

ED 400 Series Domestic Hot Water Heat Pump

We maximize savings for you and the environment.

Our innovative ED 400 DHW heat pump is 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 ED 400 uses the energy content 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.

Main Features ED 400

The ED 400 series is designed for functionality and for a long lifespan:

- **Ultra-Robust HD-Steel Storage Tank** and **Premium Internal Glass Coating**
- **4th Gen High-Performance CFC-Free Insulation.**
- **Standby Heat loss only 28W!**
- The giant **395l tank** covers the needs for your whole family 24/7
- Up to **1400l of DHW** per day.
- **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

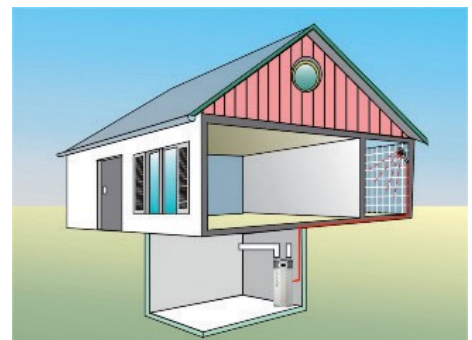
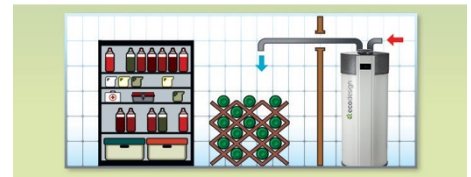
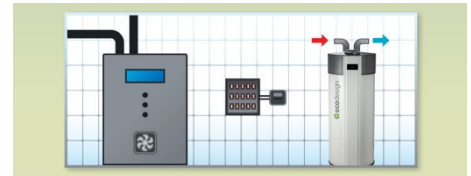
- o **1 or 2 additional internal heat exchangers** for the combination with a solar installations and/or other external heat sources like boilers (gas, oil, wood, heat recuperation).

Technical Specifications

| Model | ED 400 | ED 400 WT | ED 400 2WT |
|---|---|---|------------|
| Performance Indicators according to EN16147:2011 | | | |
| COP (L20/W10 – 55)* - ambient air - tap profile XL | 3.15 | | |
| Energy Efficiency Class (average climate zone) | A | | |
| Energy efficiency index | 127% | | |
| Standby power | 29 W | | |
| DHW production performance | 1400 l / 24 h | | |
| Sound pressure level** free distance 2m, height 1m | 37 dB(A) | | |
| Heat Pump | | | |
| Thermal power (Compressor) | 2,64 kW | | |
| Max. thermal power | 4,64 kW | | |
| Air flow min./max. | 200 m ³ /h - 300 m ³ /h | | |
| Refrigerant | R134a - 1,4 kg | | |
| Operation | | | |
| DHW temperature range | 5°C to +62°C | | |
| Max. storage tank temperature | 65°C | | |
| Operation range (air inlet) | -10°C to +35°C | | |
| Dimensions | | | |
| Height | 1916 mm | | |
| Diameter | 707 mm | | |
| Net weight | 136 kg | 169 kg | 184 kg |
| Signal anode | Magnesium R 5/4 " | | |
| Electrical Data | | | |
| Voltage/frequency | 230 V/50 Hz | | |
| Fuse | 13 A | | |
| Protection index | IP 21 | | |
| Power input compressor | 0,707 kW | | |
| Power auxiliary heating | 2,0 kW | | |
| Storage Tank | | | |
| Material | HD-Steel with Premium Internal Glass Coating | | |
| Volume | 395 l | 373 l | 367 l |
| Test-/ nominal pressure | 1,3 Mpa = 13bar / 1,0 Mpa = 10 bar | | |
| Surface internal heat-exchanger(s) | 1,0 m ² | 1,5 m ² + 0,5 m ² | |
| | 5,91 L | 6,57 L + 3,83 L | |
| Connector Dimensions | | | |
| Cold Water | R 1" | | |
| DHW | R 1" | | |
| Recycle loop | R 1" | | |
| Heat-exchanger(s) | R 3/4" | | |
| 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 400 is designed to facilitate your installers work

- ED 400 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 allow the ED 400 to be installed in virtually any locale and can replace your traditional boiler without a problem.
- The ED 400 is « Plug n' Play ». Pre-configured settings ensure that your heat pump is operational out of the box.

