

GROUND-TO-WATER ON/OFF HEAT PUMPS

EcoPart 406 - 417

Three-phase ground-to-water on/off heat pumps with an output range of 6, 8, 10, 12, 14 and 17 kW. Among the technical parameters, the high heating factor stands out, reaching values of up to 5.5 in low-temperature systems. Thanks to the latest technologies, especially the new electronic expansion valve, the flow temperature of the heating water is up to 65°C. Above all, this temperature guarantees maximum comfort in DHW heating.

It can work with the traditional thermal stores of the PS series and hot water storage tanks of the RBC HP series. EcoPart 406 - 410 can also work with hot water tanks of the R2DC series.

- SCOP up to 4.8
- Energy efficiency class with controller A+++
- Extremely high flow temperature of heating water
- Constant performance and SCOP even in extreme cold



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

TECHNICAL DATA			EcoPart 406	EcoPart 408	EcoPart 410	EcoPart 412	EcoPart 414	EcoPart 417
Seasonal coefficient of performance SCOP		[-]	4,7	4,7	4,7	4,8	4,6	4,7
Primary circuit/HP flow temp. at BO/W25	Heat output	[kW]	6,1	8,5	10,4	12,3	14,63	--
	Power input	[kW]	1,20	1,72	1,87	2,23	2,79	--
	COP	[-]	5,10	4,93	5,55	5,51	5,25	--
Primary circuit/HP flow temp. at BO/W35	Heat output	[kW]	5,9	8,2	10	11,8	14,5	16,76
	Power input	[kW]	1,29	1,79	2,17	2,57	3,19	3,71
	COP	[-]	4,57	4,58	4,60	4,60	4,54	4,52
Primary circuit/HP flow temp. at BO/W55	Heat output	[kW]	5,2	7,6	9,3	11,0	13,4	15,9
	Power input	[kW]	1,88	2,54	3,12	3,72	4,54	5,17
	COP	[-]	2,76	2,99	2,98	2,96	2,95	3,07
Dimensions and weight	Width	[mm]	600	600	600	600	600	600
	Height	[mm]	760	760	760	760	760	760
	Depth	[mm]	672	672	672	672	672	672
	Weight	[kg]	138	143	148	164	168	172
Code		[-]	12647	12648	12649	12650	12651	12652

COP given according to EN 14511 incl. power input for both the circulation pumps.

Each heat pump is fitted with a max. current limiter for compressor startup.

The heat pump comes with integrated primary circuit circulation pump (for deep bore / underground collector). EcoPart 406-412 heat pumps are supplied without circulation pumps; they shall be installed exclusively either with CSE IR pump stations (see page 24), or with RegulusBOX indoor unit (see page 18). EcoPart 414-435 heat pumps are equipped with circulation pumps already integrated inside.

GROUND-TO-WATER ON/OFF HEAT PUMPS

EcoPart 435

EcoPart 435 ground-to-water heat pump is designed for space and DHW heating in large buildings of heat loss up to 44 kW. It consists of two 17 kW heat pumps connected in parallel.

Heating control and communication with the heat pump is ensured by an external IR controller.

- SCOP 4.7
- Energy efficiency class with controller A+++



Energy efficiency class for the set with controller under average climate conditions for low temperature application



TECHNICAL DATA

EcoPart 435

SCOP		[-]	4.7
Primary circuit/ HP flow temp. at B0/W35	Heat output	[kW]	32.48
	Power input	[kW]	7.44
	COP	[-]	4.36
Primary circuit/ HP flow temp. at B0/W45	Heat output	[kW]	32.28
	Power input	[kW]	8.94
	COP	[-]	3.61
Primary circuit/ HP flow temp. at B0/W55	Heat output	[kW]	31.74
	Power input	[kW]	10.34
	COP	[-]	3.07
Dimensions and weight	Width	[mm]	596
	Height	[mm]	1760
	Depth	[mm]	680
	Weight	[kg]	359
Code		[-]	15903

COP given according to EN 14511 incl. power input for the circulation pumps.

The heat pump is fitted with a max. current limiter for compressor startup.

The heat pump comes with integrated primary circuit circulation pump (for deep bore / underground collector) and with circulation pumps already integrated inside.