



CTC EcoWater

Hot water heat pump, model: 300, 301, 302



The CTC EcoWater is a heat pump for the production of domestic hot water. The heat pump uses energy in the air to heat water and can cover the annual consumption of an average-sized family.

The heat pump utilises energy from the air in rooms in which it is placed, via duct connection from other areas or from outside. CTC EcoWater is an energy saver and makes it possible to reduce hot water costs by up to 65 %.

CTC EcoWater heats the hot water by means of a super-efficient, surface-mounted condenser coil within hard PUR insulation. CTC EcoWater can produce up to 800 litres of hot water every 24 hours and comes in 3 versions with 242-270 litre tanks.

Heating with additional heating coils can be achieved via a solar collector from the bottom coil or from an external heat pump via the top coil (depending on the model).

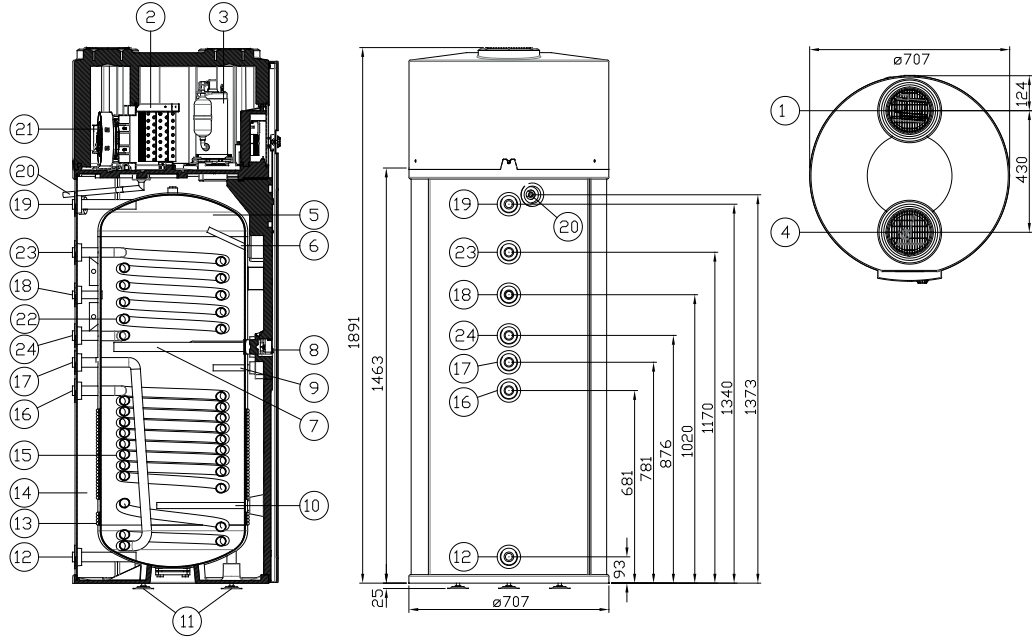
Benefits

- Unique design with condenser coil installed outside the tank
- 800 litres of hot water per day
- Extra heating coils for other forms of heating, e.g. solar or boiler
- Effective, hard PUR foam insulation to minimise energy loss
- Duct connections
- Enamelled steel tank fitted with a magnesium sacrificial anode.
- Electronic control unit to set the operating temperature
- Built-in Legionella function
- Free cooling! The cooling effect generated when the product is in operation can be distributed to other rooms via air ducts

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Dimensions diagram



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|-----------------------------------|------------------------------------|---|----------------------------------|
| 1. Exhaust air | 7. Automatic sacrificial anode 1¼" | 13. Condenser | 19. Hot water connection 1" |
| 2. Evaporator | 8. Electric heater | 14. Insulation | 20. Condensation water outlet ½" |
| 3. Compressor | 9. Sensor compartment | 15. Bottom heating coil (301/302) | 21. Fan |
| 4. Air intake ¹⁾ | 10. Anode ¾" (302) | 16. Bottom heating coil – in (301/302) | 22. Top heating coil (302) |
| 5. Enamelled steel container | 11. Adjustable feet M12 | 17. Bottom heating coil – out (301/302) | 23. Top heating coil – out (302) |
| 6. Sensor/thermometer compartment | 12. Cold water connection 1" | 18. Hot water circulation ¾" | 24. Top heating coil – in (302) |

Technical data 2x230V		300	301	302
RSK no.		6241001	6241002	6241003
CTC no.		585830001	585830002	585830003
Weight (packaged weight)	kg	114 (130)	137 (153)	159 (175)
Dimensions (diameter x height)	mm	Ø 707 x 1921		
Required ceiling height	mm	2030		
Electrical Data, connection		230V 1N~ 50Hz		
Minimum group fuse	A	13		
Energy efficiency class – Hot water/charge profile (EN16147) ²⁾		A / XL		
Hot water performance (V_{max}) Volume 40 °C	litres	468	447	419
Energy efficiency – water heating η_{WH}	%	160		
COP @ Air temperature +7 °C DHW 52.5 °C (EN 16147)/ Air temperature +15 °C VW 45 °C		2.5 / 4		
Tank volume (enamelled steel)	litres	270	258	242
Heat transfer area / coil	m ²	-	1	0.6 + 1.5
Electric heater	kW	2		
Heating output (Air temperature +7 °C Water 52.5 °C according to EN 16147)	kW	1.85		
Annual energy consumption (AEC)	kWh	1046		
Enclosure class (IP)		IP21		
Water temperature max. operation / heater (TS)	°C	55 / 65		
Air temperature from / to	°C	-10 / +35		
Nominal airflow min / max	m ³ /h	200 / 300		
Refrigerant quantity (R134A, fluorinated greenhouse gas GWP 1774)	kg	0.84		
CO ₂ equivalent	tonnes	1.201		
Sound power outdoors L_{WA}	dB	55		

¹⁾ To prevent contamination of the evaporator, a filter should be installed for incoming air.

²⁾ Energy labels and data sheets can be downloaded from www.ctc-heating.com/Ecodesign
Energy-efficiency scale A⁺ to F

