

## ED 300 Series Domestic Hot Water Heat Pump

We maximize savings for you and the environment.

Our innovative ECO Design DHW heat pumps are the most economical, ecological and smart way to produce hot water for your home with renewable energy.

Save up to 75% on your yearly energy consumption – in comparison with any traditional boiler – without any loss in comfort.

How does it work? The heat pump uses the energy content freely available in “air” and transforms it to a higher temperature level. Depending on the air temperature, 1kWh of electrical input will give you 4 kWh of thermal energy.

**Smart and Flexible Design:** Reduce your costs even further by connecting your PV Installation through our Smart Grid interface and/or by linking your thermal solar installation with the optionally available extra heat exchanger. Maximal Savings and Maximal Comfort.

### Features ED 300 Series

The ED 300 is designed for functionality and for a long lifespan:

- **Ultra-Robust HD-Steel Storage Tank and Premium Internal Glass Coating**
- **4<sup>th</sup> Gen High-Performance CFC-Free Insulation.**
- **Standby Heat loss only 20W!**
- The **270-litre tank** covers the needs for your whole family 24/7.
- **Permanent Protection against Corrosion:** thanks to a generously dimensioned anode (Magnesium with automatic wear indicator).
- Certified HP Efficiency - **COP 3,62.**
- Nominal Pressure: 10 bar (tested at 13 bar).
- **Very Silent Operation** (Perception Optimized).
- **3 Installation Modes:** Ambient Air, External Air, Extracted Air.
- The **extended operating range** (incoming air temperature) from -10°C to +35°C guarantees full year functioning for all operating modes.
- **Sophisticated Electronic Control Unit.**
- **Useful Functions:** BOOST, TIMER, HOLIDAY, LEGIONELLA PROTECTION, ADJUSTABLE FROST PROTECTION.
- **Automatic Hot Gas De-icing** Function – increases efficiency.
- **CAF:** continuous air flow, a function, which operates the fan independently of the heat pump for controlled ventilation.
- **Easy handling** for the user; large 2-line display, plain text, intuitive one button operation.
- **Smart Grid Interface:** Make most of your photovoltaic power and/or multi-tariff counters. The only control with 3 distinct energy levels and adjustable savings potential.
- **Plug n' Play, Fast and Easy Installation** (extremely installer friendly)



### Optional

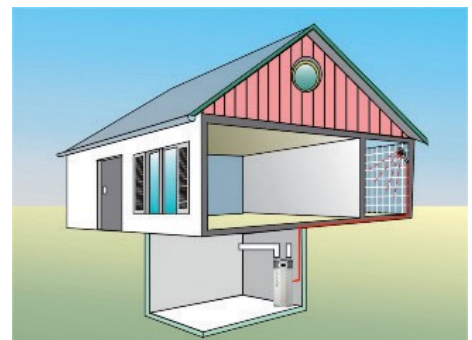
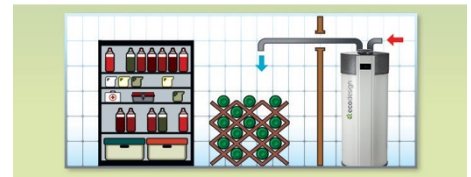
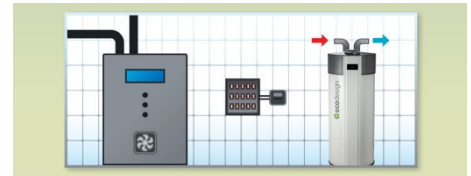
- o **1 or 2 additional internal heat exchangers** for the combination with a solar installations and/or other external heat sources like boilers (gas, oil, wood, heat recuperation).

## Technical Specifications

Model	ED 300	ED 300 WT	ED 300 2WT
<b>Performance Indicators</b> according to EN16147:2011			
COP (L20/W10 – S5)* - ambient air - tap profile XL	3.62		
Energy Efficiency Class (average climate zone)	<b>A+</b>		
Energy efficiency index	146%		
Standby power	20 W		
DHW production performance	950 l / 24 h		
Sound pressure level** free distance 2m, height 1m	37 dB(A)		
<b>Heat Pump</b>			
Thermal power (Compressor)	1,421 kW		
Max. thermal power	3,421 kW		
Air flow min./max.	200 - 300 m <sup>3</sup> /h		
Refrigerant	R134a - 0,9 kg		
<b>Operation</b>			
DHW temperature range	5°C to +62°C		
Max. storage tank temperature	65°C		
Operation range (air inlet)	-10°C to +35°C		
<b>Dimensions</b>			
Height	1768 mm		
Diameter	707 mm		
Net weight	130 kg	153 kg	175 kg
Signal anode	Magnesium R5/4 "		
<b>Electrical Data</b>			
Voltage/frequency	230V AC / 50 Hz		
Fuse	13 A		
Protection index	IP 21		
Power input compressor	0,395 kW		
Power auxiliary heating	2,0 kW		
<b>Storage Tank</b>			
Material	HD-steel with "Premium" glass coating inside		
Volume	270 l	258 l	250 l
Test-/ nominal pressure	1,3 MPa = 13bar / 1,0 MPa = 10 bar		
Surface internal heat-exchanger(s)	1,0 m <sup>2</sup> 1,5 m <sup>2</sup> + 0,5 m <sup>2</sup>		
<b>Connector Dimensions</b>			
Cold Water	R 1"		
DHW	R 1"		
Recycle loop	R 3/4"		
Heat-exchanger(s)	R 1"		
Condensate discharge	R 1/2"		
Air ducts	160 mm		

\* WPZ certificate # B-119-17-03, Version 2 /according to EN16147:2011

\*\* tested on test rig according to EN ISO 743-1



## Transport and Installation

ED 300 is designed to facilitate your installers work

- ED 300 can be transported in vertical and horizontal position.
- A large integrated handle and a removable support make it easy to manipulate the device.
- The compact form and its low height make sure that your ED 300 can be installed in practically any locale and can replace your traditional boiler.
- The ED 300 is « Plug n' Play ». The pre-configured settings ensure that your heat pump is operational out of the box.

