

CTC EcoPart i425-435 Pro

3-stage building heat pump



The unique control system CTC EcoLogic Pro is built into CTC EcoPart Pro and monitors and controls CTC's heat pumps, solar panels, pool, cooling, peak heat, buffer tanks, etc.

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

Using separate cooling modules, CTC EcoPart Pro 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 Pro 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 Pro units). The unique control system CTC EcoLogic Pro is built into CTC EcoPart Pro and monitors and controls CTC's heat pumps, solar panels, peak heat, buffer tanks, pool, cooling, etc.

In order to achieve the lowest possible energy consumption and largest savings, CTC EcoPart Pro 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 Pro 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 Pro 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.

The CTC EcoPart Pro – a safe and obvious choice.

CTC EcoPart Pro advantages:

- Built-in, advanced CTC EcoLogic Pro control
- 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

* Energy class heating, in package with built-in control



For more information on all CTC products please visit
www.ctc-heating.com

CTC EcoPart i425-435 Pro

Model	i425Pro	i430Pro	i435Pro
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		
Energy class heating 35/55°C (in package with control)	A+++/A++	A+++/A++	A+++/A++
Energy class heating 35/55°C (without control)	A++/A++	A++/A++	A++/A++
Nominal heat output (Pdesignh) 35/55°C	26/24	32/32	38/36
Power consumption, compressor at 0/35°C and 0/45°C ¹⁾	kW 5.52 / 6.65	6.25 / 7.52	7.36 / 8.94
Output from compressor at 0/35°C and 0/45°C ¹⁾	kW 24.95 / 24.01	28.51 / 27.38	33.52 / 32.28
COP at 0/35°C and 0/45°C ¹⁾	4.52 / 3.61	4.56 / 3.64	4.55 / 3.61
Heating system, nominal flow, Δt=5 K 0/35°C	l/s 1.20	1.37	1.62
Brine system nominal flow, Δt=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, fluorinated greenhouse gas GWP 1774)	kg 2.9 + 2.1	2.9 + 2.5	2.9 + 2.9
CO2 equivalent ²⁾	tonnes 4,790 + 3,371	4,790 + 4,080	4,790 + 4,790
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		

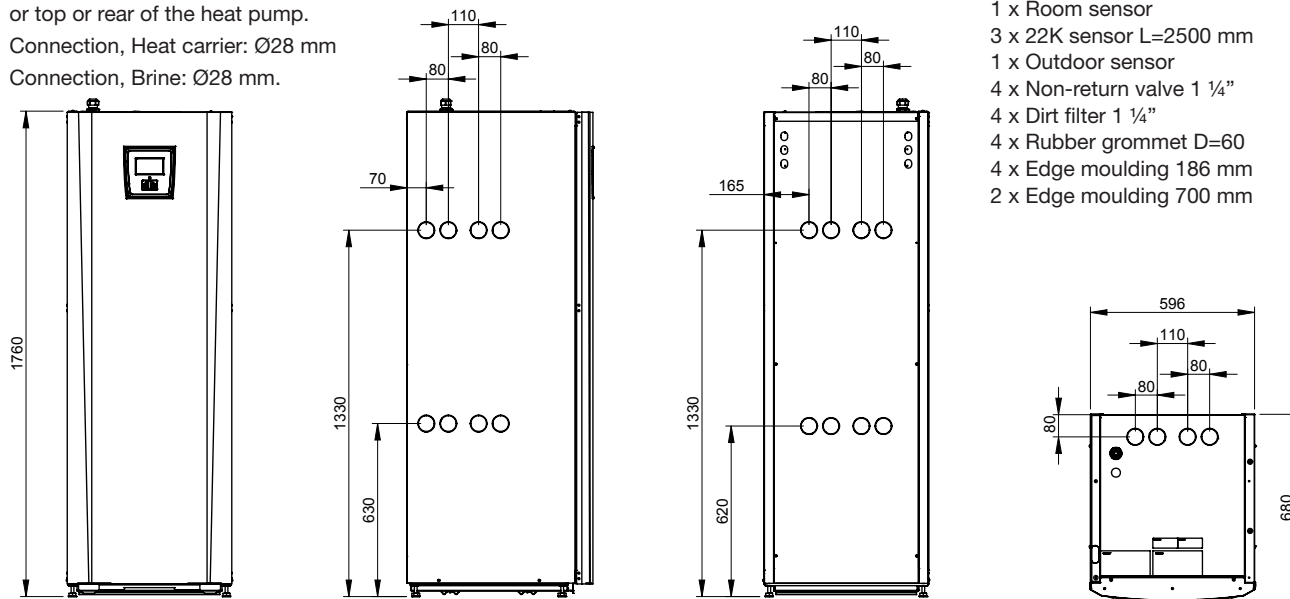
¹⁾ According to EN14511, including pumps. ²⁾ The products is not covered by the annual check for leaking refrigerant.

Dimensional drawing of the CTC EcoPart Pro

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
- 1 x Room sensor
- 3 x 22K sensor L=2500 mm
- 1 x Outdoor sensor
- 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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