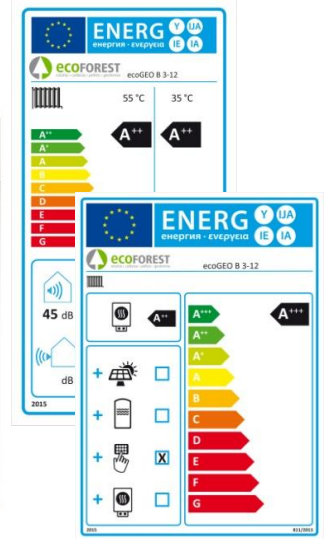


ecoGEO BASIC 3-12 kW



- Modulating thermal power control over a wide range (25-100%) and modulating flow control in brine and production circuits (20-100%)
- Compact design includes brine and production circulation pumps and expansion vessels of 8 and 12 liters in brine and production circuits respectively
- High Temperature Recovery system (HTR) that allows simultaneously production of heating/cooling and DHW and DHW production up to 70 °C without electrical support
- Integrated management of up to 4 different outlet temperatures, two different buffer tanks (1 for heating and 1 for cooling), 1 DHW tank and 1 pool
- Integrated management of modulating air units, both in air source systems and in hybrid (air source + ground source) systems
- Integrated management of external auxiliary systems like boilers or electrical resistances
- Integrated management of up to 3 units in cascade
- Integrated energy meters for electrical consumption, heating and cooling power, COP and monthly and annual SPF measurement



TECHNICAL DATA		Unit	B1 3-12	B2 3-12	B3 3-12	B4 3-12
Application	Installation site	-	Interior	Interior	Interior	Interior
	Type of brine system	-	Ground source/Air source/Hybrid			
	Heating	-	✓	✓	✓	✓
	DHW with external tank	-	✓	✓	✓	✓
	High Temperature Recovery system HTR	-	Optional	Optional	✓	✓
	Active cooling integrated	-			✓	✓
	Passive cooling integrated	-		✓		✓
	Control of external passive cooling	-	✓	✓	✓	✓
Emergency electrical resistance Integrated	-	Optional	Optional	Optional	Optional	
Features	Modulation range of the compressor	%	25 to 100	25 to 100	25 to 100	25 to 100
	Heating output ¹ , B0W35	kW	3 to 14	3 to 14	3 to 14	3 to 14
	COP ¹ , B0W35	-	4,6	4,6	4,6	4,6
	Active cooling power ¹ , B35W7	kW	--	--	4 to 16	4 to 16
	EER ¹ , B35W7	-	--	--	5,0	5,0
	Passive cooling power ² , B16W19/B16W23	kW	--	4/9,3	--	4/9,3
	Max. DHW temperature without support	°C	58	58	58	58
	Max. DHW temperature with support ³	°C	70	70	70	70
Noise emission level ⁴	dB	35 to 45	35 to 45	35 to 45	35 to 45	
Energy label with control	-	A+++	A+++	A+++	A+++	
Working limits	Heating outlet temperature	°C	20 to 60	20 to 60	20 to 60	20 to 60
	Cooling outlet temperature	°C	4 to 35	4 to 35	4 to 35	4 to 35
	Brine inlet temperature	°C	-10 to 35	-10 to 35	-10 to 35	-10 to 35
	Refrigerant circuit pressure	bar	2 to 45	2 to 45	2 to 45	2 to 45
	Heating/cooling circuit pressure	bar	0,5 to 3	0,5 to 3	0,5 to 3	0,5 to 3
	Brine circuit pressure	bar	0,5 to 3	0,5 to 3	0,5 to 3	0,5 to 3
Working fluids	Type of refrigerant/Refrigerant charge	kg	R410A/1,35	R410A/1,35	R410A/1,50	R410A/1,50
	Type of compressor oil/Oil charge	kg	POE/1,18	POE/1,18	POE/1,18	POE/1,18
	Recommended antifreeze for brine circuit ⁵	-	Propylene glycol	Propylene glycol	Propylene glycol	Propylene glycol
Electrical data: Single-phase power supply	1/N/PE 230 V / 50-60 Hz	-	✓	✓	✓	✓
	Maximum external recommended protection ⁶	A	C25A	C25A	C25A	C25A
	Maximum electrical consumption ¹ , B0W35	kW/A	3,3/14,4	3,3/14,4	3,3/14,4	3,3/14,4
	Maximum electrical consumption ¹ , B0W55	kW/A	5,1/22,4	5,1/22,4	5,1/22,4	5,1/22,4
	Starting current	A	6,8	6,8	6,8	6,8
Dimensions and weight	cos φ correction	-	0,96-1	0,96-1	0,96-1	0,96-1
	Height x width x depth	mm	1060 x 600 x 710	1060 x 600 x 710	1060 x 600 x 710	1060 x 600 x 710
Other Data	Unladen weight (without packaging)	kg	185	193	185	193
	Time required for reversing the cycle	Min and sec	--	--	1' 15"	1' 15"

1) According to EN 14511, including circulation pumps and inverter.

2) Considering flow of 2500 l/h in the brine and water circuits.

3) Considering a support with the emergency electrical heater or with HTR system. The maximum DHW temperature with HTR system can be limited by compressor discharge temperature.

4) According to EN 12102.

5) Always check regional regulations before using the antifreeze.

6) The maximum consumption can vary significantly with operation conditions, or if the operating range of the compressor is limited. See the service manual for more details.