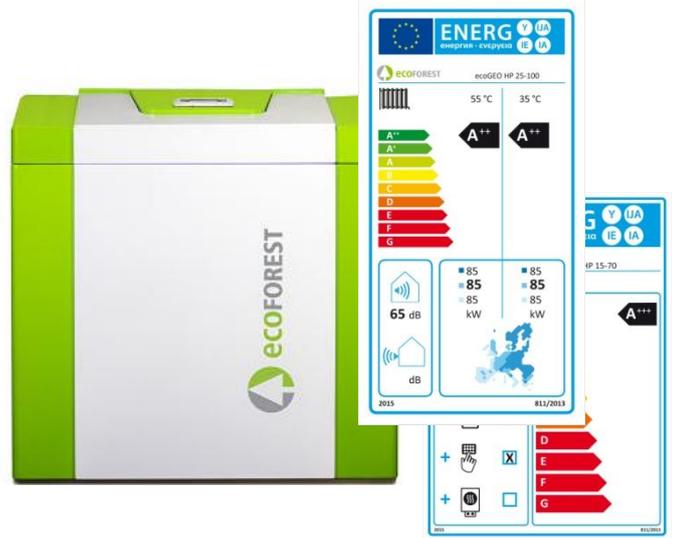


ecoGEO HP 25-100 kW



- 1) Modulating thermal power control over a wide range (25-100%) and modulating flow control in brine and production circuits (20-100%)
- 2) Integrated management of simultaneously heating and cooling production
- 3) Integrated management of up to 5 different outlet temperatures, two different buffer tanks (1 for heating and 1 for cooling), 1 DHW tank and 1 pool
- 4) Integrated management of external auxiliary systems like boilers or electrical resistances
- 5) Integrated management of up to 6 units in cascade
- 6) Cascade management with maximum efficiency range tracking technology
- 7) Integrated energy meters for electrical consumption, heating and cooling power, COP and monthly and annual SPF measurement



TECHNICAL DATA		Unit	HP1 25-100	HP3 25-100
Application	Installation site	-	Interior	Interior
	Type of brine system	-	Ground source	Ground source
	Heating	-	✓	✓
	DHW with external tank	-	✓	✓
	Active cooling integrated	-	✓	✓
Features	Control of external passive cooling	-	✓	✓
	Modulation range of the compressor	%	25 to 100	25 to 100
	Heating output ¹ , B0W35	kW	21,1 to 86,7	21,1 to 86,7
	COP ¹ , B0W35	-	4,5	4,5
	Active cooling power ¹ , B35W7	kW	--	28,3 to 116,9
	EER ¹ , B35W7	-	--	5,2
	Max. DHW temperature without support	°C	60	60
	Max. DHW temperature with support ²	°C	70	70
	Noise emission level ³	dB	47 to 65	47 to 65
	Energy label with control	-	A+++	A+++
Working limits	Heating outlet temperature	°C	20 to 60	20 to 60
	Cooling outlet temperature	°C	-20 to 35	-20 to 35
	Brine inlet temperature	°C	-20 to 35	-20 to 35
	Refrigerant circuit pressure	bar	2 to 45	2 to 45
	Heating/cooling circuit pressure	bar	0,5 to 3	0,5 to 3
	Brine circuit pressure	bar	0,5 to 3	0,5 to 3
Working fluids	Type of refrigerant/Refrigerant charge	kg	R410A/8,5	R410A/9,1
	Type of compressor oil/Oil charge	kg	POE/6,7	POE/6,7
	Recommended antifreeze for brine circuit ⁴	-	Propylene glycol	Propylene glycol
	Brine circuit flow ¹ , B0W35 (ΔT = 3 °C)	l/h	4765 to 19360	4765 to 19360
	Production circuit flow ¹ , B0W35 (ΔT = 5 °C)	l/h	3625 to 14935	3625 to 14935
Electrical data: Three-phase power supply	3/N/PE 400 V / 50-60 Hz	-	✓	✓
	Maximum external recommended protection ⁵	A	C50A	C50A
	Maximum electrical consumption ¹ B0W35	kW/A	20,3/31,8	20,3/31,8
	Maximum electrical consumption ¹ B0W55	kW/A	29,6/45,1	29,6/45,1
	Starting current	A	15,7	15,7
Dimensions and weight	cos φ correction	-	0,96-1	0,96-1
	Height x width x depth	mm	1000 x 950 x 900	1000 x 950 x 900
Other Data	Unladen weight (without packaging)	kg	350	355
	Time required for reversing the cycle	Min and sec	--	2' 10"

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

2) Considering a support with an auxiliary system as a boiler, electrical heater, etc.

3) According to EN 12102.

4) Always check regional regulations before using the antifreeze.

5) 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.