

# HEAT PUMP

HOT WATER  
HEAT PUMP  
WPA E-LF  
WPA ECO

NEW



**NEW FOR**  
**2013**



**AE**  
Austria Email

# SERIES WPA ECO

## HEAT PUMP WATER HEATERS

Through the use of very high quality components results in this technically advanced heat pump and storage combination. **An exceptionally high COP value of 4.3 and extended operating range of up to -7 ° C** highlight the outstanding advantages of this high-end product.

### ADVANTAGES:

- NEW**
- Potentially free operation by using its own built-in connection to a photovoltaic system
  - Hot water heat pump (high performance welded pipe with 1.2 m<sup>2</sup> of heat exchanger, integrated heat pump and immersion heater)
  - **Extremely high energy saving performance**
  - Cover with 2 connection pieces Ø 150 mm (supply and exhaust)
  - **Exceptionally high COP value: 4.3 (according to EN 255/3: A20/W15-45)**
  - The units are built in a compact design and plug and play
  - **Significantly extended operating range (-7 ° C to +35 ° C)**
  - Corrosion protection through high-quality enameling according to DIN 4753
  - **No heat transfer losses between the heat pump and storage tank**
  - Tested, proven technology, easy to install, easy to integrate into all heating systems
  - **No electrical connection or refrigeration work required**
  - The tanks are provided with high-quality insulation (PU, 50 mm)
  - **Variety of operating options (heating by heat pump or boiler)**
  - Control of the circulation pump of the boiler by built-in electronics
  - **Combined operation of the heat pump + electric heater or heat pump + boiler**
  - Efficient operation with a minimum of 40 ° C possible, heated by an electric immersion to 65 ° C
  - **In addition to hot water allows the cooling of a room**
  - Automatic switching off the pump at temperatures below -7 ° C

- **Also designed for multi-mode operation**
- Digital temperature display
- Built-in automatic protection against legionella
- Short payback time
- Environmentally friendly
- Robust and extremely user-friendly controller with digital temperature display
- Six simple basic programs can be selected for all modes
- Icing to -7 ° C
- Defrost

### SPECIFICATIONS:

- |                               |                               |
|-------------------------------|-------------------------------|
| ■ Heat pump heating capacity  | 1850 W / 3350 W <sup>2</sup>  |
| ■ Heat pump power consumption | 440 W / 1940 <sup>2</sup>     |
| ■ Electric heating element    | 1500 W                        |
| ■ COP                         | 4,3 <sup>1</sup>              |
| ■ Voltage / frequency:        | 230V / 50 Hz                  |
| ■ Electrical protection       | 16 A                          |
| ■ Refrigerant / filler        | R 134 A / 0.7 kg              |
| ■ Operating temperature range | -7 ° C + 35 ° C               |
| ■ Maximum water temperature   | 55 ° C to 65 ° C <sup>3</sup> |
| ■ Legionella protection       | ~ 60 ° C                      |
| ■ Required airflow            | 700 m <sup>3</sup> / h        |
| ■ Length of cable             | 2 m                           |
| ■ Tank protection             | with magnesium anode          |
| ■ 50 mm PU insulation foam    |                               |
| ■ Air duct connection         | 150 mm / max. 10 m            |
| ■ Water connection            | 1"                            |
| ■ Minimum ceiling height      | 2200 mm / 2000 mm             |
| ■ Sound level                 | 52 dB (A)                     |

1 ...according to EN 255 (A20 / W45); 2 ...with electric heating; 3 ...with electric heating (heat pump to max. 60 ° C)

Type	Nominal capacity l	Heating surface m <sup>2</sup> Register	Outer diameter D mm	Height H mm	Register Contents l	Weight* kg	Topple mm	Standby energy consumption value Kwh / 24h**
WPA 302 ECO	300	1,2	670	1854	7,5	175	1960	2,3

\* Boxed \*\*According to EN 60379

# SERIES WPA ECO HEAT PUMP WATER HEATERS



**NEW**

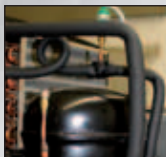
**More energy-efficient.**

- Extremely high energy saving operation
- Exceptionally high COP value of 4.3 (according to EN 255/3: A20/W15-45)
- Significantly extended operating range (-7 °C to +35 °C)
- No heat transfer losses between the heat pump and storage tank
- Tested, proven technology, easy to install, easy to integrate into all systems
- No electrical connection and refrigeration work required
- Variety of operating options (heated by heat pump or boiler)
- In addition to hot water allows the cooling of a room
- Also designed for multi-mode operation

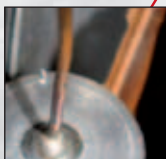
Austria Email DHW pump WPA ECO 302 offers safety and economy tool!



With the high efficiency and high quality of the heat pump compressor, it allows both economic operation and high water temperatures.



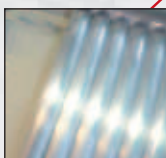
The thermal expansion capillary leads to better performance and responsiveness of the system under all operating conditions.



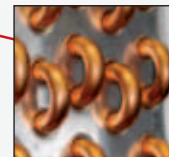
Clear operation via the controller. Control of up to three different heat sources.



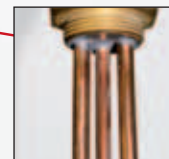
High quality cooling circuit with external, flat extruded aluminum tube. Thus, the refrigerant cannot make contact with the water.



Microprocessor controlled ECO Fan with minimum energy consumption and virtually silent running performance.



Evaporator with increased distance between the plates and optimized refrigerant distribution - problem-free operation even at low air temperatures.



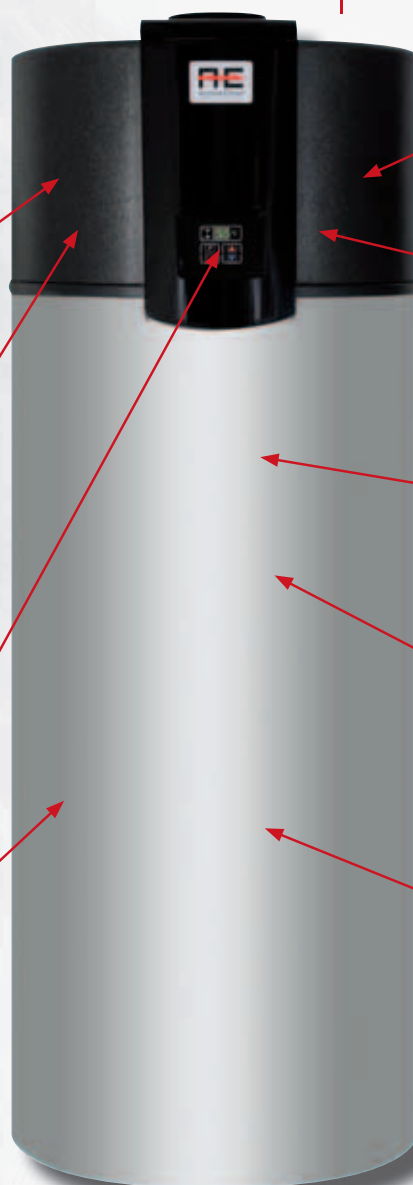
1500 Watt electric heating element to support the heating when the room temperature is too low or for short-term increased water consumption.



Magnesium anode according to DIN 4753 for perfect corrosion protection.



A quality enameled tube heat exchanger allows for multi-mode operation with various external sources (oil, firewood, gas, solar).



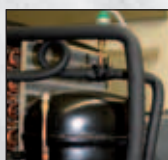
# HEAT PUMP WATER HEATERS

## WPA SERIES E-LF

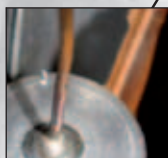
Austria Email DHW pump WPA 302 E-LF provides safety and economy too!



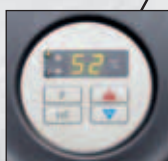
With the high efficiency and high quality of the heat pump compressor, it allows both economic operation and high water temperatures.



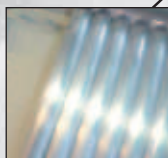
The thermal expansion capillary leads to better performance and responsiveness of the system under all operating conditions.



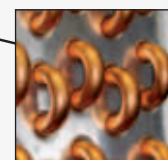
Clear operation via the controller. Control of up to three different heat sources.



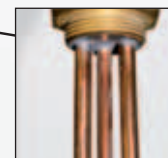
High quality cooling circuit with external, flat extruded aluminum tube. Thus, the refrigerant cannot make contact with the water.



Microprocessor controlled fan with low power consumption and virtually silent operation



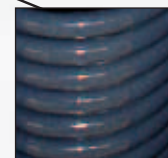
Evaporator with increased distance between the plates and optimized refrigerant distribution - problem-free operation even at low air temperatures.



1500 Watt electric heating element to support the heating when the room temperature is too low or for short-term increased water consumption.



Magnesium anode according to DIN 4753 for perfect corrosion protection.



A quality enamelled tube heat exchanger allows for multi-mode operation with various external sources (oil, firewood, gas, solar).



# HEAT PUMP WATER HEATERS

## WPA SERIES E-LF

This high quality stand-alone cylinder with integral air-water heat pump is specially designed for hot water. By use of the existing energy present in the ambient air, they offer the most energy efficient form of hot water. New in this series: The WPA 230 E-LF Heat Pump.

### ADVANTAGES:

- Hot water heat pump (welded storage tank with high performance pipe and 1.2 m<sup>2</sup> / 0.75 m<sup>2</sup> heat exchanger surface, integrated heat pump and electric immersion heater)
- Cover with 2 connection pieces Ø 150 mm (supply and exhaust)
- No heat transfer losses between the heat pump and storage
- Tested, proven technology, easy to install, easy to integrate into all heating systems
- No refrigeration or electrical connection work necessary
- The unit is built in a compact design and plug and play ready
- Corrosion protection in accordance with DIN 4753 using quality enamel and magnesium anode
- Storage tank equipped with high-quality insulation (PU, 50 mm)
- Variety of operating options (heating by heat pump or boiler)
- Combined operation of the heat pump + electric heater or heat pump + boiler
- Control of the boiler circulation pump by built-in electronics
- Efficient operation with a minimum of 40 ° C, heated by electric immersion to 65 ° C
- Automatic switching off the pump at temperatures below 7 ° C
- Digital temperature display
- Built-in automatic protection against legionella
- Allows the cooling of a room in addition to hot water
- Short payback time
- Environmentally friendly
- Robust and extremely user-friendly controller with digital temperature display

- Six simple basic programs can be selected for all modes
- Also designed for multi-mode operation
- Frost protection

### SPECIFICATIONS:

■ Heat pump heating capacity	1830 W / 3330 W <sup>2</sup>
■ Heat pump power consumption	550 W / 2050 W <sup>2</sup>
■ Electric heating element	1500 W
■ COP	3,6 <sup>1</sup>
■ Voltage / frequency:	230V / 50 Hz
■ Electrical protection	16 A
■ Refrigerant / filler	R 134 A / 0.65 kg
■ Operating temperature range	7 ° C + 35 ° C
■ Maximum water temperature	55 ° C to 65 ° C <sup>3</sup>
■ Legionella protection	~ 60 ° C
■ Required airflow	500 m <sup>3</sup> / h
■ Length of cable	2 m
■ Tank protection	magnesium anode
■ 50 mm PU insulation foam	
■ Air duct connection	150 mm / max. 10 m
■ Water connection	1"
■ Sound level	52 dB (A)

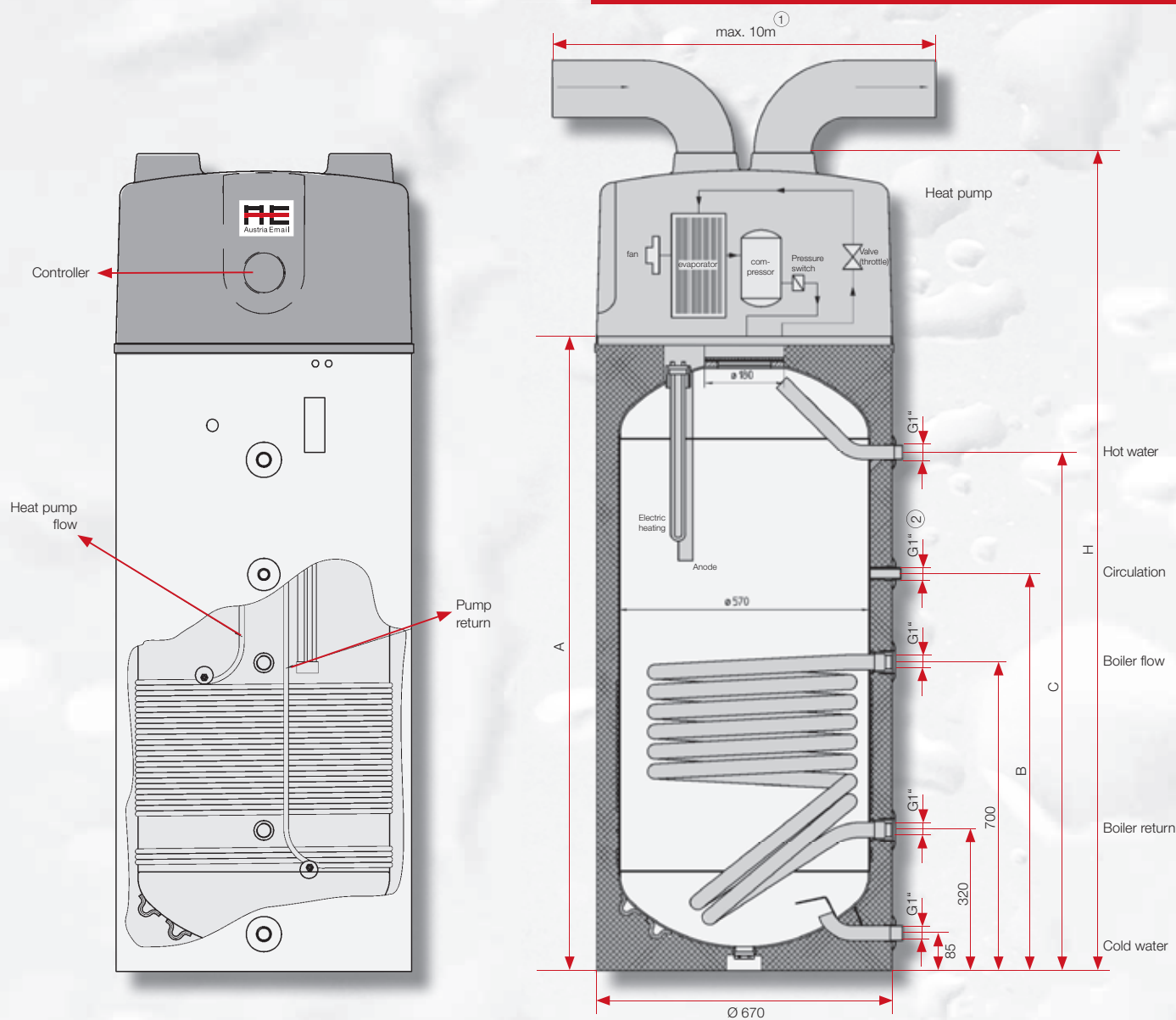
1 ...according to EN 255 (A20 / W45); 2 ...with electric heating; 3 ...with electric heating (heat pump to max. 60 ° C)

Type	Nominal capacity l	Heating surface m <sup>2</sup> Register	Outer diameter D mm	Height H mm	Weight* kg	Topple mm	Minimum ceiling height mm	Standby energy consumption value Kwh / 24h**
WPA 230 E-LF	230	0,75	670	1554	140	1690	2000	1,8
WPA 302 E-LF	300	1,2	670	1854	175	1960	2200	2,3

\* Boxed \*\*According to EN 60379

# TECHNICAL REPRESENTATIONS

## WPA E-LF, WPA ECO



- ① with pipes longer than 10 metres, a commercially available pipe fan is provided
- ② 3/4" in WPA 230 E-LF

Type	Dimensions in mm			
	A	B	C	H
WPA 230 E-LF	1138	790	875	1554
WPA 302 E-LF	1438	900	1175	1854
WPA 302 ECO	1438	900	1175	1854

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