

**Domestic hot water heat pump
(10 bar)**

WPA 450 ECO

450 LITRE



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- ✓ **Working range (-7 °C to +35 °C)**
- ✓ **No heat transfer losses between heat pump and storage tank**
- ✓ **Tried and tested technology, easy to install, easy to integrate into all systems**
- ✓ **No electrical and refrigeration connection work required**
- ✓ **Wide range of operating options (heating via heat pump or boiler)**
- ✓ **Enables cooling in addition to hot water production, the cooling of a room**
- ✓ **Also designed for multivalent operation designed**

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DRINKING WATER HEAT PUMP

- Operating pressure: 10 bar
- Capacity: 450 L
- High-quality PU foam insulation
- With potential-free switching input for photovoltaic system
- Extremely energy-saving operation
- With 2 connection pipes ø 250 mm on the side (supply air and n extract air)
- The unit is of compact design and ready to plug in
- Operating range (-7 °C to +35 °C)
- Corrosion protection due to high-quality enamelling
- According to DIN 4753
- No heat transfer losses between heat pump and storage tank
- Magnesium anode
- Tried and tested technology, easy to install, easy to integrate in all systems
- Wide range of operating options (heating via heat pump or boiler)

TECHNICAL DATA

■ Heat output heat pump	3.830 W / 7.830 W ²	■ Necessary air flow rate	800 m ³ /h
■ Power consumption heat pump	980 W / 4.980 ²	■ Lower coil heating	surface 1,76 m ²
■ Electric heater	2x 2.000 W	■ Storage tank protection	Magnesium anode
■ COP	3,9 ¹	■ Thermal insulation	50 mm PU
■ Voltage / frequency	230V / 50 Hz	■ Air duct connection	250 mm / max. 25 mm
	400V / 50 Hz	■ Water connection	1"
■ Electrical fuse protection	16 A / 25 A / 3x16A	■ Dimensions (HxD)	2.070x794 mm
■ Refrigerant / filling mass	R 134 A / 1,1 kg	■ Minimum room height	2.500 mm
■ Operating range heat pump	-7 °C + 35 °C	■ Sound power	60 dB(A) ⁴
■ Maximum water temperature	55 °C (65 °C) ³	■ Sound pressure - 1m	49 dB(A)
■ Legionella protection	~ 60 °C		

1 ... according to EN 16147 - air temperature 20 °C, water heating 10 °C to 55 °C, relative humidity 70 %.

2 ... with electric heating

3 ... with electric heating (heat pump operation up to max. 60 °C)

4 ... Distance 1m without air ducts

ECO DESIGN-LABELING

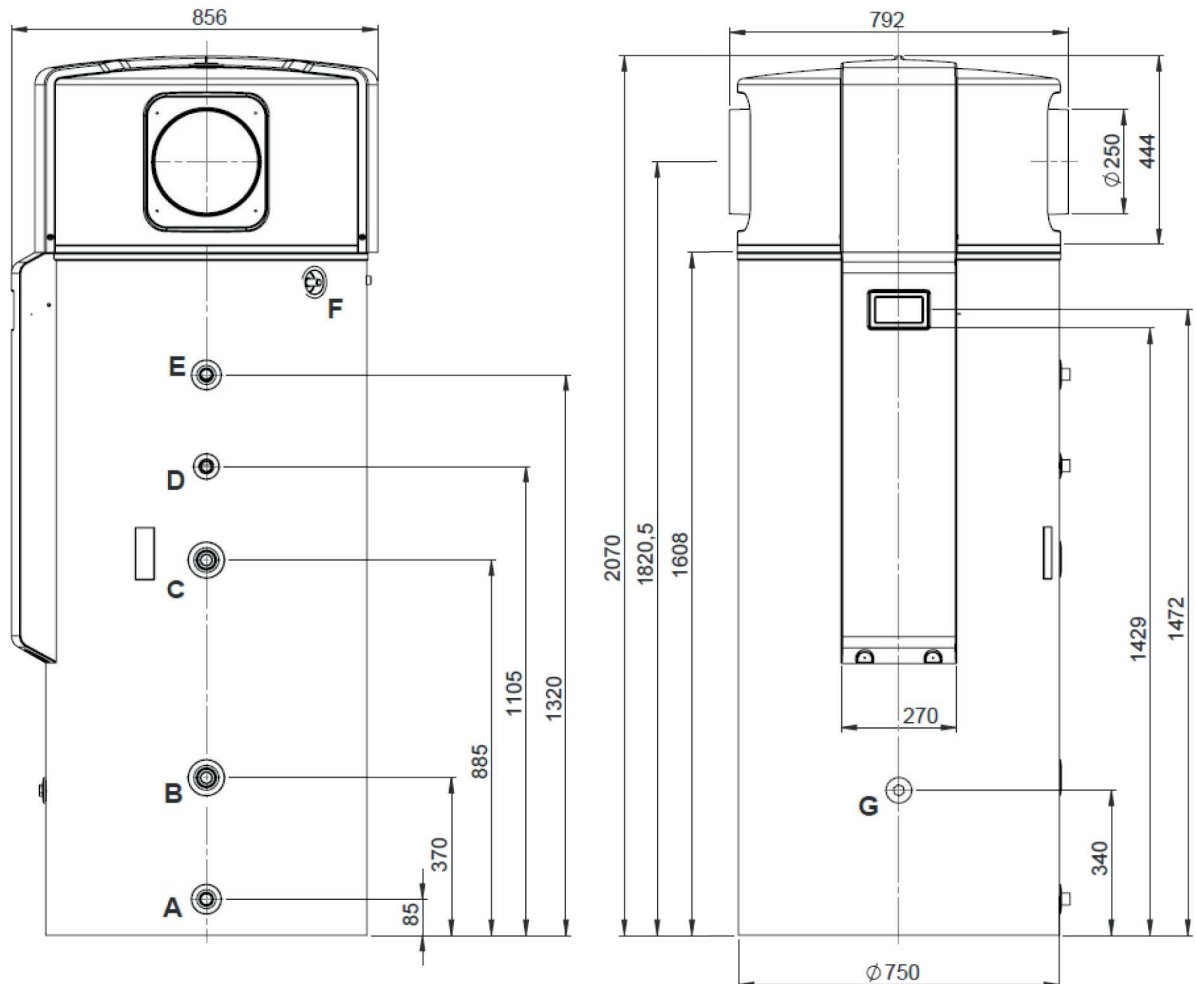
 **7 JAHRE GARANTIE AUF DEN INNENKESSEL**

Type	Heat loss according to EN 12897		Tapping profile	Energy efficiency class
	in kWh/24h	S in watts		
WPA 450 ECO	2,71	112,9	XXL	A+

TECHNISCHE DATEN

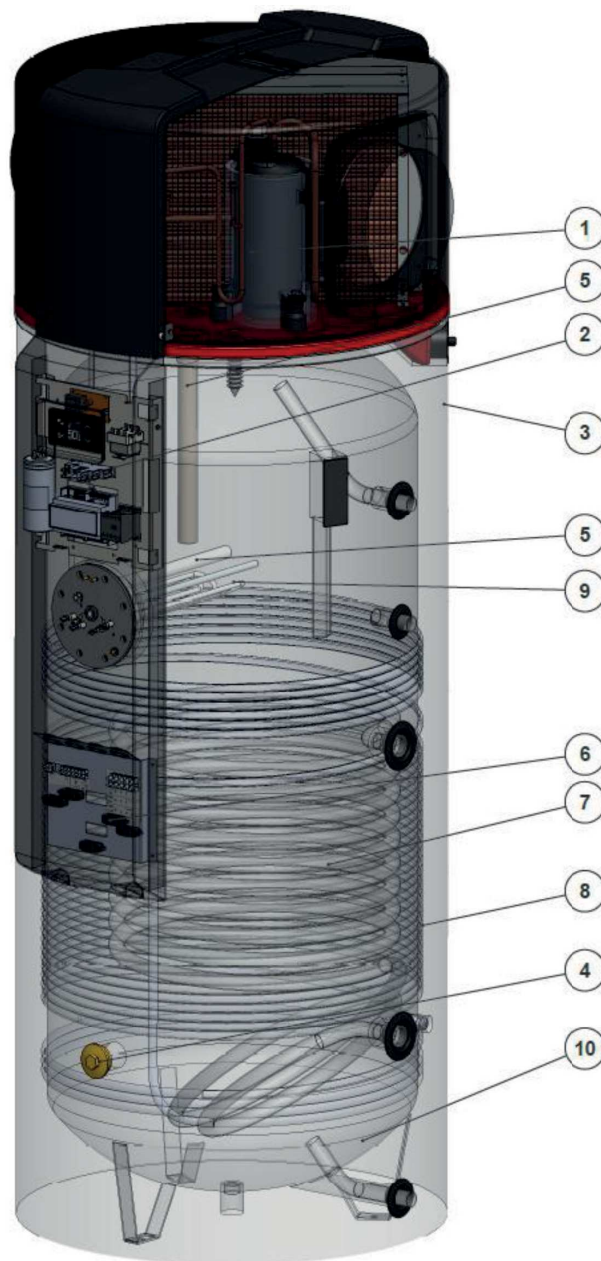
Type	Article no.	Dimensions in mm		COP value*	Heat exchanger area in m ²	Tilt dimension in mm	Weight in kg
		H	D				
WPA 450 ECO	411820	2070	794	3,7	1,76	2220	243

* according to EN 16147: A20/W10-55



- A - Cold water connection G1"
- B - Heating water heat exchanger connection G1" return
- C - Heating water heat exchanger connection G1" flow
- D - Circulation connection - G3/4".
- E - Hot water connection G1"
- F - Drain condensate connection $\varnothing 16$
- G - Auxiliary heating connection G6/4"

DRINKING WATER HEAT PUMP



1 - Heat pump

2 - Controller

3 - Rigid foam insulation 50 mm

4 - Sleeve G 6/4"

5 - Magnesium anode

6 - Connection terminal board

7 - Solar heat exchanger

8 - Condenser

9 - Flange with electric heater and

8 - magnesium anode

10 - Hot water collection tank