

# AWP 200



## Short description

Exhaust air heat pump, for low-energy houses with a living space up to approx. 170 m<sup>2</sup>

## Application examples

3-litre house, Apartment

Article number 0095.0054

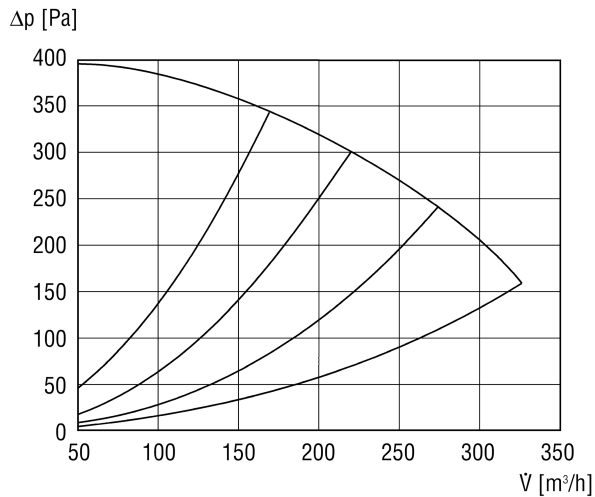
## Technical data

Air flow volume	100 m <sup>3</sup> /h / 280 m <sup>3</sup> /h
Minimum air flow volume	175 m <sup>3</sup> /h
Maximum pressing	270 Pa
Power module rated voltage	400 V
Control unit rated voltage	230 V
Maximum power consumption	8.800 W
Power consumption of fan	50 W
I <sub>max</sub>	18 A
WP starting current	13 A
Degree of protection	IP 20
Electrical reheating and compressor fuse protection	20gl A
Transformer and control fuse protection	16gl A
Housing material	Sheet steel, galvanised
Colour	Silver grey
Weight (empty)	190 kg
Weight (filled)	493 kg
Weight including packaging	217,5 kg
Storage tank size	303
Ventilation ducts connection diameter	160 mm
Heating connection diameter	22 mm (outside)
Hot water connection diameter	22 mm (outside)
Circulation connection diameter	1/2 (outside)
Connection diameter of condensation drain	12 (hose)
Width	702 mm
Height	1.990 mm
Depth	780 mm
Width with packaging	770 mm
Height with packaging	2.100 mm
Depth with packaging	800 mm

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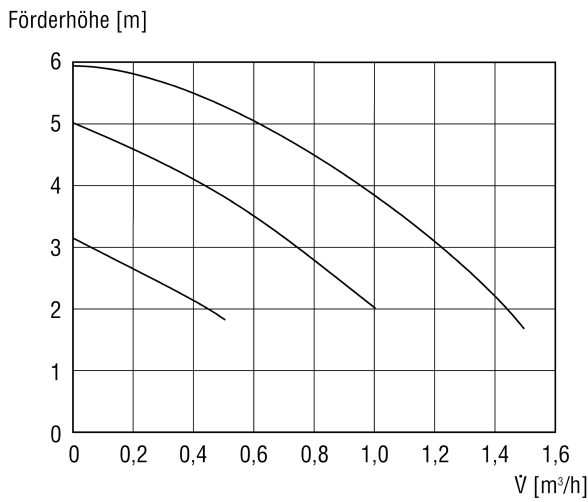
Heater power rating (electr. hot water re-heating)	1.500 W
Heater power rating (heat pump)	2.100 W
Temperature distribution with only WP operation	4 K
Minimum heating volume flow	400 l/h
WP working index, in accordance with EN 255, Part 3 (COP(1))	3,7
WP power index, in accordance with EN 225, Part 2 (COP)	4
Heat pump	Air/water
WP heating power and electrical reheating	8.700 W
Coolant	R 134 a
Capacity (coolant)	1.000 g
Hot water heat-up time from 15°C to 55°C with WP	7,3 h
Available pressure difference at the circulation pump, at speed level 1	0,02 MPa / 0,04 MPa / 0,05 MPa
Permitted cooling circuit operating pressure	2,34 MPa
Permitted heating circuit operating pressure	0,3 MPa
Permitted hot water operating pressure	0,6 MPa
Exhaust air lower application limit	15 °C
Storage tank size	303
Packing unit	1 piece
Range	K
GTIN (EAN)	4012799950547

## Characteristic curve Fan characteristic curve at maximum speed



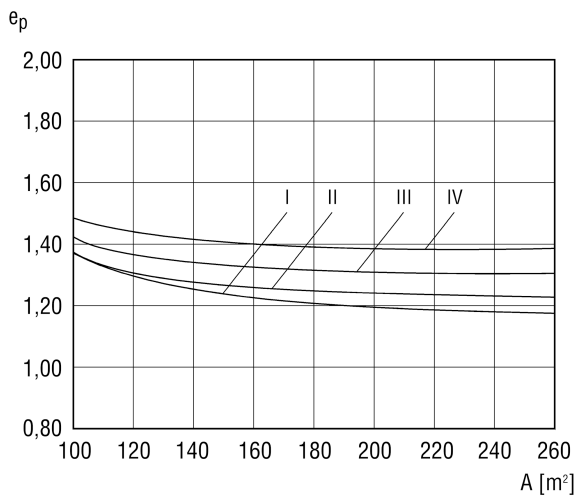
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## Characteristic curve Heating characteristic curve



- ① Step 1
- ② Step 2
- ③ Step 3

## Characteristic curve



- I -  $Q_h = 30 \text{ kWh}/(\text{m}^2\text{a})$
- II -  $Q_h = 40 \text{ kWh}/(\text{m}^2\text{a})$
- III -  $Q_h = 50 \text{ kWh}/(\text{m}^2\text{a})$
- IV -  $Q_h = 60 \text{ kWh}/(\text{m}^2\text{a})$

**Heating system**

Transfer: 2 K radiant panel heating with individual room control

Storage: no storage

Distribution: heated, interior, 35°C / 28°C , controlled pump

Generation: Exhaust air - water heat pump

**Heated drinking water**

Storage: Indirectly heated storage tank within thermal sleeve

Distribution: Central within the building, without circulation, horizontal distribution within the thermal sleeve

Generation: Drinking water heating pump, exhaust air - drinking water and direct, electrical and solar panels

Taken into account: 12.5 kWh/(m²a)

**Ventilation**

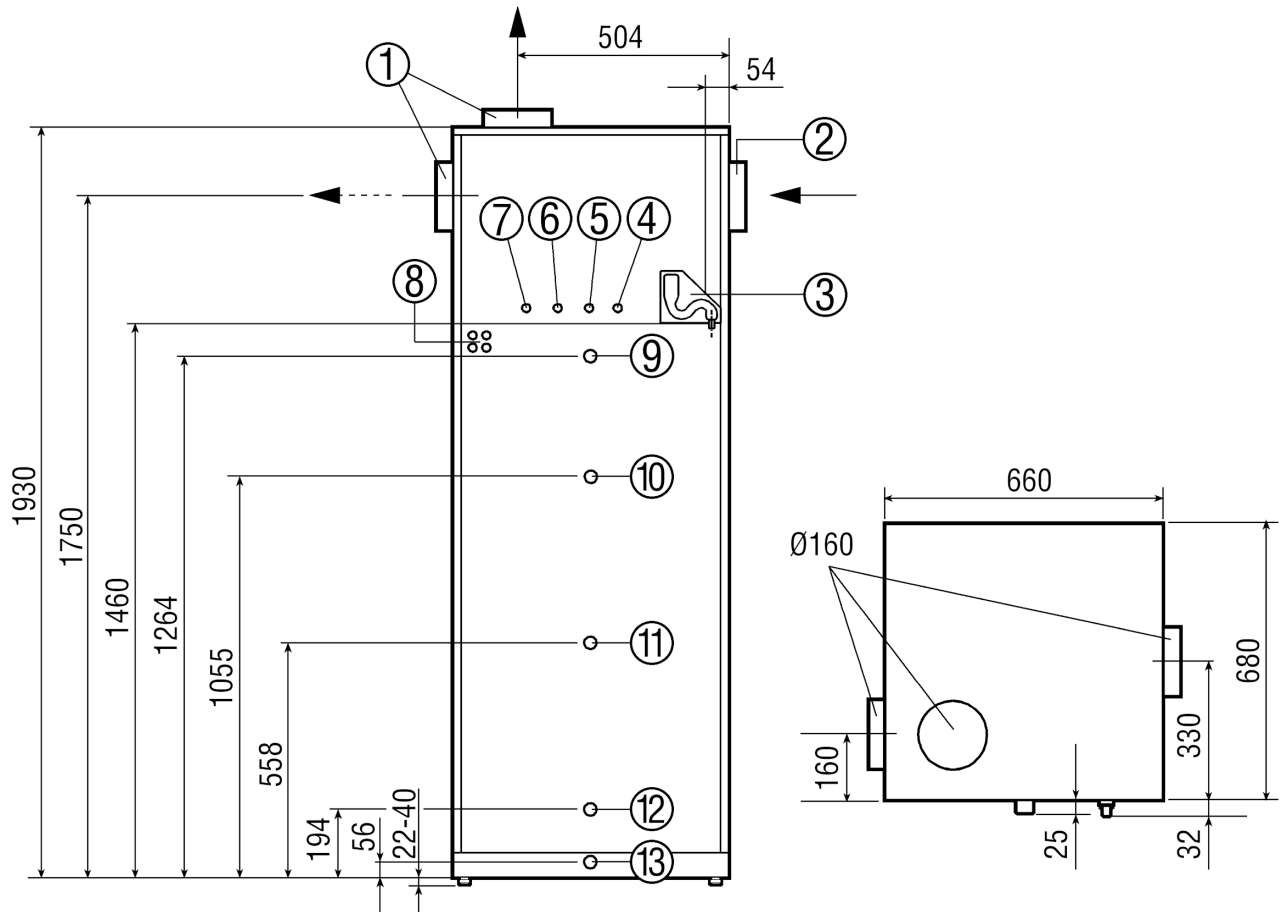
Transfer: Ventilation system with an exhaust air temperature of less than 20°C

Distribution: Exhaust air system with supply air elements, DC fans

Generation: -

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Dimensioned drawing [mm]



- ① Outgoing air (can be mounted if desired)
- ② Exhaust air
- ③ Condensation drain
- ④ Filling and drainage cock for heater
- ⑤ Heater return flow, heating circuit 1
- ⑥ Heater forward flow
- ⑦ Heater return flow, heating circuit 2
- ⑧ Feed-throughs for electric cables
- ⑨ Hot water
- ⑩ Circulation
- ⑪ Solar heat exchanger, forward flow
- ⑫ Solar heat exchanger, return flow
- ⑬ Cold water