

# CTC EcoPart 425-435

## 3-stage building heat pump



CTC EcoPart has two CTC Basic Display units fitted as standard and can be controlled with a digital signal, known as thermostat control.

The new CTC EcoPart is a 3-stage heat pump with built-in simple control. CTC EcoPart is geared towards heating of larger buildings, such as apartment buildings and industrial premises.

Using separate cooling modules, CTC EcoPart 425-435 is able to increase power in three stages. As a result, operation is smoother and better adapted to the different capacity requirements of the building. There are fewer starts/stops and a higher degree of heating comfort compared with 1-stage products. The separate cooling modules also have a very low noise level

CTC EcoPart is available in three sizes: 25, 30 and 35 kW, which can be connected in series to produce up to 170 kW (5 CTC EcoPart 435 units). The CTC EcoPart has two CTC Basic Display units fitted as standard. The CTC Basic Display means that the CTC EcoPart can be controlled with a digital signal, known as thermostat control. Furthermore, it can be controlled by regulating the return temperature, a simple control that is ideal for accumulator charging, for example.

In order to achieve the lowest possible energy consumption and largest savings, CTC EcoPart is equipped with class A, low-energy circulation pumps on both the brine and heating sides.

Thanks to a newly developed refrigerant circuit and highly efficient compressors, the CTC EcoPart can produce water of 65 degrees Celsius. This means you can have more hot water and warmer radiators. Ideal for properties with high primary flow temperatures.

The CTC EcoPart is intended to be connected to either new or existing installations. Heat stored in rock, soil or lake water is used as the heat source. The brine system can easily be connected to the right, left, top or rear.

### CTC EcoPart 425-435 advantages:

- Simple control with CTC Basic Display fitted as standard
- 65 °C primary flow temperature
- Class A, low-energy circulation pumps
- Available in three sizes: 25, 30 and 35 kW which can be connected in series
- Suitable for one-and two-pipe systems, convectors and underfloor heating
- Soft-start function
- Twin quiet scroll compressors
- Flexible connection



For more information on all CTC products please visit [www.ctc-heating.com](http://www.ctc-heating.com)

## CTC EcoPart 425-435

Model	425	430	435
Electrical data	400V 3N~		
Measurements w x h x d	mm 596 x 1760 x 680		
Nominal power output	kW 15.4	17.0	19.4
IP class	IPX1		
Power consumption, compressor at 0/35°C and 0/45°C <sup>1)</sup>	kW 5.52 / 6.65	6.25 / 7.52	7.36 / 8.94
Output from compressor at 0/35°C and 0/45°C <sup>1)</sup>	kW 24.95 / 24.01	28.51 / 27.38	33.52 / 32.28
COP at 0/35°C and 0/45°C <sup>1)</sup>	4.52 / 3.61	4.56 / 3.64	4.55 / 3.61
Heating system, nominal flow, $\Delta t=5$ K 0/35°C	l/s 1.20	1.37	1.62
Brine system nominal flow, $\Delta t=3$ K	l/s 1.56	1.78	2.10
Compressor type	Scroll		
Compressor max. primary flow/return	°C 65/58		
Compressor max. operating current	A 16.7	19.7	23.0
Rated current VP	A 15.6	17.9	21.4
Water volume - brine side (TS)	l 6.97	7.47	8.14
Brine system min./max. pressure (PS)	bar 0.2 / 3.0		
Brine system min./max. temp. (TS)	°C 5 / 20		
Refrigerant quantity (R407C)	kg 2.9 + 2.1	2.9 + 2.5	2.9 + 2.9
Interrupt value switch HP	MPa 3.1 (31 bar)		
Noise level according to EN 12102	dB(A) 45.6	45.4	45.6
Weight	kg 334	354	359

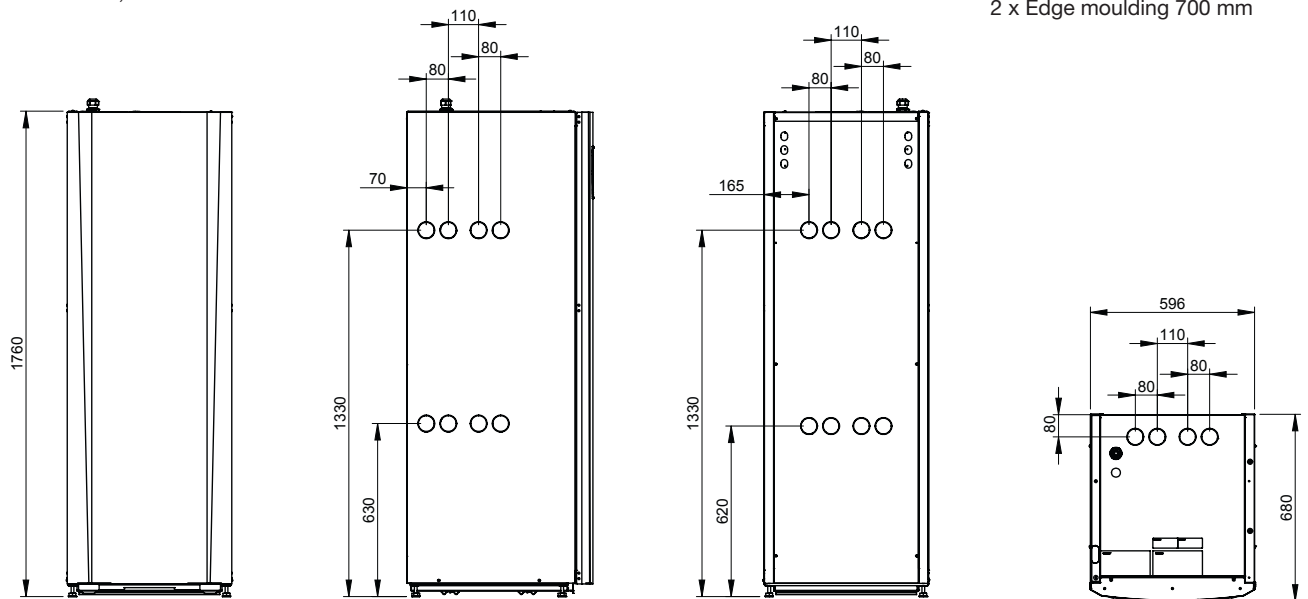
<sup>1)</sup> According to EN14511, including pumps.

### Dimensional drawing of the CTC EcoPart

The hoses may be connected to the right, left or top or rear of the heat pump.

Connection, Heat carrier: Ø28 mm

Connection, Brine: Ø28 mm.



### Delivery includes

- 1 x Safety valve ½" 3 bar
- 4 x Non-return valve 1 ¼"
- 4 x Dirt filter 1 ¼"
- 4 x Rubber grommet D=60
- 4 x Edge moulding 186 mm
- 2 x Edge moulding 700 mm

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