, the self-learning control unit calculates the preheating time automatically
- > Safety through overheating protection
- > Omnipolar ON/OFF switch
- > Long lasting stainless steel tubular heater with steel fins
- During a power failure, the clock is buffered for up to 10 hours

Application • The convector is suitable for use as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or utility rooms. • With its compact dimensions, it takes up very little space. • The timeless and very slimline design suits any setting.

Convenience features • The electronically controlled convector ensures even, silent and accurate heating of the indoor air. • The preferred room temperature is easy to adjust at the top mounted programming unit. • The appliance has a large and easy to read display with programmable weekly timer with one individually programmable and two preset time programs. • In addition to the comfort temperature, it is also possible to program the setback temperature. In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • Omnipolar ON/OFF switch. • The high grade tubular heater made from stainless steel with aluminium coated steel fins and the robust metal casing both help to ensure a long service life. • The appliance is equipped with an integral frost protection setting.

Efficiency • Users can activate a function on the appliance which detects open windows, thereby avoiding unnecessary energy loss.

Installation • Straightforward, stable wall mounting needs one person only because the wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that then remains is to hook the maintenance-free appliance into place. • The power cable is fitted with a Schuko plug.

Safety • Integral childproofing means that the programming unit can be locked. • Integral safety temperature limiter.

| | | CWM 500 P | CWM 750 P | CWM 1000 P | CWM 1500 P |
|------------------|----|----------------|----------------|----------------|----------------|
| Part number | | 200254 | 200255 | 200256 | 200257 |
| | | | | | |
| Specification | | | | | |
| Power supply | | 1/N/PE ~ 230 V |
| Rated voltage | V | 230 | 230 | 230 | 230 |
| Voltage range | V | 230 | 230 | 230 | 230 |
| Frequency | Hz | 50 | 50 | 50 | 50 |
| Rated current | A | 2.2 | 3.3 | 4.3 | 6.5 |
| Connected load | W | 500 | 750 | 1000 | 1500 |
| Connected load | kW | 0.5 | 0.75 | 1.0 | 1.5 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Fuse protection | A | 10 | 10 | 10 | 10 |
| Setting range | °C | 5 - 30 | 5 - 30 | 5 - 30 | 5 - 30 |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 |
| Protection class | | 1 | 1 | 1 | 1 |
| Height | mm | 450 | 450 | 450 | 450 |
| Width | mm | 348 | 426 | 426 | 582 |
| Depth | mm | 100 | 100 | 100 | 100 |
| Weight | kg | 4.00 | 4.60 | 4.60 | 6.00 |
| Colour | | alpine white | alpine white | alpine white | alpine white |

CWM 2500 P

1/N/PE ~ 230 V

200259

230

230

CWM 3000 P

1/N/PE ~ 230 V

200260

~230

230

CWM 2000 P

1/N/PE ~ 230 V

200258

230

230

Continue on next page >

Part number

Specification
Power supply

Rated voltage

Voltage range

Direct heating Convectors

| | | CWM 2000 P | CWM 2500 P | CWM 3000 P |
|------------------|----|--------------|--------------|--------------|
| Frequency | Hz | 50 | 50 | 50 |
| Rated current | Α | 8.7 | 10.9 | 13.0 |
| Connected load | W | 2000 | 2500 | 3000 |
| Connected load | kW | 2.0 | 2.5 | 3.0 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE |
| Fuse protection | Α | 10 | 16 | 16 |
| Setting range | °C | 5 - 30 | 5 - 30 | 5 - 30 |
| IP rating | | IP 24 | IP 24 | IP 24 |
| Protection class | | I | I | I |
| Height | mm | 450 | 450 | 450 |
| Width | mm | 738 | 894 | 1050 |
| Depth | mm | 100 | 100 | 100 |
| Weight | kg | 7.70 | 9.20 | 10.90 |
| Colour | | alpine white | alpine white | alpine white |

12

CNS Trend M



CNS 50 Trend M

Benefits

- > Wall mounted convector heaters with high heating output
- > Compact metal casing in a slimline design
- > Mechanical temperature controller
-) Omnipolar ON/OFF switch
- > Safety through overheating protection
- > Long lasting stainless steel tubular heater with steel fins

Application • Compact, wall mounted convector as a standalone heater, as an efficient interim heater in spring/autumn, or for additional heat demand in the living space, bathroom or utility rooms. The timeless and very slimline design suits any setting.

Convenience features • The indoor air is heated evenly and silently by the mechanically controlled convector. • The preferred room temperature can be variably adjusted on the programming unit. • A high grade stainless steel tubular heater with steel fins is integrated in the robust metal casing. The appliance features a frost protection setting and an omnipolar ON/OFF switch.

Installation • Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be adjusted later. All that remains is to hook the appliance into place.

Safety • Integral safety temperature limiter.

| | | CNS 50 Trend M | CNS 100 Trend M | CNS 150 Trend M | CNS 200 Trend M | CNS 250 Trend M | CNS 300 Trend M |
|------------------|----|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Part number | | 203638 | 203640 | 203641 | 203642 | 203643 | 203644 |
| Specification | | | | | | | |
| Power supply | | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V |
| Rated voltage | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Rated current | Α | 2.2 | 4.3 | 6.5 | 8.7 | 10.9 | 10.5 |
| Connected load | W | 500 | 1000 | 1500 | 2000 | 2500 | 3000 |
| Connected load | kW | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Fuse protection | Α | 10 | 10 | 10 | 10 | 16 | 16 |
| Setting range | °C | 5-35 | 5-35 | 5-35 | 5-35 | 5-35 | 5-35 |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 |
| Protection class | | 1 | 1 | 1 | 1 | 1 | 1 |
| Height | mm | 450 | 450 | 450 | 450 | 450 | 450 |
| Width | mm | 348 | 426 | 582 | 738 | 894 | 1050 |
| Depth | mm | 100 | 100 | 100 | 100 | 100 | 100 |
| Weight | kg | 4.00 | 4.60 | 6.00 | 7.70 | 9.10 | 10.50 |
| Colour | | alpine white | alpine white | alpine white | alpine white | alpine white | alpine white |

Convectors

Floorstanding appliances

CWM M-F



CWM 750 M-F

Benefits

- > Freestanding convectors with a high heating output
- › Mechanical temperature controller
- > For maximum operational reliability, the integral pendulum switch protects against overturning
- > Handle and feet with castors
- > Omnipolar ON/OFF switch
- > Long lasting stainless steel tubular heater with steel fins

Application • The freestanding convector in a robust metal casing features easy handling and can be used for various applications. The convector is ideal where heat is required quickly on demand.

Convenience features • Even and silent heating of the indoor air. • The preferred room temperature is easy to adjust at the temperature selector. • The convector has a frost protection setting. • High grade stainless steel tubular heater with steel fins. • Very user friendly thanks to the top mounted operating controls.

Installation • Appliance has a handle and feet with castors as standard for use as a floorstanding convector. The appliance is supplied ready for connection with power cable and standard plug.

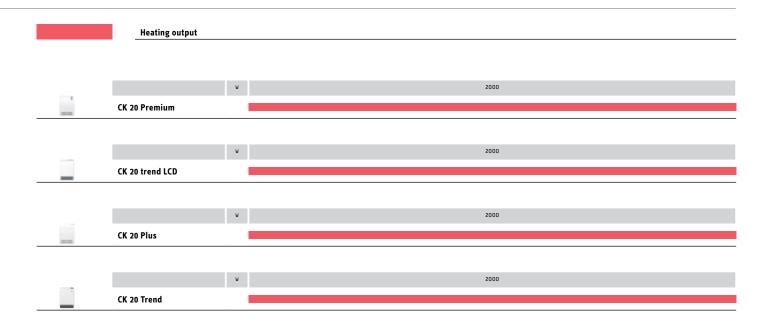
Safety • The integral pendulum switch ensures protection against overturning for maximum safety in operation. Additional protection against overheating through the integral safety temperature limiter.

| | | CWM 750 M-F | CWM 1000 M-F | CWM 1500 M-F | CWM 2000 M-F | CWM 2500 M-F | CWM 3000 M-F |
|------------------|----|----------------|----------------|--------------|----------------|----------------|----------------|
| Part number | | 204452 | 204453 | 204454 | 204455 | 204456 | 204457 |
| | | | | | | | |
| Specification | | | | | | | |
| Power supply | | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V | 1/N/PE | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V | 1/N/PE ~ 230 V |
| Rated voltage | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Voltage range | V | 230 | 230 | 230 | 230 | 230 | 230 |
| Frequency | Hz | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Rated current | Α | 3,3 | 4,3 | 6,5 | 8,7 | 10,9 | 13 |
| Connected load | W | 750 | 1000 | 1500 | 2000 | 2500 | 3000 |
| Connected load | kW | 0,75 | 1 | 1,5 | 2 | 2,5 | 3 |
| Phases | | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE | 1/N/PE |
| Fuse protection | Α | 10 | 10 | 10 | 16 | 16 | 16 |
| Setting range | °C | 5-35 | 5-35 | 5-35 | 5-35 | 5-35 | 5-35 |
| IP rating | | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 | IP 24 |
| Protection class | | I . | 1 | 1 | 1 | 1 | 1 |
| Height | mm | 546 | 546 | 546 | 546 | 546 | 546 |
| Width | mm | 426 | 426 | 582 | 738 | 894 | 1050 |
| Depth | mm | 305 | 305 | 305 | 305 | 305 | 305 |
| Weight | kg | 5.00 | 5.00 | 6.50 | 8.70 | 9.00 | 10.30 |
| Colour | | alpine white | alpine white | alpine white | alpine white | alpine white | alpine white |

This product is only suitable for well insulated rooms or for occasional use.

Depth and height including feet with castors

Rapid heater Application areas



Direct heating Rapid heater

| Rapid heater | |
|--------------|------|
| CK Premium | 545 |
| CK Trend LCD | 546 |
| CK Plus | 547 |
| CK Trend | 548 |
| | 3.10 |

Rapid heater

CK Premium



CK 20 Premium

Benefits

- > Elegant design with aluminium front
- > Electronic controller with backlit LCD
- > Silent mode with a quiet heating stage and powerful rapid heat-up stage
- > Weekly timer with 3 time programs, self-learning function and open window detection
- > With short-term timer
- > Safety through overheating protection
- > Omnipolar ON/OFF switch

Application • The high quality rapid heater is suitable as a standalone heater or as a booster heater, particularly for rooms that are not heated constantly. • The wall mounted appliance heats the indoor air quickly and evenly. • The appliance, whose design won the Red Dot Design Award, suits any setting.

Convenience features • The electronically controlled premium rapid heater is equipped with a large, easy to read display. The required room temperature can be easily adjusted at the top-mounted programming unit. • In addition to the programmable weekly timer, there are two preset and one individually programmable time programs available. • In addition to the comfort temperature, it is also possible to program the setback temperature. In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • Quiet operation with Silent Mode which features a switchable heating stage and reduced fan speed. • The elegant appliance is equipped with a 3 mm aluminium front and has an integral frost protection setting.

Efficiency • Users can activate a function on the appliance which detects open windows, thereby avoiding unnecessary energy loss.

Installation • Straightforward, stable wall mounting by just one person because the wall mounting bracket is fitted separately from the appliance and can be adjusted afterwards. All that then remains is to hook the maintenance-free appliance into place.

Safety • Integral childproofing as the programming unit can be locked. • Also contributing to the safety credentials is the integral temperature limiter.



| | | CK 20 Premium |
|----------------------|-------|----------------|
| Part number | | 237835 |
| | | |
| Specification | | |
| Power supply | | 1/N/PE ~ 230 V |
| Rated voltage | V | 230 |
| Voltage range | V | 220-240 |
| Frequency | Hz | 50 |
| Rated current | Α | 8.7 |
| Connected load | W | 2000 |
| Connected load | kW | 2 |
| Phases | | 1/N/PE |
| Fuse protection | Α | 16 |
| Sound pressure level | dB(A) | 37/48 |
| Setting range | °C | 5 - 30 |
| IP rating | | IP 24 |
| Protection class | | |
| Height | mm | 470 |
| Width | mm | 345 |
| Depth | mm | 126 |
| Weight | kg | 5.30 |
| Colour | | alpine white |

Rapid heater

CK Trend LCD



CK 20 trend LCD

Benefits

- > Compact appliance in a plastic casing
- > Electronic controller with backlit LCD
- > Weekly timer with 3 time programs, self-learning function and open window detection
- During a power failure, the clock is buffered for up to 10 hours
- > Very high safety thanks to 3-stage overheating protection
- > Fluff filter in the air intake
- > Cable storage at the back for the connecting cable
- > Very quiet operation

Application • The rapid heater is suitable as a standalone heater in bathrooms, or as an efficient interim heater in spring/autumn and as a booster heater, e.g. in guest bedrooms or recreational rooms. • Thanks to its compact design, it does not take up much space. • The appliance is designed for wall mounting and heats the indoor air quickly and evenly.

Convenience features • The electronically controlled rapid heater is equipped with a large and easy to read display.
• The required room temperature can be easily adjusted on the top-mounted programming unit. • In addition to the programmable weekly timer, there are two preset and one individually programmable time programs available. • In addition to the comfort temperature, it is also possible to program the setback temperature. In timer mode, the comfort temperature is achieved at precisely the right time thanks to the adaptive control with learning function. • If required, users are able to activate a function on the appliance which detects when windows are open; this avoids unnecessary energy loss. • The rapid heater has an integral fluff filter. • The casing is made from robust, hard-wearing plastic.

Efficiency • The high quality self-limiting ceramic heating element keeps the temperature constant, thereby saving energy.

Installation • Straightforward, stable wall mounting needs one person only because the wall mounting bracket is fitted to the wall separately from the appliance and can be readjusted later. All that then remains is to hook the appliance into place. • The power cable comes as standard with a right angle plug. Cable storage is provided on the back to accommodate any excess power cable.

Safety • Integral childproofing as the programming unit can be locked. • The 3-stage safety concept includes the self-limiting ceramic heating element, the temperature limiter and the built-in temperature fuse.

| | | CK 20 trend LCD |
|----------------------|-------|-----------------|
| Part number | | 236653 |
| Specification | | |
| Power supply | | 1/N ~ 230 V |
| Rated voltage | V | ~230 |
| Voltage range | V | 220 - 240 |
| Frequency | Hz | 50/- |
| Rated current | Α | 8.7 |
| Connected load | W | 2000 |
| Connected load | kW | 2 |
| Phases | | 1/N |
| Fuse protection | Α | 16 |
| Sound pressure level | dB(A) | 49 |
| Setting range | °C | 5 - 30 |
| IP rating | | IP 24 |
| Protection class | | <u>II</u> |
| Height | mm | 400 |
| Width | mm | 275 |
| Depth | mm | 131 |
| Weight | kg | 2.50 |
| Colour | | alpine white |

Rapid heater

CK Plus



CK 20 Plus

Benefits

- > Efficient primary and booster heater
- > Elegant design with aluminium front
- > High quality rapid heater with mechanical temperature controller
- > Frost protection setting
- > Safety through overheating protection
-) Quiet crossflow fan

Application • High grade rapid heater for use as an efficient standalone heater or booster heater. Suitable for rooms with an additional heat demand and which are not heated constantly, e.g. bathrooms. • The wall mounted, mechanically controlled appliance heats the indoor air quickly, quietly and evenly.

Convenience features • The preferred room temperature can be variably adjusted and is reached quickly thanks to the quiet crossflow fan. • The metal casing with high quality design has a 3 mm-thick aluminium front panel. The operating controls are integrated in the plastic side components, which also protect them. • The appliance features a frost protection setting.

Installation • Straightforward wall mounting needs one person only. The wall mounting bracket is fitted to the wall separately from the appliance and can be adjusted later. • The rapid heater is maintenance-free.

Safety • Omnipolar ON/OFF switch. • The integral safety temperature limiter protects against overheating. • The rounded shape of the casing prevents combustible objects being deposited on the appliance.

| | | CK 20 Plus |
|----------------------|-------|--------------|
| Part number | | 202127 |
| | | |
| Specification | | |
| Power supply | | 1/N/PE |
| Rated voltage | V | 230 |
| Voltage range | V | 220-240 |
| Frequency | Hz | 50 |
| Rated current | Α | 8.7 |
| Connected load | W | 2000 |
| Connected load | kW | 2 |
| Phases | | 1/N/PE |
| Fuse protection | Α | 16 |
| Sound pressure level | dB(A) | 48 |
| Setting range | °C | 5-35 |
| IP rating | | IP 24 |
| Protection class | | 1 |
| Height | mm | 470 |
| Width | mm | 345 |
| Depth | mm | 126 |
| Weight | kg | 5.30 |
| Colour | | alpine white |

Depth including wall mounting bracket Note: for sale only outside the EU. (Product: 202127)

Rapid heater

CK Trend



CK 20 Trend

Benefits

- > Compact appliance in a plastic casing
- > Mechanical temperature controller
- > Self-limiting PTC heating element
- > Very high safety thanks to 3-stage overheating protection
- > Fluff filter in the air intake
- > Cable storage at the back for the connecting cable
- > Very quiet operation

Application • The compact wall mounted rapid heater is an efficient standalone heater or booster heater for rooms that are not heated constantly. The mechanically controlled appliance heats the indoor air quickly, quietly and evenly.

Convenience features • The preferred room temperature can be variably adjusted via the controller at the side. • The casing is made from robust plastic, with an alpine white appliance cover and grey air discharge grille and back panel. • Operating controls on top. • The rapid heater is equipped with cable storage at the back and a fluff filter in the air intake.

Installation • Straightforward, stable wall mounting needs one person only: The wall mounting bracket is fitted to the wall separately from the appliance and can be adjusted later. • The maintenance-free appliance has a power cable with right angle plug.

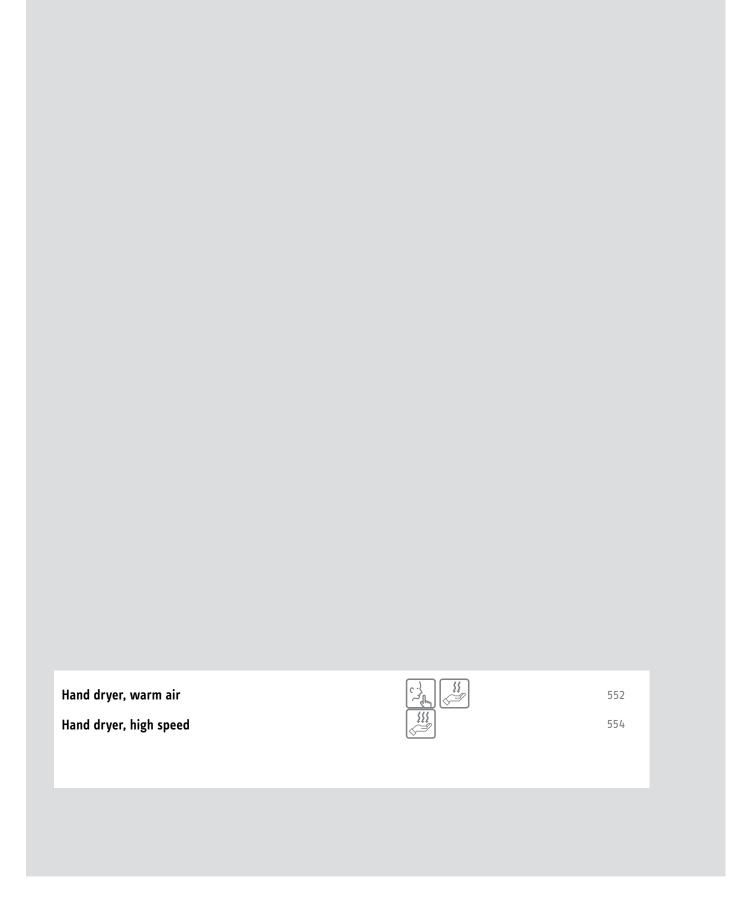
Safety • The 3-stage safety concept comprises the self-limiting ceramic heating element, temperature limiter and integral temperature fuse.

| | | CK 20 Trend |
|----------------------|-------|--------------|
| Part number | | 234918 |
| | | |
| Specification | | |
| Power supply | | 1/N ~ 230 V |
| Rated voltage | V | ~230 |
| Voltage range | V | 220 - 240 |
| Frequency | Hz | 50 |
| Rated current | Α | 8.7 |
| Connected load | W | 2000 |
| Connected load | kW | 2 |
| Phases | | 1/N |
| Fuse protection | Α | 16 |
| Sound pressure level | dB(A) | 49 |
| Setting range | °C | 7-35 |
| IP rating | | IP 24 |
| Protection class | | Ш |
| Height | mm | 400 |
| Width | mm | 275 |
| Depth | mm | 131 |
| Weight | kg | 2.50 |
| Colour | | alpine white |

Depth including wall mounting bracket

Note: Only for sales outside the EU. (Product: 234918)

Hand dryer Hand dryer



Hand dryer Hand dryer



Warm air

HTE



HTE 4

Benefits

- › Award-winning European design
- > Sensor control
- > Durable plastic casing to prevent damage
- > Easy installation and maintenance
- > Protected against water spray according protection class IP23
- > Quiet operation at only 54 decibels
- Meets European EN 60335-1 standard

Application • The HTE is an electric hand dryer which has a heating element and an air blower to dry the hands after they have been washed. It is commonly used in public toilets as a cost-effective alternative to paper towels. • It operates automatically using a sensor.

Convenience features • The HTE hand dryer remains the most hygienic and economical solution for drying hands in a washroom. It eliminates the need to supply and constantly launder hand towels, or paper towels which require disposal and frequent refilling. • By choosing this dryer, you are not only opting for a very hygienic solution; you will also save your business a great deal of time and money. • The HTE Electronic is highly acclaimed, not least because it operates extremely quietly. • An intelligent infrared proximity sensor switches the unit on when hands are held 6 to 12 cm below the air outlet, and automatically switches it off when the hands are moved away. • The robust casing protects the internal components against damage, while the rounded design prevents objects such as cigarette butts from being deposited on the top.

Installation • Quick and easy installation. • Drilling template provided. • Mount on the wall using the screws and wall plugs provided. • Connect to the power supply, then it is ready to use.

Efficiency • Highest energy efficiency rating - "Electricity Saving Label No. 5"

Safety • The HTE is protected against water spray to IP23. • Quiet operation at only 54 decibels. • Meets European EN 60335-1 and TISI electric safety standard.











| 073007 | |
|--------|--|

073007

0730

| | | HTE 4 | HTE 5 |
|------------------|----------|-----------------|------------------------|
| Part number | | 073007 | 073008 |
| | | | |
| Specification | | | |
| Power supply | | 1/N ~ 220-240 V | 1/N ~ 220-240 V |
| Rated voltage | V | 230 | 230 |
| Frequency | Hz | 50/- | 50/- |
| Rated current | A | 7.8 | 7.8 |
| Rated output | W | 1800 | 1800 |
| Operating noise | dB(A) | 54 | 54 |
| Air speed | m/s | 12 | 12 |
| Air flow rate | m³/h | 146 | 146 |
| Drying time | <u> </u> | 36 | |
| IP rating | | IP 23 | IP 23 |
| Protection class | | <u>II</u> | <u></u> |
| Height | mm | 250 | 266 |
| Width | | 238 | 257 |
| Depth | mm | 230 | 230 |
| Weight | kg | 2.50 | 4.00 |
| Casing material | | Plastic | |
| Colour | | alpine white | signal white, RAL 9003 |



Ultronic



Ultronic S

Benefits

- > Extremely short drying time of less than 15 seconds
- > Hygienic and energy efficient through IR proximity sensors
- > Dries with an air speed of in excess of 300 km/h
- > Easy to install as the wall mountings fit the holes on the HTE and HTT units
- > Energy efficient and environmentally responsible
- > Stable and robust version in a contemporary design

Application • High quality high speed electric hand dryer with very short drying time. Dries hands by removing the moisture with a concentrated jet of air. • The appliance is ideally suited to the special demands made on frequently used washroom facilities in restaurants, commerce and public buildings. The design, which has won the iF Design Award, suits any setting.

Convenience features • Contactless operation via integral infrared proximity sensors. High air flow rate for short drying times. Very low connected load. Robust and impact-resistant casing made from diecast aluminium.

Installation • Easy installation. The appliance has no power cable; the power supply is wired directly into the appliance.

Safety • Integral safety temperature limiter.



2012

| | | Ultronic S | Ultronic W |
|------------------|-------|----------------------|------------------------|
| Part number | | 231582 | 231583 |
| Specification | | | |
| Power supply | | 1/N/PE ~ 220-240V | 1/N/PE ~ 220-240V |
| Rated voltage | V | 230 | 230 |
| Frequency | Hz | 50/60 | 50/60 |
| Rated current | Α | 4.0 | 4.0 |
| Rated output | W | 910 | 910 |
| Operating noise | dB(A) | 82 | 82 |
| Air speed | m/s | 94 | 94 |
| Air flow rate | m³/h | 200 | 200 |
| Drying time | S | 15 | 15 |
| IP rating | | IP 24 | IP 24 |
| Protection class | | <u>I</u> | <u> </u> |
| Height | mm | 289 | 289 |
| Width | mm | 257 | 257 |
| Depth | mm | 234 | 234 |
| Weight | kg | 4.40 | 4.40 |
| Casing material | | Diecast aluminium | Diecast aluminium |
| Colour | | Stainless steel look | signal white, RAL 9003 |



Comfort through Technology