

In the Table 12.2 you can find the main technical specifications of the heat pumps ecoGEO.C1, C2 y C3.

Geothermal heat pump ecoGEO C TECHNICAL DATA		Unit	ecoGEO C1		ecoGEO C2		ecoGEO C3	
			3-12	5-22	3-12	5-22	3-12	5-22
Application	Heating and DHW	-	•	•	•	•	•	•
	Built-in DHW tank, 170l	-	•	•	•	•	•	•
	Active cooling	-					•	•
	Built-in free cooling	-			•	•		
Single-phase Power supply	230 V / 50 Hz, 1/N/PE~	-	•	•	•	•	•	•
	Magnetothermal protection	A	32	40	32	40	32	40
Three-phase power supply	400 V / 50 Hz, 3/N/PE~	-		•		•		•
	Magnetothermal protection	A	--	16	--	16	--	16
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	R410A
Components	Compressor	-	Scroll with Copeland inverter					
	Expansion valve	-	Carel Electronics					
	Heat exchangers	-	Alfa Laval plates					
	Circulation pumps	-	Wilo High-efficiency variable speed (Class A)					
	Expansion vessels	-	Heating-cooling circuit and brine circuit					
Eficiencia	Heating output ¹	kW	3-15	5-26	3-15	5-26	3-15	5-26
	Heating output ²	kW	3-14	5-23,5	3-14	5-23,5	3-14	5-23,5
	Electric 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
	Cooling capacity ³	kW	--	--	--	--	4-16,3	6,9-30
	Free cooling capacity	kW	--	--	6	6	--	--
Refrigerant circuit	Refrigerant charge	kg	1,35	1,70	1,35	1,70	1,50	2,00
	Maximum working pressure	bar	42	42	42	42	42	42
	Compressor oil type	-	POE	POE	POE	POE	POE	POE
	Compressor oil charge	kg	1,18	1,18	1,18	1,18	1,18	1,18
Heating-cooling circuit	Maximum/minimum temperature	°C	60/20					
	Maximum working pressure	bar	3					
	Nominal flow rate	l/h	1200 - 4500					
Brine circuit	Maximum/minimum temperature	°C	20/-10					
	Maximum working pressure	bar	3					
	Nominal flow rate	l/h	1200 - 4500					
	Recommended antifreeze ⁵	-	Propylene glycol / freezing point of water at -17 ±2 °C					
DHW	Maximum DHW temperature	°C	55	55	55	55	55	55
	Maximum legionella temperature	°C	70	70	70	70	70	70
Soundproofing	Noise emission level ⁴	dB	42	42	42	42	42	42
Dimensions	Height x width x depth	mm	1800 x 600 x 700					
Weight	Unladen weight (without packaging)	kg	270	275	270	275	275	280

1) According to EN 14511, 5/2 – 30/35 °C (including circulation pumps, inverter and with single-phase power supply).

2) According to EN 14511, 0/-3 – 30/35 °C (including circulation pumps, inverter and with single-phase power supply).

3) According to EN 14511, 7/12 – 30/35 °C (including circulation pumps, inverter and with single-phase power supply).

4) According to EN 14511. Values in parentheses include the compressor's acoustic isolation kit.

5) Please, always check the regional regulations before using the antifreeze.

Table 12.2. Technical specifications of the ecoGEO C1, C2 and C3 heat pumps .