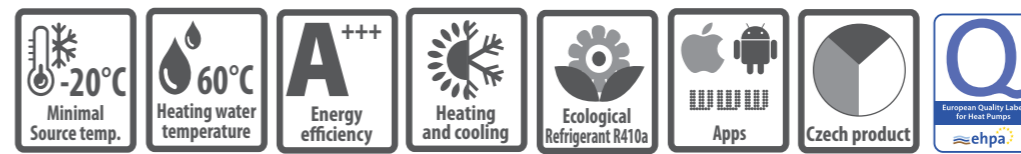
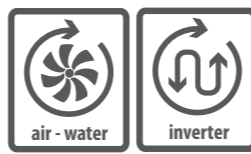


BoxAir Inverter

NEW DESIGN



air to water, compact, inverter

| Model | A7W35 Power (kW) | Heat loss Qz (kW) | A7W35 60Hz ¹⁾ | | A2W35 60Hz | | A-7W35 80Hz | | A-15W35 90Hz | | Seasonal heating energy efficiency - low-temperature operation 35°C | | | | Seasonal heating energy efficiency - medium-temperature operation 55°C | | | | Circuit breaker ²⁾ | | Compressor, supply voltage 3ph/1ph | Weight (kg) | Leakage control of refrigerant circuit EP 517/2014 | STANDARD (μPC) Price EUR EXW CZ | PLUS (pCO5) Price EUR EXW CZ |
|------------|---------------------|----------------------|--------------------------|-----|------------|-----|-------------|------|--------------|-----|--|------|------------|------|---|-------|--------------------------|------|-------------------------------|--------|--|----------------|---|--|---------------------------------------|
| | | | Power (kW) | COP | Power (kW) | COP | Power (kW) | COP | Power (kW) | COP | Power (kW) | COP | Power (kW) | SCOP | ηs % | Class | Power (kW) ³⁾ | SCOP | ηs % | Class | | | | | |
| BoxAir 221 | 2-7 | to 5,5 | 4,9 | 4,7 | 3,6 | 3,5 | 3,6 | 2,8 | 3,2 | 2,6 | 5 | 4,18 | 164 | A++ | 4 | 3,22 | 126 | A++ | 16A"B" | 20A"B" | 1x230/1x230 V~ | 115 | no | on request | on request |
| BoxAir 261 | 3-9 | to 8,5 | 8,1 | 4,8 | 5,8 | 3,5 | 5,5 | 2,8 | 5,1 | 2,5 | 7,5 | 4,40 | 173 | A++ | 7 | 3,36 | 132 | A++ | 20A"B" | 20A"B" | 1x230/1x230 V~ | 120 | no | on request | on request |
| BoxAir 301 | 5-12 | to 10 | 8,65 | 5,2 | 6,25 | 3,8 | 6,0 | 2,9 | 5,3 | 2,4 | 8,5 | 4,49 | 177 | A+++ | 8 | 3,45 | 135 | A++ | 25A"B" | 25A"B" | 1x230/1x230 V~ | 155 | no | on request | on request |
| BoxAir 371 | 5-17 | to 13 | 11,5 | 4,7 | 8,8 | 3,7 | 8,7 | 2,8 | 8,2 | 2,3 | 11 | 4,48 | 176 | A+++ | 10 | 3,50 | 137 | A++ | 25A"B" | 25A"B" | 3x400/1x230 V~ | 165 | no | on request | on request |
| BoxAir 451 | 7-22 | to 16 | 15,3 | 4,7 | 10,6 | 3,5 | 11,1 | 2,75 | 9,8 | 2,2 | 14 | 4,30 | 169 | A++ | 13 | 3,32 | 130 | A++ | 32A"B" | 32A"B" | 3x400/1x230 V~ | 165 | no | on request | on request |

¹⁾ Performance data according to ČSN EN 14 511, in accordance with the EHPA requirements for quality mark Q. A7W35 60 Hz - air 7 °C, water 35 °C, compressor frequency 60 Hz
²⁾ Recommended value of el. 3x400V fuse, incl. Auxiliary integrated electric boiler. The units 221, 261 and 301 can also be connected to a 1x230V network with 40A"B"(221), resp. 50A"B"(261, 301).
³⁾ Design power at outdoor temperature -10 °C according to ČSN EN 14 825.

Options

Internet HP control Master

Full Cooling reversing

Terminal pAD temperature compensation

Terminal pADh floor cooling

Expanded control module for PLUS version

Evap. with Corrosion Resistant Coating (single fan)

Evap. with Corrosion Resistant Coating (2 fans)

External unit colour on demand RAL code

Silver colour

RAL 9006

Standard equipment

✓ Graphic terminal PGD

✓ Variable output Inverter Compressor

✓ New low-noise fan

✓ Equitherm control system MaR

✓ Built-in immersion heater and circulation pump

✓ Electronically controlled coolant injection

Features

▶ Outdoor compact

▶ Use for heating and cooling

▶ The temperature of heating water to 60 °C

▶ Temperatures range from +35 °C to -20 °C

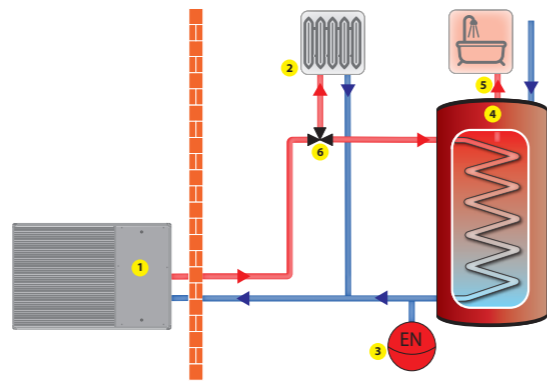
▶ Very easy installation, quiet operation

▶ Control up to 6 heating circuits

Heat pump connected directly to the heating system with 3wv for domestic hot water (dhw) preparation.

1-heat pump, 2-heating system, 3-expansion vessel, 4-dhw tank with coil, 5-dhw outlet, 6-3way valve

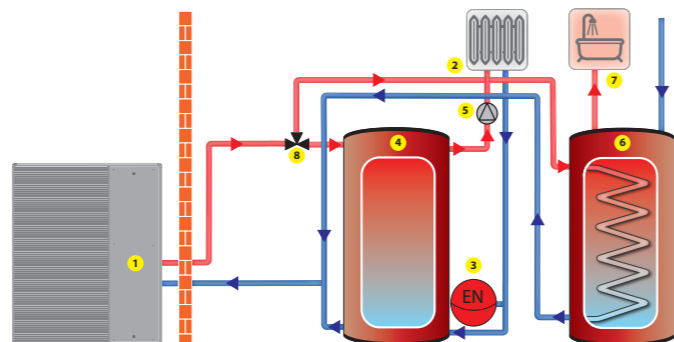
The heat pump (1) is directly connected to heating system. Heating water temperature is controlled according to a weather compensation curve. Production of hot water is a priority over the heating system by switching the 3wv (6) to the dhw tank (4). The heat pump increases the outlet water temperature until the requested dhw temperature is achieved, once achieved the heat pump switches the 3wv back to heating operation. This type of system is ideally suited to underfloor heating systems (ufh) but also systems with radiators with a large volume of heating water utilising our pAD room terminal. This solution limits the possibility of local zone control (independent loop ufh, thermostatic valves on radiators).



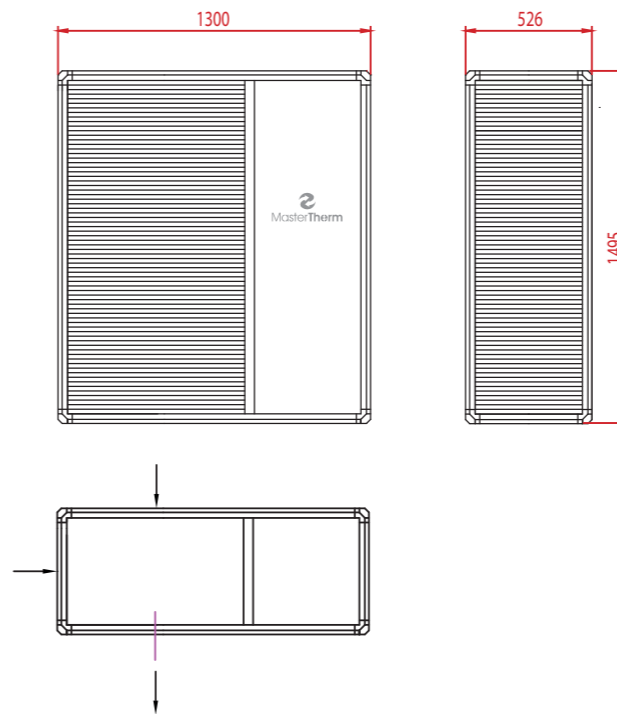
Heat pump connected to a buffer tank and 3wv to the domestic hot water cylinder (dhw) preparation.

1-heat pump, 2-heating system, 3-expansion vessel, 4-buffer tank, 5-heating circulator pump, 6-dhw tank with coil, 7-dhw outlet, 8-3way valve

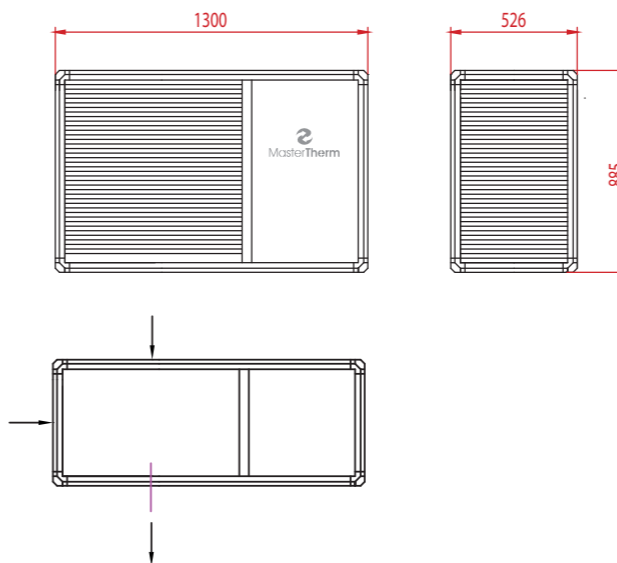
Heat pump (1) connected to the heating system through a buffer tank (4) which has the function of thermal buffer and a low loss header. Heating water temperature is controlled according to a weather compensation curve. The flow to the heating system is controlled by the main heating circulation pump. Production of hot water is a priority over the heating system by switching the 3wv (8) to the dhw tank (6). The heat pump increases the outlet water temperature until the requested dhw temperature is achieved, once achieved the heat pump switches the 3wv back to heating operation. This solution is ideally suited to systems with low heat buffering capacity and systems that require independent room zone control. Additionally, this type of system has the ability to integrate a secondary source of heat into the buffer tank (4) such as a wood stove with back boiler.



Dimensions and connections: BA301 and BA451:



Dimensions and connections: BA221 and BA261:



| Heating circuits control | STANDARD (μPC) | PLUS (pCO5) |
|---------------------------|--------------------------------|--------------------------------|
| Intended for | single-circuit heating systems | multi-circuit heating systems |
| Main heating circuit | Yes | Yes |
| Secondary heating circuit | No | 2 independent including mixing |
| Room temperature | In 1 zone | In 2 zones |
| SHW | Yes | Yes |
| Optional | No | Up to 6 heating circuits |

