

AWP 150



Short description

Exhaust air heat pump, for low-energy houses with a living space up to approx. 130 m²

Application examples

3-litre house, Apartment

Article number 0095.0052

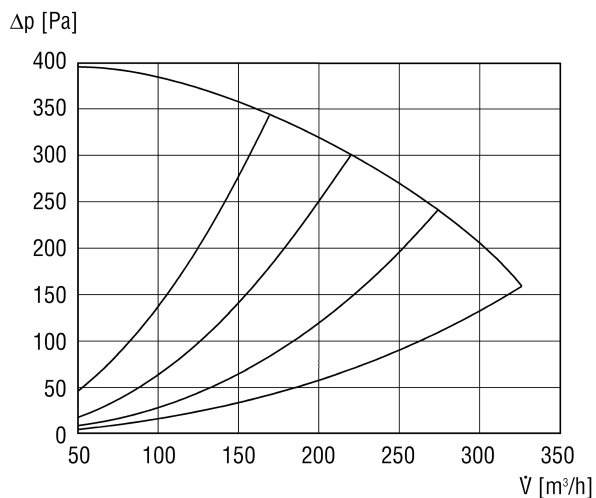
Technical data

| | |
|---|--|
| Air flow volume | 50 m ³ /h / 200 m ³ /h |
| Minimum air flow volume | 125 m ³ /h |
| Maximum pressing | 270 Pa |
| Power module rated voltage | 400 V |
| Control unit rated voltage | 230 V |
| Maximum power consumption | 8.600 W |
| Power consumption of fan | 50 W |
| I _{max} | 17,5 A |
| WP starting current | 10 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) | 187 kg |
| Weight (filled) | 490 kg |
| Weight including packaging | 214 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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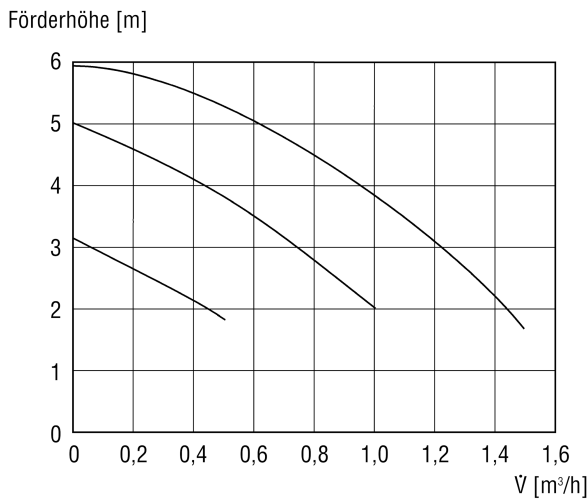
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|---|--------------------------------|
| Heater power rating (electr. hot water re-heating) | 1.500 W |
| Heater power rating (heat pump) | 1.500 W |
| Temperature distribution with only WP operation | 3 K |
| Minimum heating volume flow | 400 l/h |
| WP working index, in accordance with EN 255, Part 3 (COP(1)) | 4,1 |
| WP power index, in accordance with EN 225, Part 2 (COP) | 4 |
| Heat pump | Air/water |
| WP heating power and electrical reheating | 8.100 W |
| Coolant | R 134 a |
| Capacity (coolant) | 1.000 g |
| Hot water heat-up time from 15°C to 55°C with WP | 10,1 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) | 4012799950523 |

Characteristic curve Fan characteristic curve at maximum speed



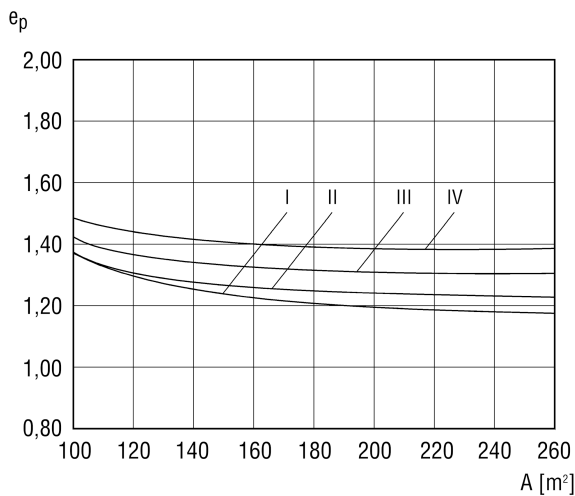
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Characteristic curve Heating characteristic curve



- 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

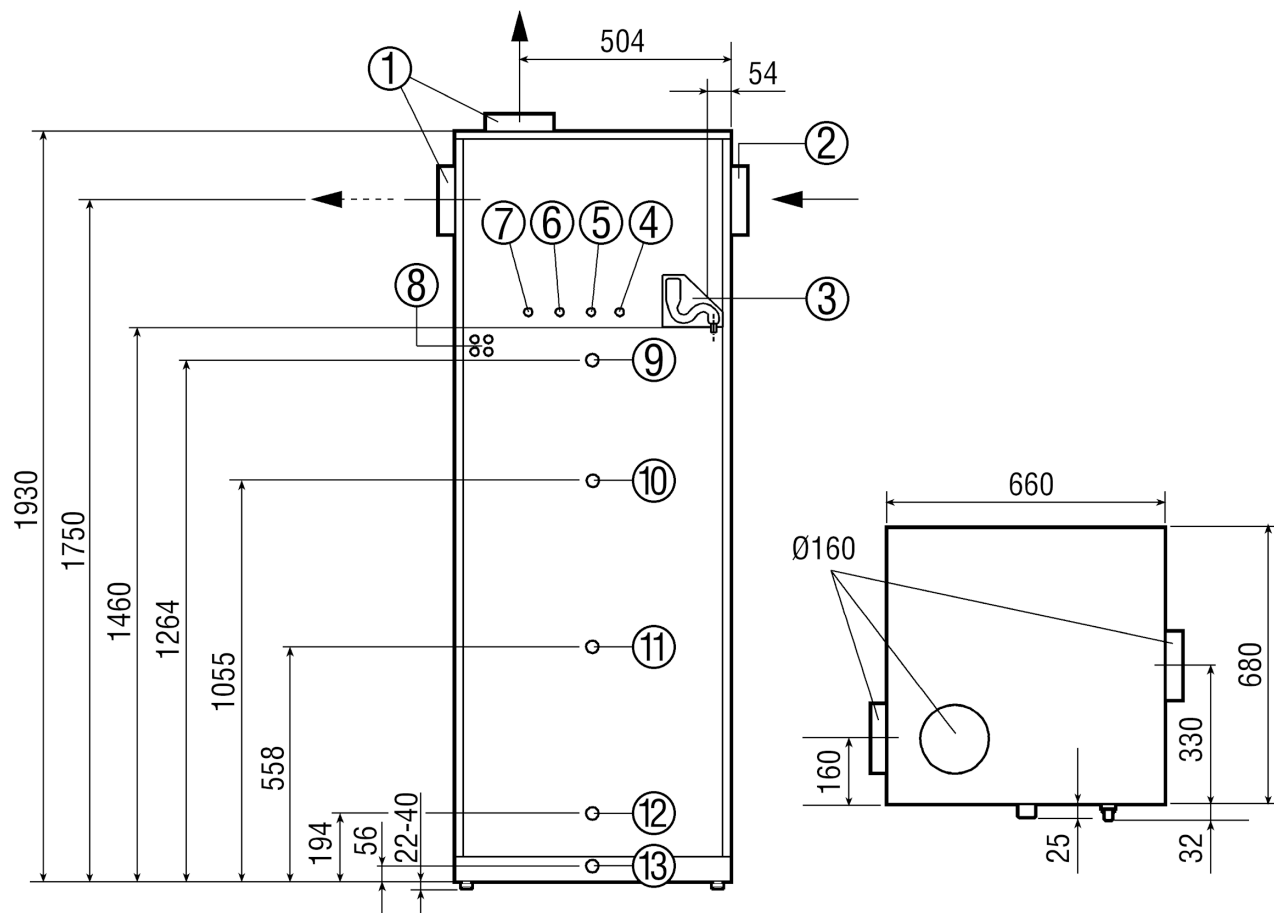
Transfer: Ventilation system with an exhaust air temperature of less than 20°C

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