



MADE IN SWEDEN

# CTC EcoPart 600M

Speed-controlled, compact heat pumps for ground source, lake or geothermal heating. 2.5-16 kW, models 12 and 16



**CTC EcoPart 600M adapts automatically to the building's output requirements during the year. When high output is required, the output increases. When less output is required, the compressor shifts to lower output. This means that you will always achieve maximum savings.**

CTC EcoPart 600M is a compact heat pump with same level of performance as CTC GSi 12 and 16, but without control and water heating. CTC EcoPart 600M comes in two models, which means it can be used in most properties: 612M with an output range of 2.5-12 kW and 616M with 4-16 kW.

CTC EcoPart is flexible and is designed to be connected to new or existing systems. And it's no problem if you have an old heat pump that needs to be replaced, since the product automatically adapts to the existing borehole. Ground, bedrock and lakes are used as heat sources. The brine system can easily be connected to the right, left, top or rear of the heat pump.

If your ceiling is too low for a normal heat pump, or if you need very large volumes of hot water and heating, the perfect solution is to install CTC EcoPart 600M together with the CTC EcoZenith i550 Pro indoor module. This combination will give you a complete heat pump system with control and hot water heating and with a capacity of more than 600 litres of 40 °C hot water. Plus, the system can be expanded with pool and solar heating.

If you would like to connect CTC EcoPart 600M to your existing installation, just add the CTC EcoLogic Pro/Family control module. For particularly large energy requirements, up to ten heat pumps can be run together.

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

- Highest energy class A+++
- Compact, ultra-efficient, and speed-controlled
- Up to ten heat pumps can be run together
- Available in two sizes: 12-16 kW
- Perfect for spaces with low ceiling heights
- 65 °C primary flow temperature
- Flexible connection – the brine system can easily be connected to the right, left, top or rear



Find a CTC distributor in your country  
[www.ctc-heating.com](http://www.ctc-heating.com)

## Compatible control units for CTC EcoPart 600M – refer to the respective product's data sheet for more detailed information



### CTC EcoZenith i550 Pro

All-in-one tank with built-in intelligent control and EnergyFlex, which is able to control all components in one or several heating systems: solar heating, pool, additional hot water, buffer tanks and additional heating boilers. It is also able to control many different types of heat pumps and select which is to be used for optimal savings.

CTC EcoZenith i550 Pro has a hot water capacity of more than 600 litres, but is only 1.7 m tall, which means it can be installed in spaces with low ceiling heights. CTC EcoZenith i550 Pro has several connections on the sides, which provides neat and simple pipe installations along with possibilities to easily extend the system in the future.

### CTC EcoLogic Pro/Family

EnergyFlex heating system control. A unique control system that monitors and controls CTC's heat pumps, solar panels, external additional heat sources, additional tanks, pools, passive cooling, etc.

The CTC EcoLogic Pro/Family automatically handles the connection/disconnection of the existing boiler, and prioritises hot water production or heating.

**Pro:** Able to control up to ten CTC heat pumps and four heating systems.

**Family:** Can control two CTC heat pumps and two heating systems.



## Accessories

**Safety pressure switch**

Provides a warning in the event of low brine pressure

CTC no.:

585991301R

**Communication cable 10 m**

For when the control unit and heat pump are more than 5 metres apart

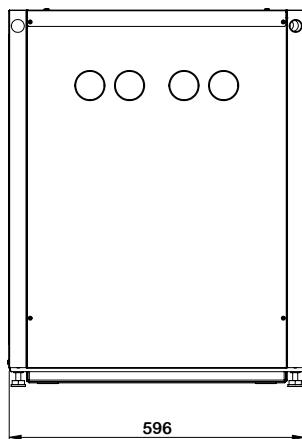
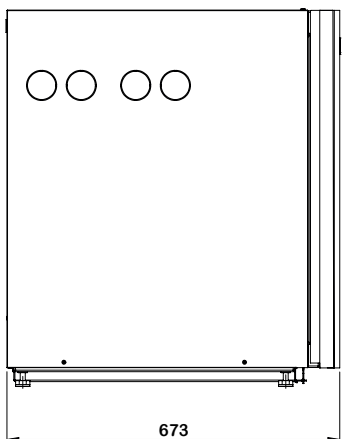
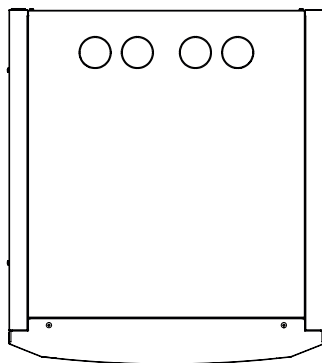
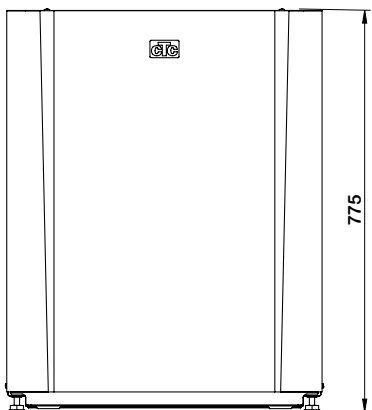
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**Raised Base 168 mm**

Base in the same design as the heat pump for more space underneath

586500301

## Dimensions diagram



### Delivery includes:

Heat pump and manual.

### Packaging includes:

Communication cable (5 m), filler manifold, safety valve, brine tank (only 612)

### Compatible control units:

CTC EcoLogic Pro/Family

### Compatible indoor modules:

CTC EcoZenith i550 Pro

### Connection

Brine: Ø 28 mm.

Heating medium pump: Ø22 mm (612)

Heating medium pump: Ø28 mm (616)

Technical data 3x400 V		612M	616M
CTC no.		588600001	588600002
Weight (packaged weight)	kg	170 (188)	172 (190)
Dimensions (depth x width x height)	mm	673x596x775	
Electrical Data, connection		400V 3N~ 50Hz	
Energy efficiency class in heating system (with CTC EcoLogic) @ 35/55 °C <sup>1)</sup> (A+++ à G)		A+++ / A+++	
Energy efficiency class heat pump @ 35/55 °C (A+++ à D)		A+++ / A+++	
Rated current (recommended fuse 13 A)	A	11.9	11.7
Output range (specified output cooling module)	kW	2.5 - 11.8	4 - 16
Enclosure class (IP)		IP X1	
Specified output @ 5/35   5/45   5/55 @ 50 rps (EN14511)	kW	7.1 / 6.65 / 6.36	12.26 / 11.22 / 10.55
COP @ 5/35   5/45   5/55 @ 50 rps (EN14511)	kW	5.62 / 4.26 / 3.57	5.07 / 3.87 / 3.14
Input power @ 0/35   0/45   0/55 @ 50 rps (EN14511)	kW	1.27 / 1.54 / 1.78	2.34 / 2.80 / 3.27
Specified output @ 0/35   0/45   0/55 @ 50 rps (EN14511)	kW	6.08 / 5.68 / 5.24	10.52 / 9.58 / 8.90
COP @ 0/35   0/45   0/55 @ 50 rps (EN14511)		4.78 / 3.68 / 2.95	4.50 / 3.43 / 2.72
SCOP (P <sub>designth</sub> ) @ cold climate 35/55 °C (EN14825)		5.4 / 4.1	5.2 / 4.0
SCOP (P <sub>designth</sub> ) @ moderate climate 35/55 °C (EN14825)		5.5 / 4.3	5.5 / 4.2
Refrigerant quantity (R407C, fluorinated greenhouse gas GWP 1774)	kg	2.4	2.2
CO <sub>2</sub> equivalent	tonnes	4.258	3.903
Sound power L <sub>WA</sub> @ 0/35   0/55 (EN 12102)	dB(A)	39 / 41	36 / 40

Energy labels and data sheets can be downloaded from [www.ctc-heating.com/Ecodesign](http://www.ctc-heating.com/Ecodesign)