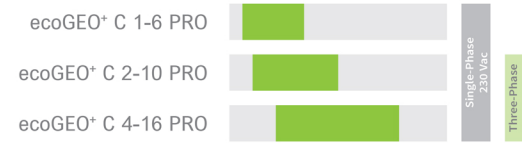
ecoGEO⁺ Compact PRO

Power outputs

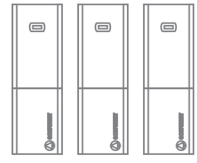


Models

ecoGEO⁺ C1	ecoGEO⁺ C2	ecoGEO⁺ C3	ecoGEO⁺ C4
DHW *	DHW *	DHW *	DHW *
Heating	Heating	Heating	Heating
Pool Heating	Pool Heating	Pool Heating	Pool Heating
	Passive Cooling	Active Cooling	Passive Cooling
			Active Cooling

Services

Cascade



Emitters

Management of production services

Benefits

Indoor ground source system with R290

ecoGEO⁺ B/C PRO is the only heat pump water-to-water with R290 refrigerant, available to be placed indoor.

Thanks to installing the unit indoors, it's possible to increase the system's lifespan and reduce the quantity of refrigerant needed to achieve the desired thermal power output.

HTR technology to achieve the highest efficiency

ecoGEO⁺ Basic & ecoGEO⁺ Compact are compatible with the HTR Technology. Thanks to the HTR, the heat pump is able to produce simultaneous DHW & heating during the winter and DHW & cooling during the summer, achieving an incredible performance.

Using the HTR tecnology, it's possible to have even higher efficiencies in a ground source system, assuring a DHW temperature over 70ºC, increasing energy savings.

Inverter water-to-water heat pumps with R290 refrigerant

ecoGEO⁺ Compact PRO

Power supply		Heat pump model							
		C1		C2		C3		C4	
		EH	HTR EH	EH	HTR EH	EH	HTR EH	EH	HTR EH
ecoGEO⁺ 1-6 PRO									
230 Vac	Ref.	91012		91022		91032		91042	
	Price	10.280 €		10.850 €		10.980 €		11.510 €	
ecoGEO⁺ 2-10 PRO									
230 Vac	Ref.	31212/P	31210/P	31222/P	31220/P		31230/P		31240/P
	Price	12.650 €	13.220 €	13.350 €	13.900 €		14.030 €		14.860 €
400 Vac	Ref.	33212/P	33210/P	33222/P	33220/P		33230/P		33240/P
	Price	13.040 €	13.580 €	13.720 €	14.250 €		14.410 €		15.220 €
ecoGEO⁺ 4-16 PRO									
230 Vac	Ref.	31312/P	31310/P	31322/P	31320/P		31330/P		31340/P
	Price	14.190 €	14.730 €	14.990 €	15.540 €		15.540 €		16.220 €
400 Vac	Ref.	33312/P	33310/P	33322/P	33320/P		33330/P		33340/P
	Price	14.550 €	15.110 €	15.380 €	15.930 €		15.930 €		16.600 €

R290 · Inverter · Mixte · easynet · PV

FEATURES - ecoGEO⁺ Compact PRO				ecoGEO⁺ 1-6 PRO				ecoGEO⁺ 2-10 PRO				ecoGEO⁺ 4-16 PRO			
				C1	C2	C3	C4	C1	C2	C3	C4	C1	C2	C3	C4
APPLICATION		Place of installation	-	Indoor											
	(1)	Collection system	-	Geothermal / Phreatic											
		DHW, Heating and Pool heating	-		▪				▪				▪		
		Integrated passive cooling	-	-	▪	-	▪	-	▪	-	▪	-	▪	-	▪
		Integrated active cooling	-	-		▪		-		▪		-		▪	
PERFORMANCE		Compressor modulation range	%	12,5 - 100				15 - 100				15 - 100			
	(2) (10)	Heating power output / COP B0W35	kW / -	1,0 - 6,0 / 4,3				1,9 - 10,2 / 4,3				3,1 - 16,1 / 4,6			
	(2) (10)	Heating power output / COP B0W55	kW / -	1,0 - 5,5 / 2,7				2,5 - 9,3 / 2,7				3,7 - 14,4 / 3,0			
	(2) (10)	Cooling power output / EER B35W7	kW / -	-	1,0 - 6,0 / 4,4			-	1,6 - 8,6 / 4,1			-	2,2 - 13,8 / 3,7		
	(5)	Max. DHW temperature without / with support	°C	75 / 80				70 / 80				70 / 80			
	(6)	Maximum noise power level (L_{WA})	dB (A)	44				46				46			
	(10)	Energy label / ηs / SCOP W35 average climate with control	-	A+++ / 178% / 4,65				A+++ / 183% / 4,78				A+++ / 186% / 4,85			
	(10)	Energy label / ηs / SCOP W55 average climate with control	-	A++ / 134% / 3,56				A++ / 140% / 3,70				A++ / 146% / 3,84			
OPERATION LIMITS		Distribution / Set heating outlet temperature range	°C	10 - 75 / 20 - 75				10 - 70 / 20 - 70				10 - 70 / 20 - 70			
		Distribution / Set cooling outlet temperature range	°C	-	5 - 30 / 7 - 30			-	5 - 30 / 7 - 30			-	5 - 30 / 7 - 30		
		Collection temperature range in heating / cooling mode	°C	-22 - 35 / 10 - 70											
		Minimum / Maximum refrigerant circuit pressure	bar	0,5 / 32,0				1,0 / 32,0				1,0 / 32,0			
		Collection / Production circuit pressure range (preload)	bar	0,5 - 3,0 (0,7) / 0,5 - 3,0 (1,5)											
		DHW tank capacity / maximum pressure	l / bar	165 / 8,0											
WORKING FLUIDS		R290 refrigerant load	kg	0,15				0,60				0,86			
		Compressor oil type / load	kg	PZ46M / 0,30				HXL4467 / 0,74				HXL4467 / 1,18			
		Nominal collection circuit flow rate	m^3/h	1,3				2,2				3,6			
		Nominal production circuit flow rate	m^3/h	1,0				1,8				2,8			
CONTROL ELECTRICAL DATA	(8)	1/N/PE 230 V / 50-60 Hz	-	▪				▪				▪			
	(9)	Recommended external protection	-	-				C16A				C16A			
		Transformer primary circuit fuse	A	0,5				0,5				0,5			
		Transformer secondary circuit fuse	A	2,5				2,5				2,5			
HEAT PUMP ELECTRICAL DATA: SINGLE-PHASE VERSION	(8)	1/N/PE 230 V / 50-60 Hz	-	▪				▪				▪			
	(9)	Recommended external protection	-	C16A				C25A				C32A			
	(2)	Maximum consumption B0W35	kW / A	1,6 / 6,8				2,9 / 12,4				4,4 / 19,2			
	(2)	Maximum consumption B0W55	kW / A	2,0 / 8,6				3,7 / 15,9				5,5 / 23,9			
	(7)	Minimum / Maximum starting current	A	0,6 / 1,8				2,8 / 5,8				2,6 / 12,5			
		Correction of cos Ø	-	0,96 / 1				0,96 / 1				0,96 / 1			
HEAT PUMP ELECTRICAL DATA: THREE-PHASE VERSION	(8)	3/N/PE 400 V / 50-60 Hz	-	-				▪				▪			
	(9)	Recommended external protection	-	-				C16A				C16A			
	(2)	Maximum consumption B0W35	kW / A	-				2,9 / 4,1				4,4 / 6,4			
	(2)	Maximum consumption B0W55	kW / A	-				3,7 / 5,3				5,5 / 7,9			
	(7)	Minimum / Maximum starting current	A	-				0,9 / 4,2				0,9 / 4,2			
		Correction of cos Ø	-	-				0,96 / 1				0,96 / 1			
DIMENSIONS & WEIGHT		Height x width x depth	mm	1845x600x720				1943x609x724				1943x609x724			
		Empty weight (without packaging)	kg	186	194	186	194	260	270	260	270	260	270	260	270

1. Phreatic collection systems require an intermediate heat exchanger.
2. In compliance with EN 14511, including circulation pumps and the compressor driver consumptions.
3. Coll. and prod. flow rates according to EN 14511.
4. Considering a heat slope from 20°C to 50°C in absence of consumption.
5. Considering support provided by the emergency electrical heater.
6. In compliance with EN 12102.
7. Starting current depends on the working conditions of the hydraulic circuits.
8. The admissible voltage range for proper operation of the heat pump is ±10%.
9. Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more detailed information.
10. Certification in process.