GROUND-TO-WATER INVERTER HEAT PUMPS

EcoPart 612M, 616M

**Energy Efficiency Class for the set with controller under average climate conditions for low-temperature application*

A heat pump draws energy from the ground and transfers it to heating water for space and DHW heating.

The unit is placed inside a house and connected with the ground circuits with 2 pipes. Its main advantage is a stable output and COP even under fierce frost, it also excels at a very quiet operation.

This is a 3-phase heat pump with a scroll compressor and speed control (inverter), offering a long service life. The output of the Heat Pump keeps adjusting to the heating requirements throughout the year.

- New scroll compressor with speed control and a long service life
- Smart defrost
- SCOP 5.4
- Energy efficiency class with controller A+++
- Suitable for a 3-phase PV system

These Heat Pumps install easily, offering a high COP and an extremely low noise level. The feature of smart defrosting keeps monitoring the condition of the Heat Pump and starts defrosting for the shortest necessary time only when it is really needed. This contributes to a high efficiency of these Heat Pumps.

It can operate without a thermal store, with suitable hot water tanks.
Control of the house heating and communication with the heat pump is provided by an external IR controller.

TECHNICAL DATA			EcoPart 612M	EcoPart 616M
Output		[kW]	2.5-11.8	4-16
SCOP		[-]	5.4	5.2
Primary circuit/ HP flow temp. at B0/W35, 20 rps	**Heat output**	[kW]	2.27	4.20
	Power input	[kW]	0.33	0.9
	COP	[-]	6.94	4.66
Primary circuit/ HP flow temp. at B0/W35, 50 rps	**Heat output**	[kW]	5.91	10.52
	Power input	[kW]	1.30	2.34
	COP	[-]	4.56	4.50
Primary circuit/ HP flow temp. at B0/W35, 100 rps	**Heat output**	[kW]	12.14	15.60
	Power input	[kW]	2.42	4.19
	COP	[-]	5.01	3.72
Dimensions and weight	**Width**	[mm]	596	596
	Height	[mm]	770	770
	Depth	[mm]	673	673
	Weight	[kg]	170	172
Code		[-]	18259	18290

EcoPart 406-412 Heat Pumps are supplied incl. circulation pumps. They shall be installed exclusively either with CSE IR pump stations – see page 24, or with RegulusBOX indoor unit - see page 20, or with RegulusHBOX indoor unit - see page 22.