

HEAT PUMP

HOT WATER
HEAT PUMP

WPA 302 E-LF

WPA 302 ECO **NEW**



INNOVATION
2012



RE
Austria Email

WPA 302 ECO HOT WATER HEAT PUMP **NEW**



NEW

**Even greater
energy saving.**

- Extreme energy-saving operation
- Exceptionally high COP-value of 4.3 (in accordance with EN 255/3: A20/W15-45)
- Significantly extended working range (-7°C to +35°C)
- No heat transfer losses between heat pump and storage tank
- Tested and proven technology, easily assembled, simply integrated in all systems
- No electrical or refrigeration connection work is required
- Wide variety of application options (Heating via heat pump or boiler)
- In addition to hot water, facilitates the processing for the cooling of a room
- Also conceived for multivalent operation

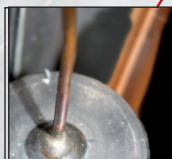
Austria Email hot water pump WPA 302 ECO combines safety and economy!



A high-quality compressor makes the heat pump particularly efficient. It permits efficient operation and high hot water temperatures.



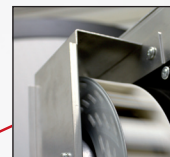
The thermal expansion capillary tube boosts performance and reactions in the system under all operating conditions.



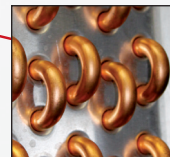
Clear operation of the controller. Control of up to three different heat sources.



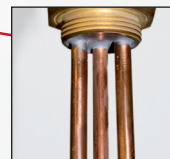
High-quality cooling circuit, with an external flattened aluminium tube. That means that coolant can never enter the hot water area.



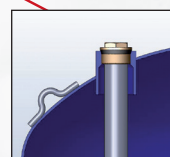
Microprocessor-controlled ECO fan with minimal energy consumption and virtually silent operation.



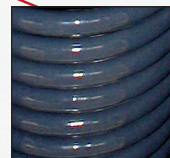
Evaporator with increased space between the plates and optimised coolant distribution – trouble free operation even at low air temperatures.



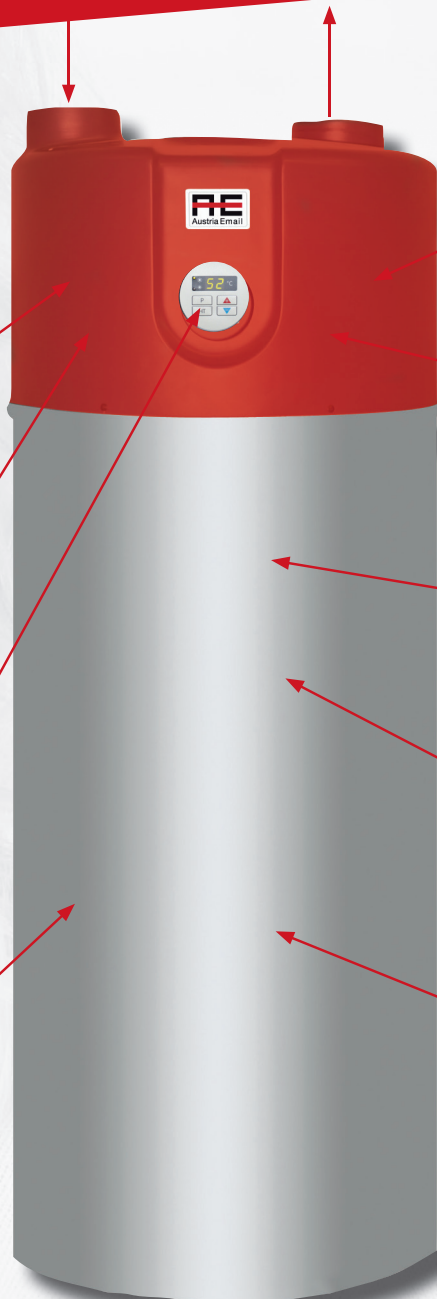
1500 watt electric heating rod for back-up heating at low room temperatures or short-term high water consumption.



Integrated, maintenance-free external current anode. Electronically-controlled long-lasting corrosion protection.



A high-quality enamelled straight tube heat exchanger allows multivalent operation with various external sources (heating oil, firewood, gas, solar).



WPA 302 ECO HOT WATER HEAT PUMP **NEW**

The combination of particularly high-quality components results in a heat pump storage tank which combines a range of technological state-of-the-art features. **Its exceptionally high COP value of 4.3, the integrated external current anode and its working range expanded to -7°C are the exceptional advantages of this high-end product.**

ADVANTAGES:

- Hot water heat pump (freestanding cylinder with welded high performance heat exchanger with a heating surface of 1.2 m², integrated heat pump and electric heater)
- Extremely energy-saving operation (COP 4.3)
- Extended operating range up to -7°C
- Cover with 2 connection nozzles Ø 150 mm (air inlet and outlet)
- No heat transfer losses between the heat pump and cylinder
- Tested proven technology, easy to install, simple to integrate in all systems
- No electric or cooling connection work required
- The device is compact and designed to be ready to plug in
- Corrosion protection via high-quality enamelling per DIN 4753
- Maintenance-free external current anode, makes anode replacement unnecessary
- Automatic function test of the external current anode
- The cylinder is fitted with high-quality insulation (PU, 50 mm)
- Varied operating options (heating via heat pump or boiler)
- Combined operation of heat pump and electric back-up heating or heat pump and boiler possible
- Control of the circulation pump via integrated electronics
- Economy mode possible at 40°C minimum, heating to 65° via electric heating possible
- Automatic deactivation of the heat pump at temperatures under -7°C

- Digital temperature display
- Integrated automatic legionella protection
- In addition to water heating, can also be used for indoor cooling
- Short payback time
- Completely environmentally-friendly
- Robust and extremely easy-to-operate controller with digital temperature display
- Six easy-select basic programs for all modes
- Also designed for multivalent operation
- Frost protection to -7°C
- Defrost function

TECHNICAL DATA:

- | | |
|----------------------------------|------------------------------|
| ■ Heat pump heating power | 1850 W / 3350 W ² |
| ■ Heat pump power consumption | 440 W / 1940 ² |
| ■ Electric heating rod | 1500 W |
| ■ COP | 4.3 ¹ |
| ■ Voltage / Frequency | 230V / 50 Hz |
| ■ Electric fuse | 16 A |
| ■ Coolant / Filler | R 134 A / 0.7 kg |
| ■ Heat pump working range | -7°C + 35°C |
| ■ Maximum water temperature | 55 °C (65°C) ³ |
| ■ Legionella protection | ~ 60 °C |
| ■ Air flow required | 500 m ³ /h |
| ■ Length of the connection cable | approx. 2 m |
| ■ Heat exchanger surface | 1.2 m ² |
| ■ Cylinder protection | External current anode |
| ■ Thermal insulation | 50 mm PU |
| ■ Air duct connection | 150 mm / max. 10 m |
| ■ Water connection | 1" |
| ■ Dimensions (HxD) | 1854x670 mm |
| ■ Minimum room height | 2200 mm |

1 ...per EN 255 (A20/W45); 2 ...With electric heater; 3 ... With electric heater (heat pump operation to max. 60°C)

Model	Nominal capacity l	Heating surface pipe array m ²	External diameter D mm	Device height H mm	Weight* kg	Diagonal height mm	Standby energy consumption kWh/24**
WPA 302 ECO	300	1,2	670	1830	175	1960	2,3

* incl. packaging

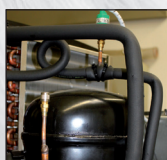
**per EN 60379

WPA 302 E-LF HOT WATER HEAT PUMP

Austria Email hot water pump WPA 302 E-LF combines safety and economy!



A high-quality compressor makes the heat pump particularly efficient. It permits efficient operation and high hot water temperatures.



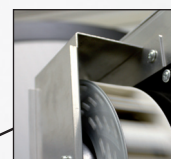
The thermal expansion capillary tube boosts performance and reactions in the system under all operating conditions.



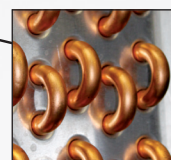
Clear operation of the controller. Control of up to three different heat sources.



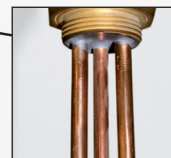
High-quality cooling circuit, with an external flattened aluminium tube. That means that coolant can never enter the hot water area.



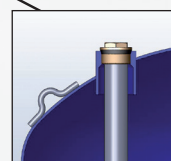
Microprocessor-controlled ECO fan with minimal energy consumption and virtually silent operation.



Evaporator with increased space between the plates and optimised coolant distribution – trouble free operation even at low air temperatures.



1500 watt electric heating rod for back-up heating at low room temperatures or short-term high water consumption.



Magnesium sacrificial anode per DIN 4753 for perfect corrosion protection.



A high-quality enamelled straight tube heat exchanger allows multi-valent operation with various external sources (heating oil, firewood, gas, solar).

WPA 302 E-LF HOT WATER HEAT PUMP

This high-quality freestanding cylinder with integrated air-water heat pump is designed specifically for heating domestic water. It uses the energy available in the ambient air and thus provides the most energy-economical form of domestic water heating.

ADVANTAGES:

- Hot water heat pump (freestanding cylinder with welded high performance heat exchanger with a heating surface of 1.2 m², integrated heat pump and electric heater)
- Cover with 2 connection nozzles Ø 150 mm (air inlet and outlet)
- No heat transfer losses between the heat pump and cylinder
- Tested proven technology, easy to install, simple to integrate in all systems
- No electric or cooling connection work required
- The device is compact and designed to be ready to plug in
- Corrosion protection via high-quality enamelling per DIN 4753 and a magnesium sacrificial anode
- The cylinder is fitted with high-quality insulation (PU, 50 mm)
- Varied operating options (heating via heat pump or boiler)
- Combined operation of heat pump and electric back-up heating or heat pump and boiler possible
- Control of the circulation pump via integrated electronics
- Economy mode possible at 40°C minimum, heating to 65° via electric heating possible
- Automatic deactivation of the heat pump at temperatures under 7°C
- Digital temperature display
- Integrated automatic legionella protection
- In addition to water heating, can also be used for cooling
- Short payback time
- Completely environmentally-friendly

- Robust and extremely easy-to-operate controller with digital temperature display
- Six easy-select basic programs for all modes
- Also designed for multivalent operation
- Frost protection

TECHNICAL DATA:

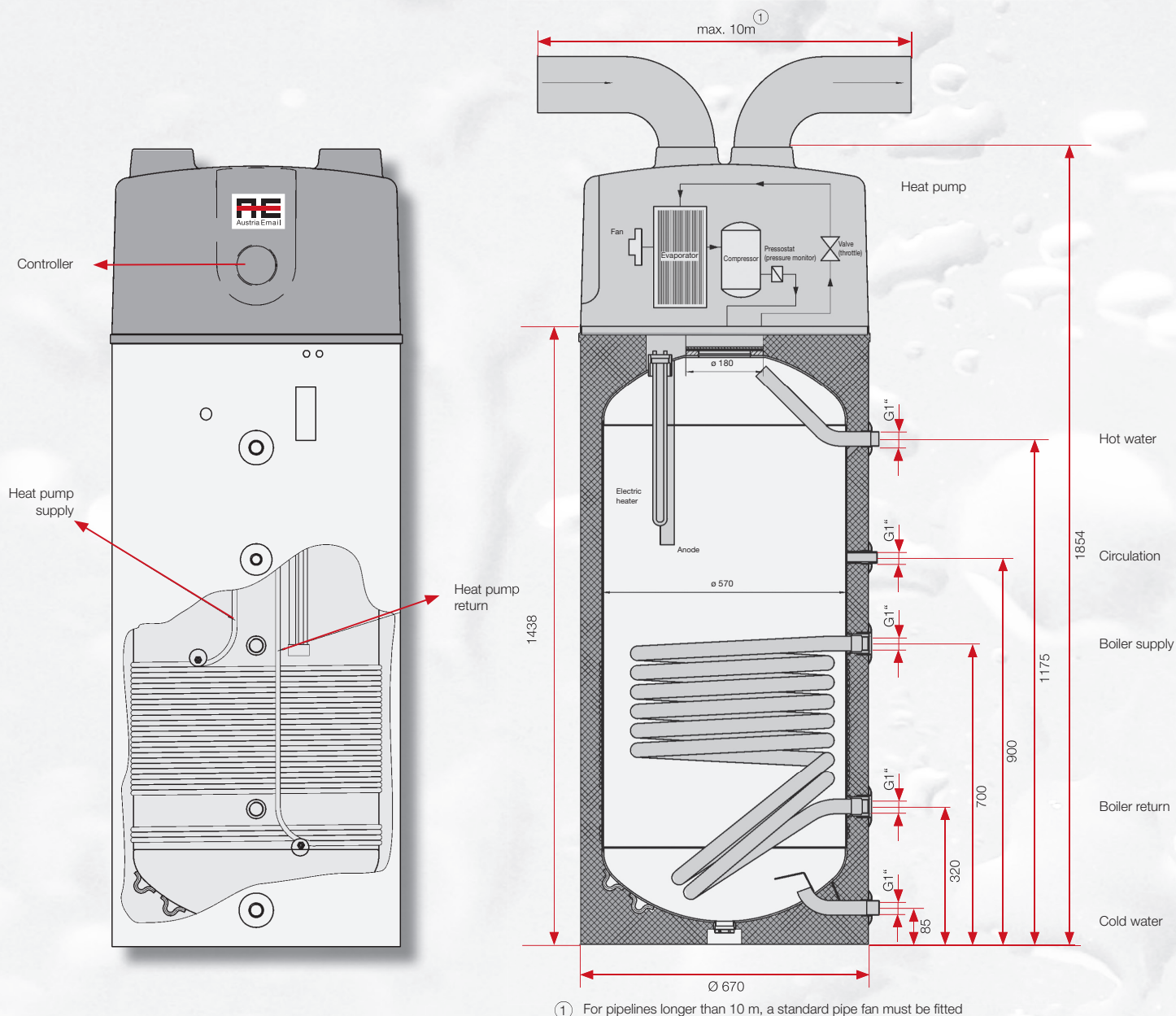
- | | |
|----------------------------------|------------------------------|
| ■ Heat pump heating power | 1620 W / 3120 W ² |
| ■ Heat pump power consumption | 520 W / 2020 W ² |
| ■ Electric heating rod | 1500 W |
| ■ COP | 3.2 ¹ |
| ■ Voltage / Frequency | 230V / 50 Hz |
| ■ Electric fuse | 16 A |
| ■ Coolant / Filler | R 134 A / 0.7 kg |
| ■ Heat pump working range | 7°C + 35°C |
| ■ Maximum water temperature | 55 °C to 65 °C ³ |
| ■ Legionella protection | ~ 60 °C |
| ■ Air flow required | 500 m ³ /h |
| ■ Length of the connection cable | approx. 2 m |
| ■ Heat exchanger surface | 1.20 m ² |
| ■ Cylinder protection | Magnesium sacrificial anode |
| ■ Thermal insulation | 50 mm PU |
| ■ Air duct connection | 150 mm / max. 10 m |
| ■ Water connection | 1" |
| ■ Dimensions (HxD) | 1854x670 mm |
| ■ Minimum room height | 2200 mm |

1 ...per EN 255 (A20/W45); 2 ...With electric heater 3 ...With electric heater (heat pump operation to max. 60°C)

Model	Nominal capacity l	Heating surface pipe array m ²	External diameter D mm	Device height H mm	Weight* kg	Diagonal height mm	Standby energy consumption kWh/24h**
WPA 302 E-LF	300	1,2	600	1854	175	1960	2,3

* incl. Verpackung **per EN 60379

TECHNICAL DIAGRAMS FOR WPA 302 E-LF; WPA 302 ECO



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