

Thermodynamic solar equipment

THERMBOIL E+I SERIES

Thermodynamic solar equipment for domestic hot water

The **THERMBOIL E+I** is an innovative water heater, based on the system of heat pump which uses a solar panel as system of evaporation. Furthermore, the system is capable of absorbing the solar and ambient energy all year long, even during the cold period.

The got energy is passed on in the water via a condenser surrounding the outside of the tank.

When the exterior conditions are very critical (very low temperatures), a forced evaporator comes into operation which is included with the equipment. In this way, if the evaporation in the panel has not been sufficient, the forced evaporator comes into motion, only in said more critical conditions.

SANITARY HOT WATER AT 55°C

TECHNICAL CHARACTERISTICS THERMBOIL TB E+I

Model	TB100E+I	TB200E+I	TB250E+I	TB300E+I
Mean thermal capacity (only thermodynamic) (W)	2000 W			
Power consumed range (thermodynamic) (W)	300-500 W			
Maximum power consumed (W)	2000 W			
Voltage / frequency	230 V / 1 ph / 50 Hz			
Ambient temperature range (°C)	5°C-45°C			
COP range	3-7			
Accumulator volume (L)	100	200	250	300
Approx. weight of equipment when empty (kg)	70	85	105	120
ACS temperature range with thermodynamics (°C)	45-55°C*			
Maximum working pressure (bar)	6 bar			
Refrigerant fluid	R134a			
Cold/hot water input/output connections (")	3/4			
Thermodynamic panel connections (")	1/4-3/8			
Power of double ventilator	45W			

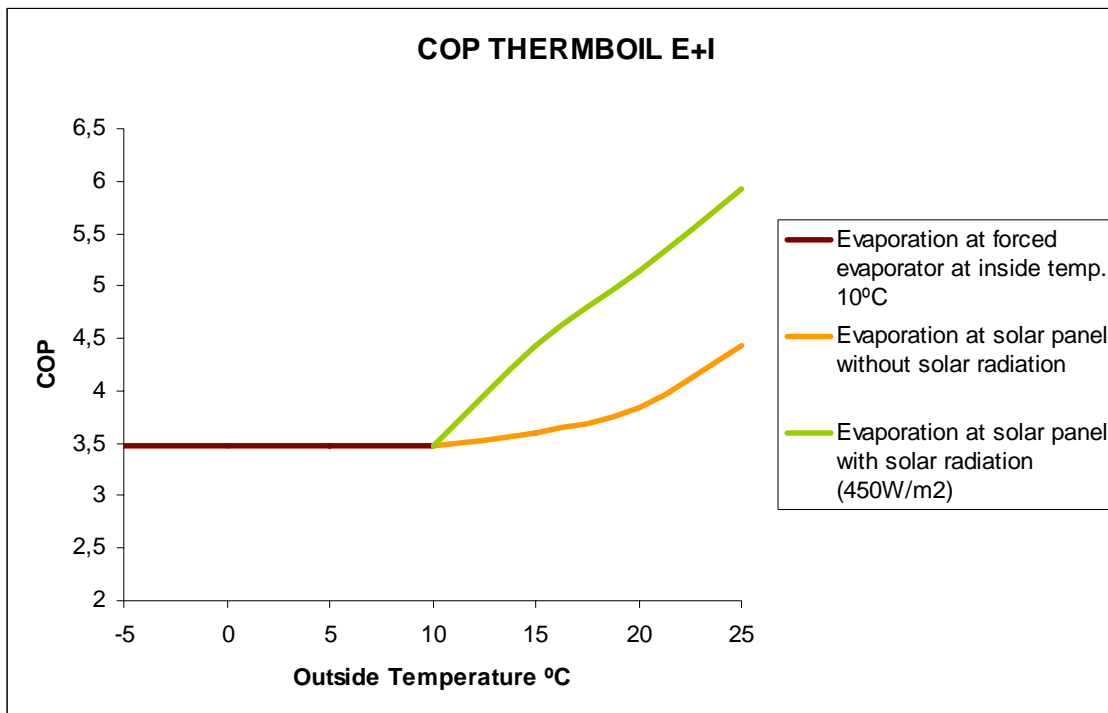
TECHNICAL SPECIFICATIONS

- Water heater for heat pump with thermodynamic panels integrated into the equipment.
- Stainless steel tank
- Compact unit, steel carcass lacquered.
- High-efficiency compressor
- Ecological cooling liquid R134 a.
- Aluminum condenser.
- Isolating injected polyurethane 40 kg /m.
- System of protection against high pressures and temperatures of functioning.
- Thermostatic expansion valve.
- Auxiliary electric system.
- All the equipments are tested in factory before sending.

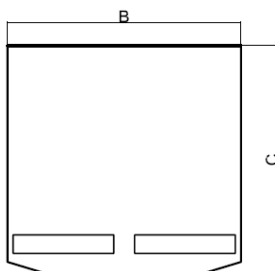
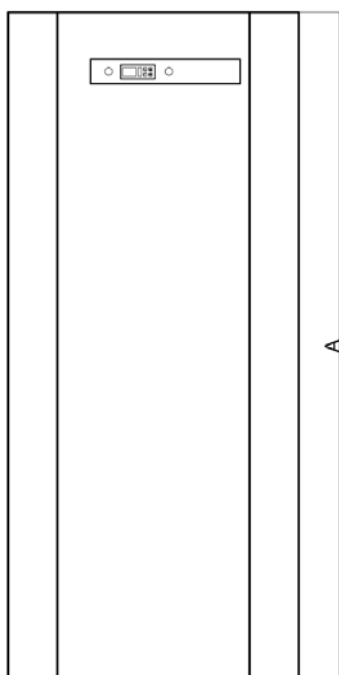


PERFORMANCE DATA

Average condensation temperature 50°C

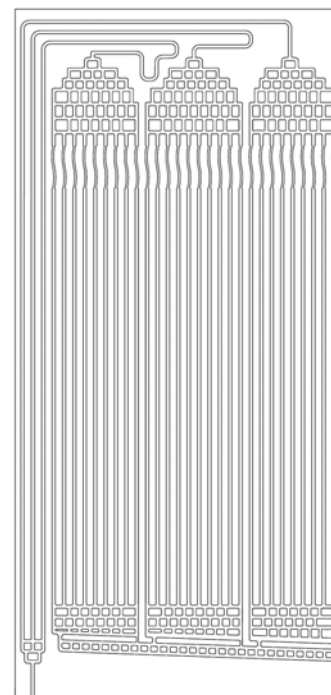


SYSTEM DIMENSIONS



Model	A(mm)	B(mm)	C(mm)
TB100	910	590	575
TB200	1360	590	575
TB250	1678	545	575
TB300	1925	590	575

THERMODYNAMIC PANEL DIMENSIONS



1700 x 800x 25 mm

