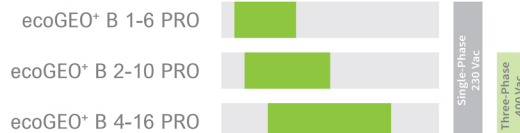


ecoGEO+ Basic PRO



Power outputs



Modules

ecoGEO+ B1	ecoGEO+ B2	ecoGEO+ B3	ecoGEO+ B4
DHW * Heating Pool Heating	DHW * Heating Pool Heating Passive Cooling	DHW * Heating Pool Heating Active Cooling	DHW * Heating Pool Heating Passive Cooling Active Cooling

* DHW Production using an external DHW tank

Services



Emitters



Management of production services



Cascade



Benefits



► Indoor ground source system with R290

ecoGEO+ B/C PRO is the only water-to-water heat pump 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 technology, it's possible to have even higher efficiencies in a ground source system, assuring a DHW temperature over 70°C, increasing energy savings.

FEATURES - ecoGEO ⁺ Basic PRO		ecoGEO ⁺ 1-6 PRO				ecoGEO ⁺ 2-10 PRO				ecoGEO ⁺ 4-16 PRO							
		B1	B2	B3	B4	B1	B2	B3	B4	B1	B2	B3	B4				
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				-						
	⁽⁶⁾ 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 / η _s / SCOP W35 average climate with control	-	A+++ / 178% / 4,65				A+++ / 183% / 4,78				A+++ / 186% / 4,85						
⁽¹⁰⁾ Energy label / η _s / 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	-														
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	⁽⁶⁾ 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	⁽⁶⁾ 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	⁽⁶⁾ 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	1060x550x602				1051x609x716				1051x609x716						
	Empty weight (without packaging)	kg	125	133	125	133	195	205	195	205	195	205	195	205			

- Phreatic collection systems require an intermediate heat exchanger.
- In compliance with EN 14511, including circulation pumps and the compressor driver consumptions.
- Coll. and prod. flow rates according to EN 14511.
- Considering a heat slope from 20°C to 50°C in absence of consumption.
- Considering support provided by the emergency electrical heater.
- In compliance with EN 12102.
- Starting current depends on the working conditions of the hydraulic circuits.
- The admissible voltage range for proper operation of the heat pump is ±10%.
- 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.
- Certification in process.

