



1. Heat pump module
2. Top cover
3. Front panel
4. Heating/cooling outlet
5. Heating/cooling inlet
6. Brine outlet
7. Brine inlet
8. DHW tank outlet
9. DHW tank inlet
10. Power supply

ecoGEO B geothermal heat pumps TECNICAL DATA		Unit	ecoGEO B1		ecoGEO B2		ecoGEO B3	
			3-12	5-22	3-12	5-22	3-12	5-22
Application	Heating and DHW	-	•	•	•	•	•	•
	Active cooling	-					•	•
	Integrated free cooling	-			•	•		
1-Phase power supply	230 V / 50 Hz, 1/N/PE~	-	•	•	•	•	•	•
	Magneto-thermal protection	A	32	40	32	40	32	40
3-Phase Power supply	400 V / 50 Hz, 3/N/PE~	-		•		•		•
	Magneto-thermal protection	A	--	16	--	16	--	16
Refrigerant	Type	-	R410A					
Components	Compressor	-	Scroll with inverter. Copeland					
	Expansion valve	-	Electronic. Carel					
	Heat exchangers	-	Plates. Alfa Laval					
	Circulating pumps	-	High efficiency and variable speed. Wilo (Class A)					
	Built-in expansion vessels	-	Heating circuit (12 l) (and brine circuit in ecoGEO B1 (5 l))					
Efficiency	Heating output ¹	kW	3-15	5-26	3-15	5-26	3-15	5-26
	COP ¹	-	5,3	5,66	5,3	5,66	5,3	5,66
	Heating output ²	kW	3-14	5-23,5	3-14	5-23,5	3-14	5-23,5
	Power consumption ²	kW	0,7-3,7	1,4-5,5	0,7-3,2	1,4-5,5	0,7-3,2	1,4-5,5
	COP ²	-	4,6	4,9	4,6	4,9	4,6	4,9
	EER ³	-	--	--	--	--	6,1-6,9	6,1-6,9
	Active cooling output ³	kW	--	--	--	--	4-16,3	6,9-30
Refrigerant circuit	Passive cooling output	kW	--	--	6	6	--	--
	Refrigerant charge	kg	1,35	1,70	1,35	1,70	1,50	2,00
	Maximum working pressure	bar	42					
	Compressor oil type	-	POE					
Brine circuit	Compressor oil charge	kg	1,18					
	Maximum/minimum temperature	°C	60/20					
	Maximum working pressure	bar	3					
Heating/cooling circuit	Nominal flow rate	l/h	1200 - 4500					
	Maximum/minimum temperature	°C	20/-10					
	Maximum working pressure	bar	3					
	Nominal flow rate	l/h	1200 - 4500					
DHW	Recommended antifreeze ⁵	-	Propylene-glycol/water with freezing point -17 ±2 °C					
	Maximum temperature without support	°C	55					
	Maximum temperature with support	°C	70					
Soundproofing	Noise emission level ⁴	dB	54 (40)					
Dimensions	Height x Width x Depth	mm	1000 x 600 x 700					
Weight	Unladen weight (without assembly)	kg	170	175	170	175	175	180

1) According to EN 14511, 5/2 – 30/35 °C (including circulation pumps and inverter with 1-Phase power supply).
 2) According to EN 14511, 0/-3 – 30/35 °C (including circulation pumps and inverter with 1-Phase power supply).
 3) According to EN 14511, 7/12 – 30/35 °C (including circulation pumps and inverter with 1-Phase power supply).
 4) According to EN 14511. Values in brackets include kit sound shell for compressor.
 5) Always consult regional regulations before using antifreeze.