

Thermodynamic equipment

THERMBOIL I SERIES

Thermodynamic compact equipments with use of the ambient energy, conceived to produce some hot water.

The THERMBOIL I is an innovative water heater, based on the system of the heat pump capable of getting the ambient energy to warm the water in an effective way, with consumption reduced with regard to the traditional systems. The obtained return is until 20 % upper to the thermal solar systems of the market.

SANITARY HOT WATER AT 55°C

TECHNICAL CHARACTERISTICS THERMBOIL TB I

Model	TB100I	TB200I	TB250I	TB300I
Mean thermal capacity (only thermodynamic) (W)	2000 W			
Mean power consumed (thermodynamic) (W)	500 W			
Maximum power consumed (thermodynamic + resistance)	2000 W			
Voltage / frequency	230 V / 1 ph / 50 Hz			
Atmospheric temperature range (°C)	0°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			

THECNICAL 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.



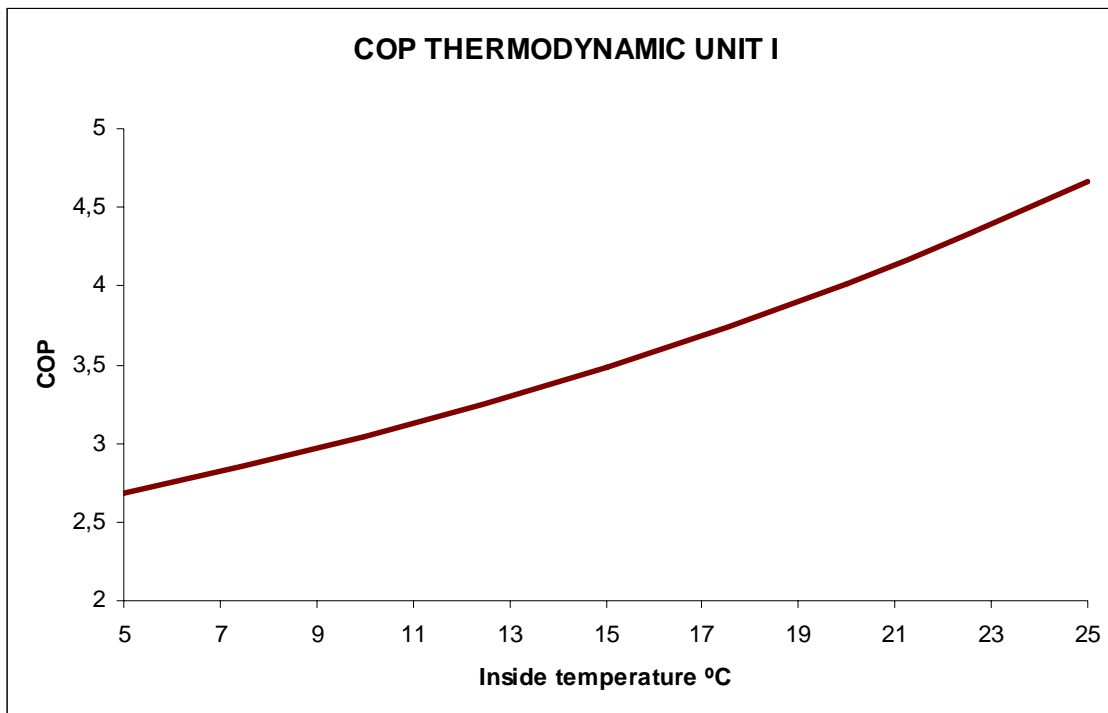
70% average annual saving*
350L water at 40°C *
COP 4.3*

Data calculated for TB200I, 15°C inlet water

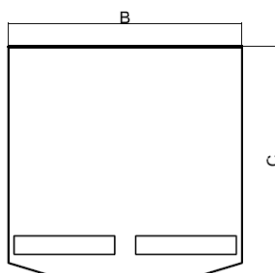
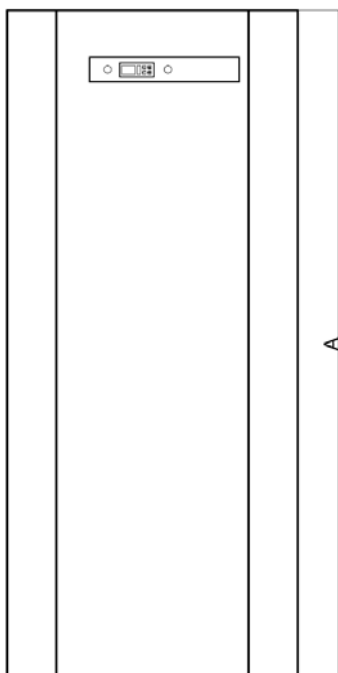


PERFORMANCE DATA

Average condensation temperature 50°C



SYSTEM DIMENSIONS



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

