

# CTC EcoPart 400

## Heat pump for rock, soil and lake heat



Thanks to a newly developed refrigerant circuit and a highly efficient compressor, the CTC EcoPart 400 can produce water of 65 degrees Celsius.

The CTC EcoPart 400 is a compact heat pump that satisfies the heating needs of houses, properties or small industrial premises.

The CTC EcoPart 400 is a highly effective heat pump with the same performance as the CTC EcoHeat 400, but without control and water heating.

Thanks to a newly developed refrigerant circuit and a highly efficient compressor, the EcoPart 400 can produce 65 degree Celsius water and allows you to have hotter radiators and more bath water. This unit is suitable for properties with high primary flow temperatures.

The CTC EcoPart 400 is a highly flexible solution intended to be connected to either a new or existing installation by connections at the top, bottom left or right hand side. The brine system can utilize rock, soil and lake water heat sources.

Do you want the best for your property? Do you want a future-proof solution? All inclusive? A solution that means you will never be without hot water?

Then connect the CTC EcoPart 400 to the CTC EcoZenith I 550.

If there is a low ceiling and a normal heat pump is too tall, the CTC EcoPart 406 - 412 can be conveniently connected to the CTC EcoZenith i250 boiler. Together these products will function as a complete heat pump.

If you wish to connect the CTC EcoPart 400 to your current installation, you will need a CTC EcoLogic PRO/Family control module connecting to it. If the energy requirement is particularly large, up to ten pumps can be run together.

The CTC Basic Display accessory allows the CTC EcoPart 400 to be controlled with a digital signal, known as a thermostat control. Furthermore, this can then be controlled by regulating the return temperature, a simple control that is ideal for accumulator charging, for example.

The CTC EcoPart 400 – a safe and obvious choice.

### CTC EcoPart 400 advantages:

- For houses and buildings
- 65 °C primary flow temperature
- Available in six sizes: 6, 8, 10, 12, 14 and 17 kW
- Multiple CTC EcoPart units can be connected in series
- Solution for basements with low ceiling heights
- Quiet scroll compressor
- Soft-start function
- Flexible connection



\* Energy class heating, in package with control.

For more information on all CTC products please visit  
**[www.ctc-heating.com](http://www.ctc-heating.com)**

CTC EcoPart 400								
Model		406	408	410	412	414	417	
Measurements b x h x d	mm	600 X 760 x 673						
Electrical data		400V 3N~						
Energy class heating 35/ 55°C (in package with control)		A+++/ A++	A+++/ A++	A+++/ A++	A+++/ A++	A+++/ A++	A+++/ A++	
Energy class heating 35/55°C (without control)		A++/A++	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++	
Nominal heat output (Pdesignh) 35/55°C	kW	7/6	9/9	11/11	13/12	16/16	19/18	
Nominal power output	kW	2,7	3,5	4,2	5,1	5,9	7,3	
Compressor output at 35 °C <sup>1)</sup>	kW	1,3	1,7	2,0	2,4	3,0	3,5	
Output from compressor at 0/35 <sup>1)</sup>	kW	6,1	8,4	10,2	12,1	14,8	17,4	
Output from compressor at 0/35 and 0/45	kW	5,9/5,5	8,2/7,9	10,0/9,6	11,8/11,2	14,5/13,9	16,9/16,1	
COP <sup>1)</sup>	kW	4,6/3,5	4,6/3,6	4,6/3,7	4,6/3,7	4,5/3,6	4,6/3,6	
SCOP cold climate 35/55°C (EN 14825)	kW	4,8/3,5	4,8/3,7	4,8/3,7	4,8/3,7	4,6/3,7	4,8/3,7	
SCOP moderate climate 35/55°C (EN 14825)	kW	4,7/3,5	4,7/3,6	4,7/3,7	4,7/3,6	4,6/3,6	4,7/3,6	
Compressor type		Scroll						
Compressor max. primary flow/return	°C	65/58						
Compressor max. operating current	A	4,5	5,2	6,8	8,2	10,1	11,8	
Rated current VP	A	5,5	6,2	7,8	10,3	12,2 <sup>3)</sup>	13,9 <sup>3)</sup>	
Water volume - brine side (TS)	l	2,3	2,9	2,9	3,4	4,1	4,1	
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	1,9	1,9	1,9	2,3	2,7	2,7	
CO2-Equivalent <sup>2)</sup>	Tonnes	3,371	3,371	3,371	4,080	4,790	4,790	
Interrupt value switch HP	MPa	3,1 (31 bar)						
Noise level according to EN 12102	dB(A)	43,0	42,5	48,5	50,3	53,0	55,5	
Weight	kg	138	143	148	164	168	168	

<sup>1)</sup> According to EN14511 <sup>2)</sup>CTC EcoPart is **not** covered by the annual check for leaking refrigerant.

### Delivery includes

Cable Modbus LiYCY 15m  
Safety valve 1/2" 3 bar  
Filler manifold  
Brine vessel  
Rubber grommet  
2 x Edge mouldings

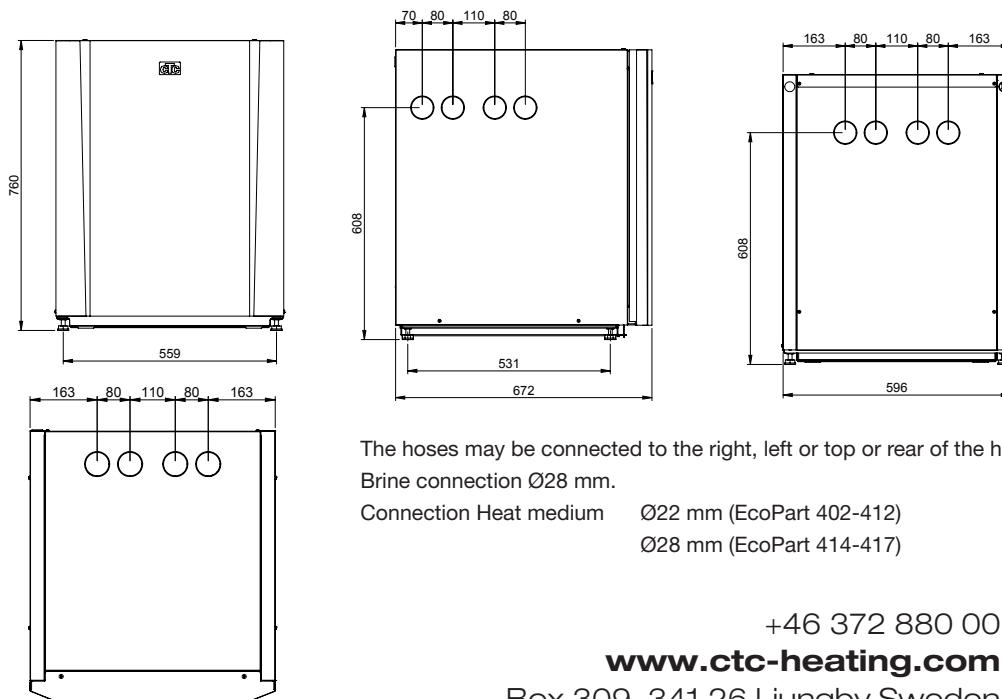
### Accessories

Boiler CTC EcoEI 1800\*  
Boiler CTC EcoEI 1550\*  
Control equipment CTC EcoLogic PRO  
All-in-one tank CTC EcoZenith I 550  
CTC Converter  
CTC Basic display  
\* Only EcoPart 406-412

### Art. no.

58 1201 001  
58 1202 002  
58 5888 301  
58 3700 001  
58 5821 301  
58 6043 401

### Dimensional drawing of the CTC EcoPart 400 heat pump



The hoses may be connected to the right, left or top or rear of the heat pump.

Brine connection Ø28 mm.

Connection Heat medium Ø22 mm (EcoPart 402-412)

Ø28 mm (EcoPart 414-417)

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