



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.

myUplink*

With the myUplink 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. The myUplink app can be downloaded for free from the App Store or Google Play.



CTC SmartControl*

A series of smart wireless sensors which detect temperature, humidity and carbon dioxide. The system is based on CTC SmartControl Gateway, a base unit able to control up to seven optional wireless accessories.

The series includes a wireless room sensor powered by solar cells, a humidity and CO₂ sensor that can control ventilation as needed, a repeater that amplifies signals between different accessories and a multi-button able to control several different functions, such as additional hot water.

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



Adapt your product to your ceiling height

Hide pipe connections, etc. with a stylish housing cover, or set the product on a base in the same design. Housing covers are available in three heights and all are combinable to fit most ceiling heights.

Cover 488 mm	CTC no.: 586463302R
Cover 588 mm	CTC no.: 586463303R
Raised base II 168 mm	CTC no.: 589590301

Other Accessories

CTC SMS control*

GSM modem that easily plugs into the heat pump control

CTC no.:

585518301

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

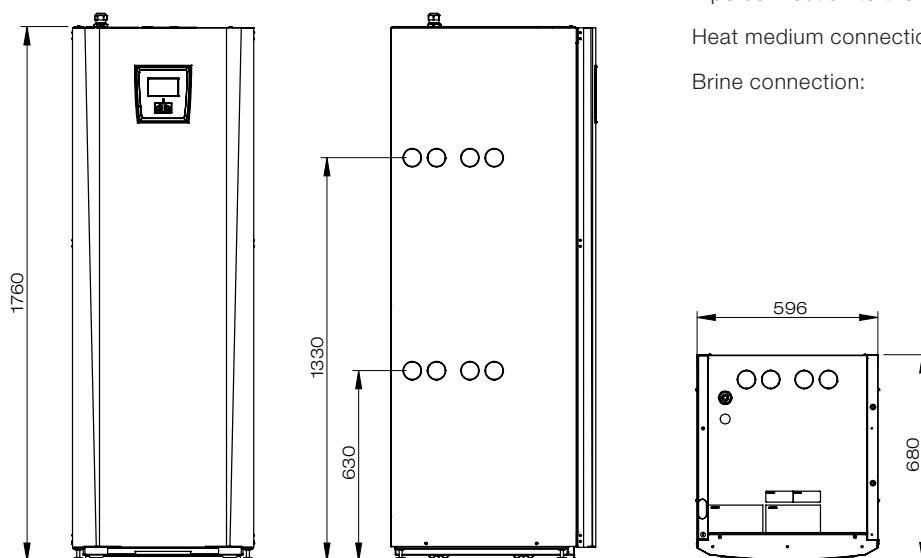
Shunt group 2*

For installing additional heating circuits (DN20 connector)

586857001

* Only for CTC EcoPart Pro

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:

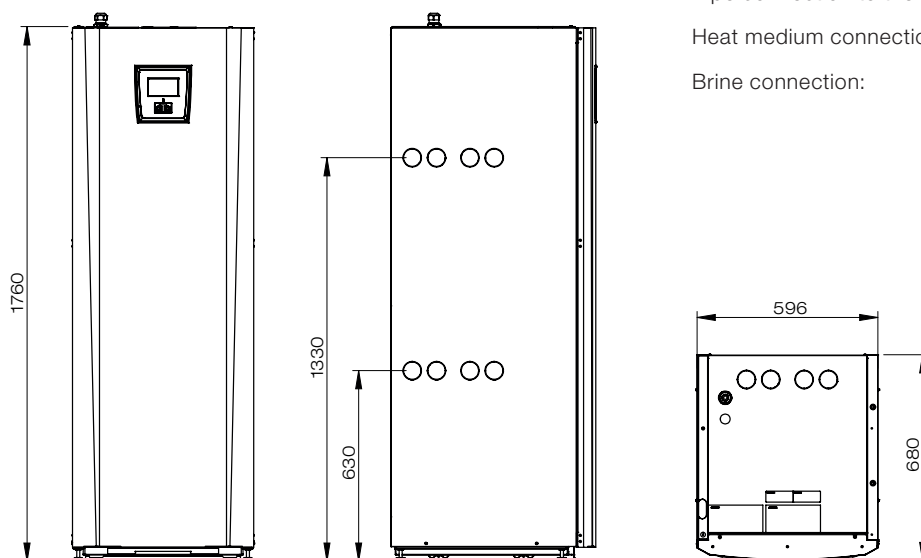
Safety valve, non-return valve, dirt filter and room, outdoor and system sensors.

Technical data 3x400 V		425	430	435
Integrated control system model i425-i435 Pro		EcoLogic		
CTC-nr		587000001	587000002	587000003
Weight (packaged weight)	kg	328 (353)	346 (371)	352 (377)
Rated current (recommended fuse)	A	22.2 (25)	24.6 (25)	28.9 (32)
Integrated control system model 425-435 Basic		Basic		
CTC-nr		587000011	587000012	587000013
Weight (packaged weight)	kg	323 (348)	344 (369)	349 (374)
Rated current (recommended fuse)	A	21.1 (25)	23.5 (25)	27.8 (32)
Dimensions (depth x width x height)	mm	673x596x1760		
Specified output TOTAL : W35 & B0/5/10 (EN14511)	kW	24.43 /28.69 /31.95	27.99 /32.78 /36.75	32.48 /38.50 /42.60
Specified output CM TOP : W35 & B0/5/10 (EN14511)	kW	8.19 /9.44 /10.65	11.75 /13.53 /15.45	16.24 /19.25 /21.30
Specified output CM BOTTOM : W35 & B0/5/10 (EN14511)	kW	16.24 /19.25 /21.30	16.24 /19.25 /21.30	16.24 /19.25 /21.30
Input power TOTAL : W35 & B0/5/10 (EN14511)	kW	5.51 /5.71 /5.92	6.27 /6.48 /6.77	7.44 /7.66 /7.98
Input power CM TOP : W35 & B0/5/10 (EN14511)	kW	1.79 /1.88 /1.93	2.55 /2.65 /2.78	3.72 /3.83 /3.99
Input power CM BOTTOM : W35 & B0/5/10 (EN14511)	kW	3.72 /3.83 /3.99	3.72 /3.83 /3.99	3.72 /3.83 /3.99
COP TOTAL : W35 & B0/5/10 (EN14511)		4.43 /5.02 /5.40	4.46 /5.06 /5.43	4.37 /5.03 /5.34
COP CM TOP : W35 & B0/5/10 (EN14511)		4.58 /5.02 /5.53	4.60 /5.11 /5.57	4.36 /5.02 /5.34
COP CM BOTTOM : W35 & B0/5/10 (EN14511)		4.36 /5.02 /5.34	4.36 /5.02 /5.34	4.36 /5.02 /5.34
Sound power L_{WA} B0/W35 (EN 12102)	dB(A)	50	53	56
Sound pressure L_{PA} 1m B0/W35 (EN ISO 11203)	dB(A)	45	48	51
Electrical Data, connection		400V 3N~ 50Hz		
Ingress protection class (IP)		IPX1		
Water volume (V)	litres	4.1 + 2.9	4.1 + 3.4	4.1 + 4.1
Refrigerant quantity (R407C, fluorinated greenhouse gas GWP 1774) ²⁾	kg	4.6 (2.7+1.9)	5.0 (2.7+2.3)	5.4 (2.7+2.7)
CO2-equivalent	tonnes	8.160	8.870	9.579
SCOP cold climate: W35 (EN14825, Pdesignh)		4.8	4.6	4.8
SCOP average climate: W35 (EN14825, Pdesignh)		4.8	4.6	4.7
Package efficiency class: W35/W55 (A+++ - G) ¹⁾		A+++		
Energy efficiency class: W35/W55 (A+++ - D) ¹⁾		A++		

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		EcoLogic	
CTC-nr		587001001	587001002
Weight (packaged weight)	kg	339 (364)	357 (382)
Rated current (recommended fuse)	A	33.5 (35)	38.0 (50)
Integrated control system model 425-435 Basic		Basic	
CTC-nr		587001011	587001012
Weight (packaged weight)	kg	334 (359)	355 (380)
Rated current (recommended fuse)	A	54.8 (63)	66.4 (70)
Dimensions (depth x width x height)	mm	673x596x1760	
Specified output TOTAL : W35 & B0/5/10 (EN14511)	kW	24.43 /28.69 /31.95	27.99 /32.78 /36.75
Specified output CM TOP : W35 & B0/5/10 (EN14511)	kW	8.19 /9.44 /10.65	11.75 /13.53 /15.45
Specified output CM BOTTOM : W35 & B0/5/10 (EN14511)	kW	16.24 /19.25 /21.30	16.24 /19.25 /21.30
Input power TOTAL : W35 & B0/5/10 (EN14511)	kW	5.51 /5.71 /5.92	6.27 /6.48 /6.77
Input power CM TOP : W35 & B0/5/10 (EN14511)	kW	1.79 /1.88 /1.93	2.55 /2.65 /2.78
Input power CM BOTTOM : W35 & B0/5/10 (EN14511)	kW	3.72 /3.83 /3.99	3.72 /3.83 /3.99
COP TOTAL : W35 & B0/5/10 (EN14511)		4.43 /5.02 /5.40	4.46 /5.06 /5.43
COP CM TOP : W35 & B0/5/10 (EN14511)		4.58 /5.02 /5.53	4.60 /5.11 /5.57
COP CM BOTTOM : W35 & B0/5/10 (EN14511)		4.36 /5.02 /5.34	4.36 /5.02 /5.34
Sound power L_{WA} B0/W35 (EN 12102)	dB(A)	50	53
Sound pressure L_{PA} 1m B0/W35 (EN ISO 11203)	dB(A)	45	48
Electrical Data, connection		230V 1N~ 50 Hz	
Ingress protection class (IP)		IPX1	
Water volume (V)	litres	4.1 + 2.9	4.1 + 4.1
Refrigerant quantity (R407C, fluorinated greenhouse gas GWP 1774) ²⁾	kg	4.6 (2.7+1.9)	5.4 (2.7+2.7)
CO2-equivalent	tonnes	8.160	9.579
SCOP cold climate: W35 (EN14825, Pdesignh)		4.8	4.6
SCOP average climate: W35 (EN14825, Pdesignh)		4.8	4.6
Package efficiency class: W35/W55 (A+++ - G) ¹⁾		A+++	
Energy efficiency class: W35/W55 (A+++ - D) ¹⁾		A++	

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