An eco-friendly and secure investment!

HEAT PUMPS

CTC EcoPart Pro

3-stage ground source heat pump with built-in control.

25-35 kW, models 425-435

- Smart and simple control
- Available in three sizes
- Easy to install
- Eco-friendly and renewable
- Up to five heat pumps can be operated simultaneously

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

MADE IN SWEDEN

CTC EcoPart 425–435

CTC EcoPart Pro/Basic is suitable for heating larger buildings, such as apartment blocks, industrial premises and churches.

Smart and simple control
CTC EcoPart Pro comes with the unique CTC EcoLogic L control system built-in. The control unit handles your entire heating system. It monitors and controls your heat pumps, domestic hotwater, solar panels, additional heating, buffer tanks, pool, passive cooling and more. Internet connectivity is standard so you can easily control your product with Modbus, the myUplink app or the like.

If you don't need such an advanced control system, you choose the CTC EcoPart Basic instead, which can be controlled with a digital signal (thermostatic control). It can also be controlled by regulating the return temperature, a simple control method which is ideal for buffer tanks. It couldn't be simpler or more flexible.

Very low noise level
Using separate cooling modules, CTC EcoPart Pro/Basic is able to increase output in three stages. This gives smoother operation and better adaptation to the building's various output requirements. This results in fewer starts/stops and higher heating comfort compared with single-stage products. The separate cooling modules also have a very low noise level.

CTC EcoPart Pro/Basic is available in three sizes: 25, 30 and 35 kW, and can be connected in series up to 170 kW (one CTC EcoPart i435 Pro that controls four CTC EcoPart 435 Basic). In order to achieve the lowest possible energy consumption and largest savings, CTC EcoPart Pro/Basic is equipped with class A, low-energy circulation pumps on both the collector and heating sides.

More hot water and warmer radiators
Thanks to an advanced refrigerant circuit and highly efficient compressors, CTC EcoPart Pro/Basic can produce 65°C water. This means you can have more bathwater and warmer radiators. Ideal for properties with high primary flow temperatures.

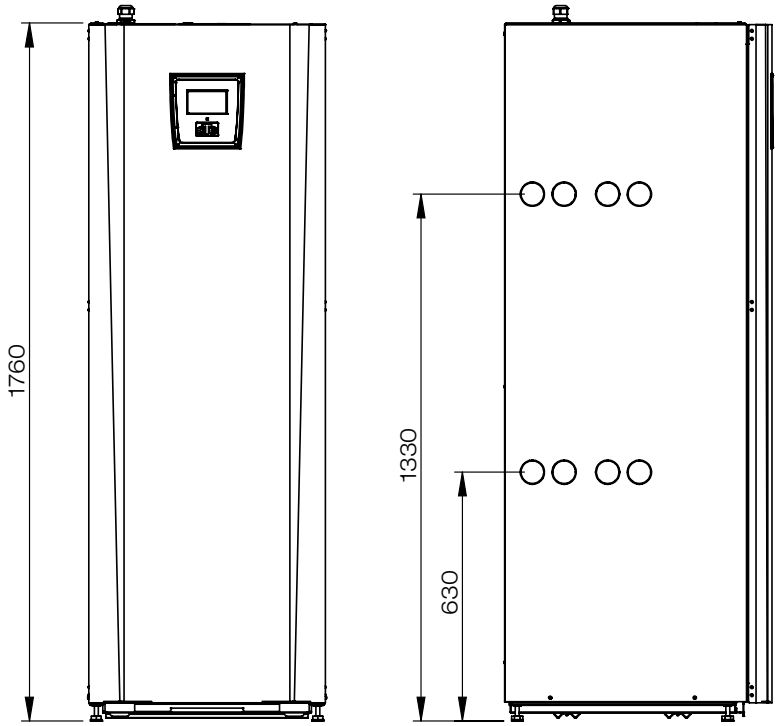
CTC EcoPart Pro/Basic are ground source heatpumps designed to be connected to new or existing systems. The collector system can easily be connected on the right, left, top or rear sides. CTC EcoPart Pro/Basic – a safe and obvious choice.

Technical data 3x400 V		i425 Pro	i430 Pro	i435 Pro	425 Basic	430 Basic	435 Basic
CTC-nr		587000001	587000002	587000003	587000011	587000012	587000013
Weight (packaged weight)	kg	328 (353)	346 (371)	352 (377)	323 (348)	344 (369)	349 (374)
Dimensions (depth x width x height)	mm	673x596x1760					
Specified output max: W35 & B0/5/10 (EN14511)	kW	24.43 /28.69 /31.95	27.99 /32.78 /36.75	32.48 /38.50 /42.60	24.43 /28.69 /31.95	27.99 /32.78 /36.75	32.48 /38.50 /42.60
Input power max: W35 & B0/5/10 (EN14511)	kW	5.51 /5.71 /5.92	6.27 /6.48 /6.77	7.44 /7.66 /7.98	5.51 /5.71 /5.92	6.27 /6.48 /6.77	7.44 /7.66 /7.98
Sound power L_{WA} B0/W35 (EN 12102)	dB(A)	50	53	56	50	53	56
Sound pressure L_{PA} 1m B0/W35 (EN ISO 11203)	dB(A)	45	48	51	45	48	51
Electrical Data, connection		400V 3N~ 50Hz					
Rated current	A	22.2	24.6	28.9	21.1	23.5	27.8
Recommended fuse	A	25	25	32	25	25	32
Ingress protection class (IP)		IP X1					
Refrigerant quantity (R407C, GWP 1774) *	kg	4.6 (2.7+1.9)	5.0 (2.7+2.3)	5.4 (2.7+2.7)	4.6 (2.7+1.9)	5.0 (2.7+2.3)	5.4 (2.7+2.7)
CO_2 equivalent	tonnes	8.160	8.870	9.579	8.160	8.870	9.579
SCOP cold climate: W35 (EN14825, Pdesignh)		4.8	4.6	4.8	4.8	4.6	4.8
SCOP average climate: W35 (EN14825, Pdesignh)		4.8	4.6	4.7	4.8	4.6	4.7
SCOP warm climate: W35 (EN14825, Pdesignh)		4.7	4.5	4.7	4.7	4.5	4.7
Package efficiency class: W35/W55 (A^{+++} to G)		A^{+++}/A^{++}					
Energy efficiency class: W35/W55 (A^{+++} to D)		A^{+++}/A^{++}					

* Not subject to inspection requirements since the cooling modules contain less than 3 kg of refrigerant.

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

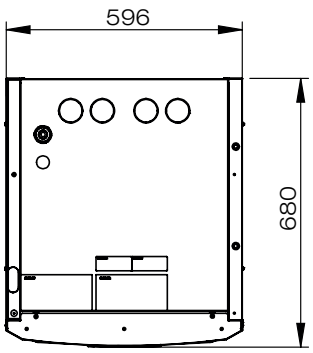
Dimensions diagram



Connection
Brine: Ø 28 mm.
Heat carrier: Ø 28 mm.

Delivery includes:
Heat pump and manual.

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



Technical data 1x230 V		i425 Pro	i430 Pro	425 Basic	430 Basic
CTC-nr		587001001	587001002	587001011	587001012
Weight (packaged weight)	kg	339 (364)	357 (382)	334 (359)	355 (380)
Dimensions (depth x width x height)	mm	673x596x1760			
Specified output max: W35 & B0/5/10 (EN14511)	kW	24.43 /28.69 /31.95	27.99 /32.78 /36.75	24.43 /28.69 /31.95	27.99 /32.78 /36.75
Input power max: W35 & B0/5/10 (EN14511)	kW	5.51 /5.71 /5.92	6.27 /6.48 /6.77	5.51 /5.71 /5.92	6.27 /6.48 /6.77
Sound power L_{WA} B0/W35 (EN 12102)	dB(A)	50	53	50	53
Sound pressure L_{PA} 1m B0/W35 (EN ISO 11203)	dB(A)	45	48	45	48
Electrical Data, connection		230V 1N~ 50 Hz			
Rated current	A	33.2 + 25.6	33.2 + 38.0	33.2 + 21.6	33.2 + 33.2
Recommended fuse	A	63 / 35 + 32	70 / 35 + 50	63 / 35 + 25	70 / 35 + 35
Ingress protection class (IP)		IP X1			
Refrigerant quantity (R407C, GWP 1774) *	kg	4.6 (2.7+1.9)	5.4 (2.7+2.7)	4.6 (2.7+1.9)	5.4 (2.7+2.7)
CO_2 equivalent	tonnes	8.160	9.579	8.160	9.579
SCOP cold climate: W35 (EN14825, Pdesignh)		4.8	4.6	4.8	4.6
SCOP average climate: W35 (EN14825, Pdesignh)		4.8	4.6	4.8	4.6
SCOP warm climate: W35 (EN14825, Pdesignh)		4.7	4.5	4.7	4.5
Package efficiency class: W35/W55 (A^{+++} to G)		A^{+++}/A^{++}			
Energy efficiency class: W35/W55 (A^{+++} to D)		A^{+++}/A^{++}			

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Compatible control units

– refer to individual product sheets for more detailed information.

CTC EcoLogic L/M
*** Basic**

CTC EcoPart i600M
*** Basic**

CTC EcoZenith i555 Pro
*** Basic**

CTC EcoPart 400 Pro
*** Basic**

Smart accessories

– supplement and simplify.

		CTC no.:
CTC EcoMiniel 3x400V	Compact additional heating for heat pump systems, 3-9 kW	581759001
CTC EcoMiniel 1x230V	Compact additional heating for heat pump systems, 2-6 kW	581759002
CTC Extra Shunt group	Complete package for neat and easy installation of additional heating circuits	587396301
CTC Mixing Valve Group 2	For installing an additional heating circuit	586857001
CTC Mixing Valve Package Pro	Shunt valve and motor valve for installation in shunt systems (22 mm connector).	585903301
CTC EcoVent 20	Exhaust air unit - Adapted for placement above the heat pump	588000001
CTC EcoComfort	A passive cooling unit that uses the borehole's cool temperature	585920001
CTC Safety pressure switch	Provides a warning in the event of low brine pressure	589597301
CTC Raised base II	168 mm. For more space under the heat pump	589590301
CTC Housing cover 146 mm	Hide pipe connections, etc. with a stylish housing cover	586463301R
CTC Housing cover 488 mm	Hide pipe connections, etc. with a stylish housing cover	586463302R
CTC Housing cover 588 mm	Hide pipe connections, etc. with a stylish housing cover	586463303R
CTC Raised base II	168 mm. For more space under the heat pump	589590301
CTC DHW button	Activates the extra hot water function, wire-bound	582515301
CTC SmartControl Gateway	Base unit able to control up to seven optional units	588300301
CTC SmartControl Repeater	Amplifies the signal between the base unit and the different accessories	588300302
CTC SmartControl Room/Humidity/CO_2 sensor	Wired sensor that can control ventilation on demand (base unit required)	588300303
CTC SmartControl Room/Humidity Sensor	Solar powered and wireless with rechargeable battery (base unit required)	588305301
CTC SmartControl Room Sensor	Solar powered and wireless with rechargeable battery (base unit required)	588306301
CTC SmartControl Multi-button	Wireless 2 mode button (base unit required)	588307301
CTC Solar Pump Station	Compact solar pump station for solar heating	587700001
CTC Start-kit EcoSol	Start kit for connecting CTC solar control with existing solar system	587458301