An eco-friendly and secure investment!

cTc

HEAT PUMPS

CTC EcoPart 400

Compact on/off ground source heat pumps.

6–17 kW, models 406–417

- Small and powerful

- Available in six sizes

- Easy to install

- Eco-friendly

- Up to 10 heat pumps can be operated simultaneously

MADE IN SWEDEN

CTC EcoPart 406-417

Compact heat pumps with a low height, which makes them perfect for confined spaces. Six ultra-efficient, compact heat pumps that meet the heating needs of houses or small industrial premises. CTC EcoPart 400 is available in six sizes: 6 to 17 kW.

Ultra-efficient and smart
With CTC EcoPart 400, you save up to 80% of your current energy needs. If your energy needs are greater, you can connect up to ten CTC EcoPart 400 units together.

Quiet and simple
CTC EcoPart 400 is quieter than ever due to the soundproofed cooling modules. It is compact and therefore easy to install and simple to service.

All-in-one solution
You can add other energy sources and connect solar heating, a water-jacketed stove or even a pool. Our solutions essentially provide you with unlimited possibilities for your and your property's needs.

Small and powerful
If the ceiling height is too low for a normal heat pump, CTC EcoPart 400 can be docked to the CTC EcoZenith i255L indoor module. If your hot water needs are quite large, you can opt for the CTC EcoZenith i360L indoor module instead, which is equipped with an ultra-efficient DHW heat exchanger.

Pool or high heating demands
If you want to connect another heat source or pool, CTC EcoPart 400 can be connected to CTC EcoZenith i555 Pro. Keep in mind that CTC EcoZenith i555 Pro is a round system tank that requires a little more space. If you have greater needs, or if you already have a system you wish to supplement, the CTC EcoLogic L/M controller enables you to connect up to ten heat pumps to your hot water and heating system.

The control unit in CTC EcoZenith and CTC EcoLogic can manage your entire heating system and can control hot water production according to your preferences and needs.

Supplement with cooling, multiple heating circuits, solar panels and a pool, etc – with our indoor modules everything is built in right from the start. It couldn't be simpler or more flexible.
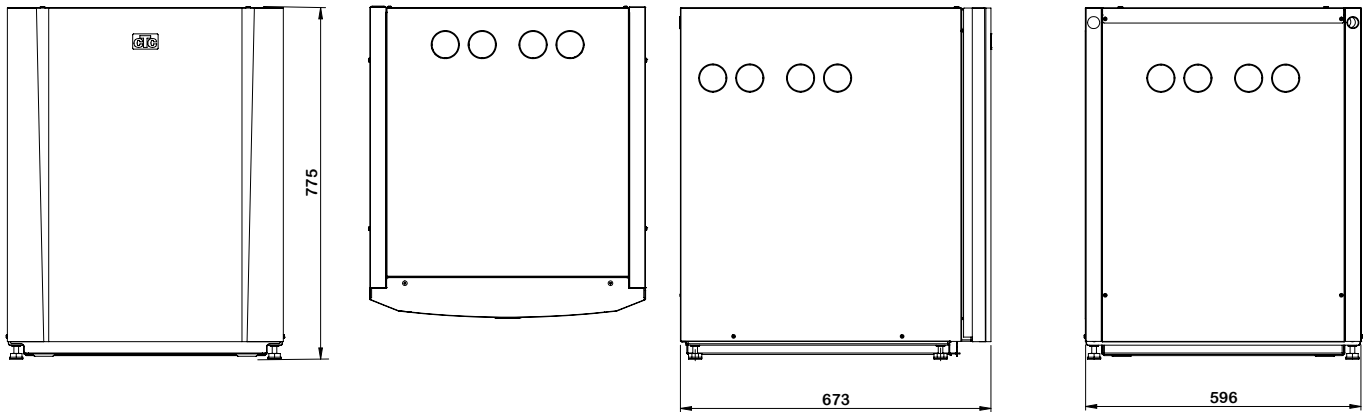
Technical data 3x400 V		406	408	410	412	414	417
CTC-nr		585700001	585700002	585700003	585700004	585700035	585700036
Weight (packaged weight)	kg	148 (166)	145 (163)	151 (169)	165 (183)	171 (189)	172 (190)
Dimensions (depth x width x height)	mm	673 x 596 x 775					
Specified output max: W35 & B0/5/10 (EN14511)	kW	5.90 /6.81 /7.21	8.19 /9.44 /10.65	9.97 /11.42 /12.49	11.75 /13.53 /15.45	14.47 /16.48 /18.93	16.24 /19.25 /21.3
Input power max: W35 & B0/5/10 (EN14511)	kW	1.29 /1.30 /1.39	1.79 /1.88 /1.93	2.17 /2.20 /2.29	2.55 /2.65 /2.78	3.19 /3.21 /3.47	3.72 /3.83 /3.99
Sound power L_{WA} B0/W35 (EN 12102)	dB(A)	43	46	49	50	53	56
Sound pressure L_{PA} 1m B0/W35 (EN ISO 11203)	dB(A)	38	41	44	45	48	51
Electrical Data, connection		400V 3N~ 50Hz					
Rated current (Recommended fuse)	A	5.8 (10)	6.5 (10)	8.1 (10)	9.6 (10)	12.2 (13)	13.9 (16)
Ingress protection class (IP)		IP X1					
Refrigerant quantity (R407C, GWP 1774)	kg	1.9	1.9	1.9	2.3	2.7	2.7
CO_2 equivalent	tonnes	3.370	3.370	3.370	4.080	4.789	4.789
SCOP cold climate: W35 (EN14825, Pdesignh)		4.8	4.8	4.8	4.8	4.6	4.8
SCOP average climate: W35 (EN14825, Pdesignh)		4.7	4.7	4.7	4.8	4.6	4.7
SCOP warm climate: W35 (EN14825, Pdesignh)		4.6	4.6	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^{++}	A^{+++}/A^{++}	A^{+++}/A^{++}	A^{+++}/A^{++}	A^{++}/A^{++}	A^{+++}/A^{++}

* The reported data applies to use with the CTC EcoLogic control unit

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

Dimensions diagram

Connection
Brine: Ø 28 mm.
Heat carrier: Ø22 mm (406–412)
Heat carrier: Ø28 mm (414–417)

Delivery includes:
Heat pump and manual.

Packaging includes:
Communication cable (5 m), filler manifold, safety valve, brine vessel (only 406–412), factory-fitted brine pump on all models. 414–417 400V also has a factory fitted charge pump.

Technical data 1x230 V		406	408	410	412	414
CTC-nr		585700011	585700012	585700013	585700014	585700015
Weight (packaged weight)	kg	150 (168)	146 (164)	152 (170)	166 (184)	167 (185)
Dimensions (depth x width x height)	mm	673 x 596 x 775				
Specified output max: W35 & B0/5/10 (EN14511)	kW	5.90 /6.81 /7.21	8.19 /9.44 /10.65	9.97 /11.42 /12.49	11.75 /13.53 /15.45	14.47 /16.48 /18.93
Input power max: W35 & B0/5/10 (EN14511)	kW	1.29 /1.30 /1.39	1.79 /1.88 /1.93	2.17 /2.20 /2.29	2.55 /2.65 /2.78	3.19 /3.21 /3.47
Sound power L_{WA} B0/W35 (EN 12102)	dB(A)	43	46	49	50	53
Sound pressure L_{PA} 1m B0/W35 (EN ISO 11203)	dB(A)	38	41	44	45	48
Electrical Data, connection		230V 1N~ 50 Hz				
Rated current (Recommended fuse)	A	14 (16)	19.5 (20)	21.6 (25)	27.1 (32)	33.2 (35)
Ingress protection class (IP)		IP X1				
Refrigerant quantity (R407C, GWP 1774)	kg	1.9	1.9	1.9	2.3	2.7
CO_2 equivalent	tonnes	3.370	3.370	3.370	4.080	4.789
SCOP cold climate: W35 (EN14825, Pdesignh)		4.8	4.8	4.8	4.8	4.6
SCOP average climate: W35 (EN14825, Pdesignh)		4.7	4.7	4.7	4.8	4.6
SCOP warm climate: W35 (EN14825, Pdesignh)		4.6	4.6	4.7	4.7	4.5
Package efficiency class: W35/W55 (A+++ to G) *		A+++/A++				
Energy efficiency class: W35/W55 (A+++ to D)		A+++/A++	A+++/A++	A+++/A++	A+++/A++	A++/A++

Compatible control units

– refer to individual product sheets for more detailed information.

CTC EcoVent i360F
* 406–412

CTC EcoZenith i360 L/H
* 406–412

CTC EcoZenith i555 Pro

CTC EcoZenith i255 L/H
* 406–412

CTC EcoPart i600M

CTC EcoLogic L/M

CTC EcoLogic S EP

CTC EcoPart 400 Pro

Smart accessories

– supplement and simplify.

		CTC no.:
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 Basic Control	Digital thermostat control. Used with tank or when replacing older heat pump	587893301
CTC Basic Display 1M	Service tool used for servicing and naming of heat pumps with 1 meter cord	586043401
CTC Converter 2.0	Enables the CTC's Series 400 heat pumps to be combined with V3 control unit	585821303
CTC Raised base II	168 mm. For more space under the heat pump	589590301
Communication cable 10 m	For when the control unit and heat pump are far apart (more than 5m)	586041401
CTC Charge pump 25/70-130 6-8 kW	406–412: 7.0 m A-class PWM for heat pump 6-8 kW	587477303
CTC Charge pump 25/7-130 10-12 kW	406–412: 7.5 m A-class PWM for heat pump 10-12 kW	587477302
CTC Brine pump 25/125-180	406–412: 12.5 m A-class PWM for heat pump 10-17 kW	588898301
CTC Filler Manifold G32	406–412: Refill Coupler for heat pump 14-18 kW with replaceable stainless steel silk basket DN32	586720302T