

Natural Refrigerant Air/ Water Heat pump unit

Tank unit and heat pump complete with control system as one unit.

- Supplies space heating and domestic hot water.
- Heat pump provides heating with outside temperature down to -20°C .
- Extremely high heating flow, independent of outside temperature.
- Inverter 2-step compressor provides very silent running conditions.
- Even heating temperature distributed through 4-way mixing valve.



The CTC ECO2 air/water heat pump unit is developed with modern sophisticated technology, using CO₂ as refrigerant.

It is a highly efficient, powerful heat pump combined with hot water tank, providing high output even at very low outside temperatures.

The heat pump unit produces flow temperatures of up to 70°C , and using the immersion heater in the water tank to deliver flow temperature of up to 80°C .

Thanks to the unique 2-stage compressor, output power is at an almost constant level – even at the harsh conditions of -20°C , output power is no lower than 4 kW.

Delivered as a unit, the heat pump installation supplies comfort heating through the 4-way mixing valve.

The tailor designed microprocessor control system enables functions as heating levels, operational times and night reduction parameters to be set.

Special attention has been given to minimise operating noise from the heat pump. An operating CTC ECO2 heat pump has a noise level of only 45db at 1 metre distance.

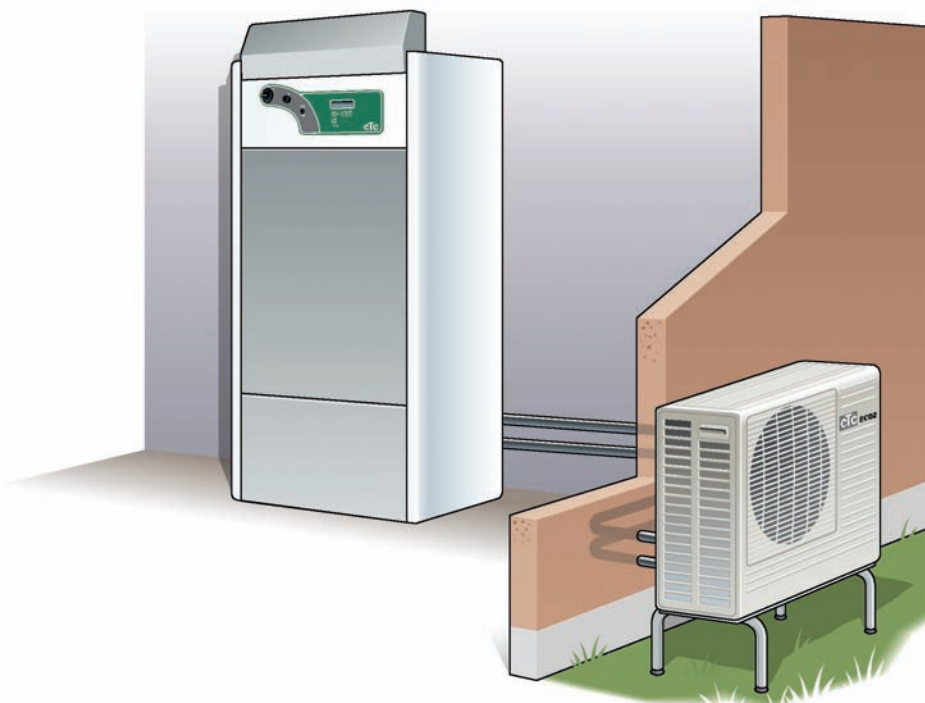
The CTC ECO2 is designed to provide the best conditions for delivering legionella-free hot water. The DHW is produced by a 2-step percolation coil-exchanger which means no stagnant hot water. When and if the need of hot water is greater than usual, the immersion heater provides for additional.

Technical Data

Product in delivery	Tank unit / Electrical boiler	Heat pump unit
Measurements, WxHxD	1547 x 597 x 619 mm	690 x 840 x 290 mm
Weight	180 kg	65 kg
Power supply	400V 3N~	220-230-240V 1~
Maximum current supply	20A	
Electrical heating capacity	9 kW	
Output limit	1.5 kW / step	
Water volume	223 litre	
Max operating pressure	2.5 bar / 100°C	
DHW type/volume	Coil / 5.7 litre	
Max operating pressure DHW coil	9 bar	
Load pump included	Yes	
Internal pressure guard	Yes	
Heating capacity / input at 20 / 50°C*		4.5 / 1.2 kW
Heating capacity / input at 7 / 50°C*		4.5 / 1.45 kW
Heating capacity / input at -15 / 50°C*		4.5 / 2.48 kW
Pressure sound level		45 dB **
Refrigerant / amount		CO2 / 0.86 kg
Compressor		DC Rotary two stage
Design pressure high/low		14 / 8 MPa
* Outdoor/Outlet water temperature. Measured at 30°C inlet water temperature		
** Measured at 7°C outdoor / 50°C inlet water temperature		

Included in delivery:

Room sensor
 Outdoor sensor
 Primary flow sensor
 Safety valve for use water, 9 bar
 Current sensors, 3 pcs



Subject to change in design and technical specifications without notice.



P.O. Box 309, S-341 26 Ljungby, Sweden
 Tel: +46 372 880 00, Fax: +46 372 824 94
 www.ctc-heating.com



The product complies to the EN directive:
 LVD: 73/23/ECC and 93/68/ECC
 EMC: 89/336/ECC

