

EcoPart 600M



Enertech Group

Compact Heat Pump

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 that delivers the performance you would expect. With COP in excess of 5 (see data table) and low noise operation it is ideal for even the smallest of locations. 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.

Compact physical size allows easy installation even in the tightest of spaces. 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.

Key features

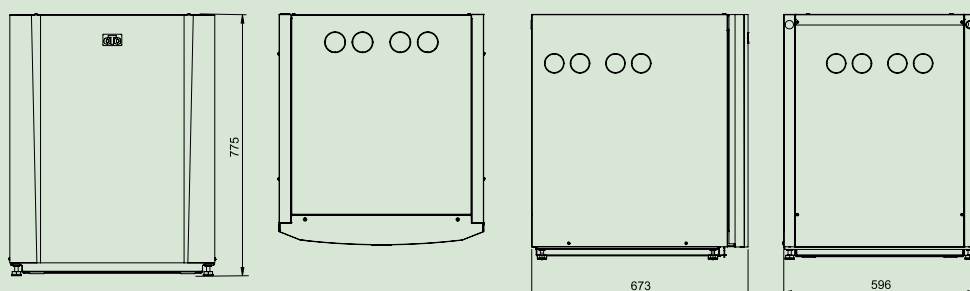
- Highest energy class A+++
- Compact, ultra-efficient, and speed-controlled
- Up to ten heat pumps can be run together
- Available in two sizes: 12-16 kW
- Perfect for spaces with low ceiling heights
- 65°C primary flow temperature
- Flexible connection - the brine system can easily be connected to the right, left, top or rear
- High efficiency with a COP in excess of 5
- Quiet scroll compressor for low noise operation

EcoPart 600M

TECHNICAL DATA		EcoPart 612M	EcoPart 616M
3x400 V			
CTC no.		588600001	588600002
Weight (packaged weight)	kg	170 (188)	172 (190)
Dimensions (H x W x D)	mm		775 x 596 x 673
Electrical Data, connection			400V 3N~ 50Hz
Energy efficiency class in heating system (with CTC EcoLogic) @ 35/55°C (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 _{designh}) @ cold climate 35/55°C (EN14825)		5.4 / 4.1	5.2 / 4.0
SCOP (P _{designh}) @ 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 ₂ equivalent	tonnes	4.258	3.903
Sound power L _{WA} @ 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

Dimensional drawing of the CTC EcoPart 600M



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: Ø28 mm.

Heating medium pump: Ø22 mm (612)

Heating medium pump: Ø28 mm (616)



CTC Enertech Group

Ten Acres,

Berry Hill Industrial Estate,

Droitwich Spa,

Worcestershire WR9 9AQ

Tel: 01905 791610 Fax: 01905 794017

Email: info@ctc-uk.com www.ctc-uk.com

