

CTC EcoPart Pro/Basic

3-stage building heat pump with integrated control.



CTC EcoPart 425-435 are purpose-built for the heating of large buildings, such as apartment blocks, industrial premises and churches. The heat pump for ground source, geothermal or lake heating comprises two heat pump modules placed atop one another with integrated control.

Using separate cooling modules, CTC EcoPart Pro/Basic are able to increase output in three stages. This provides gentler operation and better adaptation to the building's various output requirements. The result is fewer starts/stops and greater heating comfort in comparison to single-stage products. The separate, well-insulated cooling modules also have a very low noise level. CTC EcoPart Pro/Basic are available in three sizes: 25, 30 and 35 kW and can be connected in series to produce up to 170 kW.

CTC EcoPart Pro comes with the unique, built-in CTC EcoLogic Pro control system, which monitors and controls CTC's heat pumps, solar panels, peak heat, buffer tanks, pools, cooling, etc. One CTC EcoPart Pro can control up to four CTC EcoPart Basic heat pumps.

CTC EcoPart is fitted with two CTC BasicDisplay units. CTC BasicDisplay allows CTC EcoPart to be controlled via 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 greatest savings, CTC EcoPart Pro/Basic are equipped with class A, low-energy circulation pumps on both the brine and heat medium sides. Thanks to an energy-efficient refrigerant circuit and highly efficient compressors, the pumps can produce 65 °C hot water. This provides you with more bathwater and warmer radiators. Ideal for properties with high primary flow temperatures. CTC EcoPart Pro/Basic are designed to be connected to new or existing installations. Ground source, geothermal or lake heat is used as the heat source. The brine system can easily be connected to the right, left, top or rear.

All CTC heat pumps and boilers are designed, developed and manufactured in our factory in Ljungby. This gives us total control of all stages of the production process – from manufacture up to delivery of the finished product.

Benefits:

- Integrated 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 for convectors and underfloor heating
- Soft-start function
- Quiet dual-scroll compressors
- Flexible connection
- Not subject to inspection requirements since the cooling modules contain less than 3 kg of refrigerant.



Find a CTC distributor in your country
www.ctc-heating.com

Whenever you purchase a product from CTC, it usually comes fully equipped, but there are a few smart accessories to make life easier.

CTC Internet*

With CTC Internet and the CTC Connect+ app, you can monitor and control your system directly via your mobile phone. For instance, you can adjust the temperature or be alerted if the system shuts down for any reason. CTC Connect+ can be downloaded for free from the App Store or Google Play.

CTC no.: 587581301



Adapt your product to your ceiling height

Hide pipe connections, etc. with a stylish top cabinet. Top cabinets are available in three heights: 155, 488 and 588 mm. They can all be combined to fit most ceiling heights.

Housing cover	155 mm CTC no.: 586463301R
	488 mm CTC no.: 586463302R
	588 mm CTC no.: 586463303R
Base	168 mm CTC no.: 586500301

CTC EcoVent 20 - Exhaust Air Unit

Allows for neat and easy installation in buildings with mechanical exhaust air ventilation. The used air is vented out and new, fresh air is supplied to the building by the building's own air supply diffuser.

CTC no.: 588000001

CTC EcoVaf III - Exhaust Air Unit with recovery

Designed to dock with CTC's geothermal/ground source heat pumps in buildings with mechanical exhaust air ventilation. Recovers heat from the exhaust air and raises the temperature of the brine, which produces a higher COP.

CTC no.: 586713001



CTC Wireless Room Sensor*

Place it anywhere in your house – no need to run cables. Set the temperature that you want the heat pump to work towards. You can connect two room sensors to each product.

CTC no.: 585521401

Extra wireless room unit: CTC no.: 585521401

CTC Extra Shunt Group*

Complete package for neat and easy installation of additional heating circuits. Complete and ready-to-use with connected controls, which means that getting started is quick and simple. Equipped with an energy-efficient circulation pump, in accordance with the ErP Directive. Well-insulated unit with easy external access to all adjustment controls and electronic components.

CTC no.: 587396301

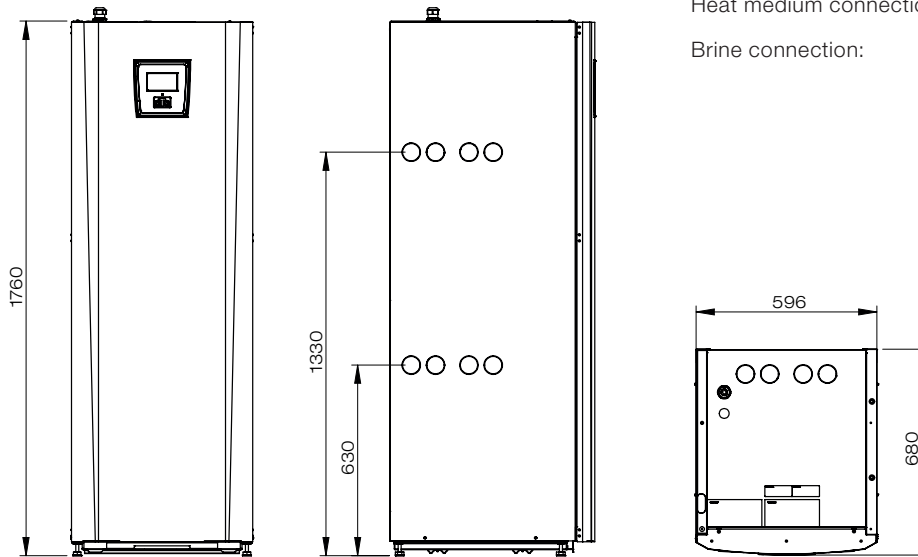
* Only for CTC EcoPart Pro



Other Accessories

		CTC no.:
CTC SMS control*	GSM modem that easily plugs into the heat pump control	585518301
CTC BMS/Internet*	For external, online control of your property via Modbus.	585513301
CTC DHW button*	Activates the extra hot water function, can be installed according to your preference.	582515301
Shunt Valve Package Pro*	Shunt valve and motor valve for installation in shunt systems (22 mm connector)	585903301
CTC EcoComfort*	A passive cooling unit that uses the borehole's cool temperature.	585920001
Safety pressure switch	For ground source heating, alerts to low brine pressure	585991301R
Brine pump	Class A circulation pump with Molex connector (UPMXL GEO25-12.5-180)	585591301R
Shunt group 2	For installing additional heating circuits (DN20 connector)	586857001
Refill manifold G25	Valve manifold with dirt filter for brine refilling and shut-off (G25 connector)	586720301T
Refill manifold G32	Valve manifold with dirt filter for brine refilling and shut-off (G32 connector)	586720302T

Dimensions diagram



Pipe connection to the right, left, top or rear of the heat pump.

Heat medium connection: Ø28 mm

Brine connection: Ø 28 mm.

Included in the delivery:
Heat pump and manual

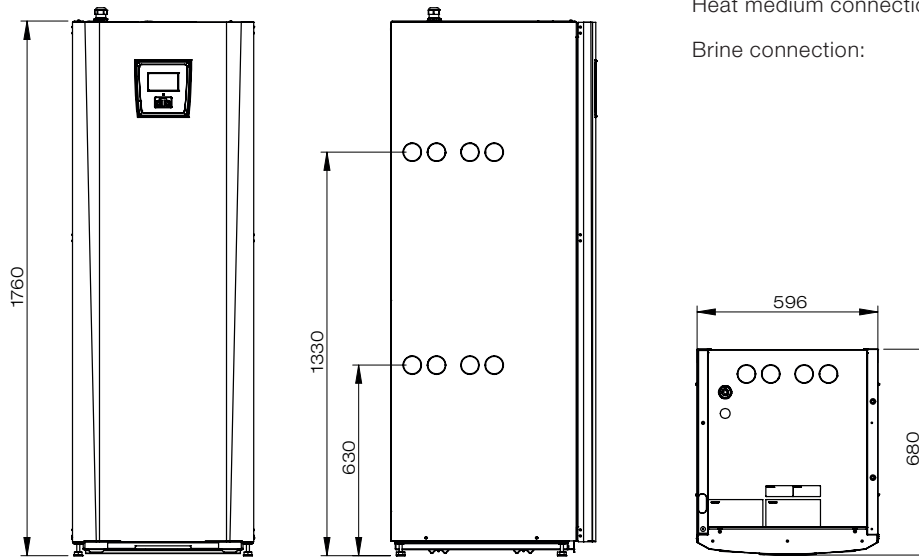
Included in the packaging:
Safety valve, non-return valve, dirt filter and room, outdoor and system sensors.

Technical data 3x400 V		425	430	435
Integrated control system model i425-i435 Pro		CTC EcoLogic Pro		
CTC no.	CTC EcoPart Pro	587000001	587000002	587000003
Weight (packaged weight)	kg	329 (359)	347 (377)	354 (385)
Rated current	A	22.2	24.6	28.9
Integrated control system model 425-435 Basic		CTC BasicDisplay		
CTC no.	CTC EcoPart Basic	587000011	587000012	587000013
Weight (packaged weight)	kg	325 (355)	345 (375)	350 (380)
Rated current	A	21.1	23.5	27.8
Cooling module (bottom/top)		417/ 408	417/ 412	417/ 417
Dimensions (width x depth x height)	mm	673 x 596 x 1760		
Electrical Data, connection		400V 3N~ 50 Hz		
Energy efficiency class in heating system @ 35/55 °C (A+++ to G) ¹⁾		A+++ / A++		
Energy efficiency class @ 35/55 °C (A+++ to D) ¹⁾		A+++ / A++		
Protection class (IP)		IP X1		
Nominal heating output (P _{designh}) 35/55 °C		26/24	32/32	38/36
Specified output @ 0/35 0/45 0/55 (EN14511)		24.5 / 24.0 / 23.4	27.9 / 27.3 / 26.8	32.4 / 32.2 / 31.7
COP @ 0/35 0/45 0/55 (EN14511) Cooling module bottom		4.36 / 3.61 / 3.07	4.36 / 3.61 / 3.07	4.36 / 3.61 / 3.07
COP @ 0/35 0/45 0/55 (EN14511) Cooling module top		4.58 / 3.64 / 2.99	4.60 / 3.66 / 2.96	4.36 / 3.61 / 3.07
SCOP cold climate @ 35/55 °C (EN14825)	kW	4.8 / 3.7	4.6 / 3.6	4.7 / 3.6
SCOP moderate climate @ 35/55 °C (EN14825)	A	4.8 / 3.7	4.6 / 3.7	4.8 / 3.7
Refrigerant quantity (R407C, fluorinated greenhouse gas GWP 1774) ²⁾	kg	2.7 + 1.9	2.7 + 2.3	2.7 + 2.7
CO ₂ equivalent	tonnes	4.790 + 3.371	4.790 + 4.080	4.790 + 4.790
Sound power L _{wa} (EN 12102)	dB(A)	45.6	45.4	45.6

¹⁾ Energy labels and data sheets can be downloaded from www.ctc-heating.com/Ecodesign

²⁾ The products do not require annual refrigerant leak inspection

Dimensions diagram



Pipe connection to the right, left, top or rear of the heat pump.

Heat medium connection: Ø28 mm

Brine connection: Ø 28 mm.

Included in the delivery:
Heat pump and manual

Included in the packaging:
Safety valve, non-return valve, dirt filter and room, outdoor and system sensors.

Technical data 1x230 V		425	430
Integrated control system model i425-i435 Pro		CTC EcoLogic Pro	
CTC no. CTC EcoPart Pro		587001001	587001002
Rated current	A	33.5	38.0
Integrated control system model 425-435 Basic		CTC BasicDisplay	
CTC no. CTC EcoPart Basic		587001011	587001012
Rated current	A	24.0	28.0
Cooling module (bottom/top)		414/ 410	414/ 414
Weight (packaged weight)	kg	334 (360)	354 (380)
Dimensions (width x depth x height)	mm	596 x 680 x 1760	
Electrical Data, connection		230V 1N~ 50 Hz	
Energy efficiency class in heating system @ 35/55 °C (A+++ to G) ¹⁾		A+++ / A++	
Energy efficiency class @ 35/55 °C (A+++ to D) ¹⁾		A+++ / A++	
Protection class (IP)		IP X1	
Nominal heating output (P _{designh}) 35/55 °C		26/ 24	32/ 32
Specified output @ 0/35 0/45 0/55 (EN14511)		24.4/ 23.4/ 22.6	28.9/ 27.8/ 26.8
COP @ 0/35 0/45 0/55 (EN14511) Cooling module bottom		4.54/ 3.64/ 2.95	4.54/ 3.64/ 2.95
COP @ 0/35 0/45 0/55 (EN14511) Cooling module top		4.60/ 3.68/ 2.98	4.54/ 3.64/ 2.95
SCOP cold climate @ 35/55 °C (EN14825)	kW	4.8/ 3.7	4.6/ 3.6
SCOP moderate climate @ 35/55 °C (EN14825)	A	4.8/ 3.7	4.6/ 3.7
Refrigerant quantity (R410A, fluorinated greenhouse gas GWP 2088) ²⁾	kg	2.7 + 1.9	2.7 + 2.7
CO ₂ equivalent	tonnes	4.790 + 3.371	4.790 + 4.080
Sound power L _{wa} (EN 12102)	dB(A)	45.6	45.4

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