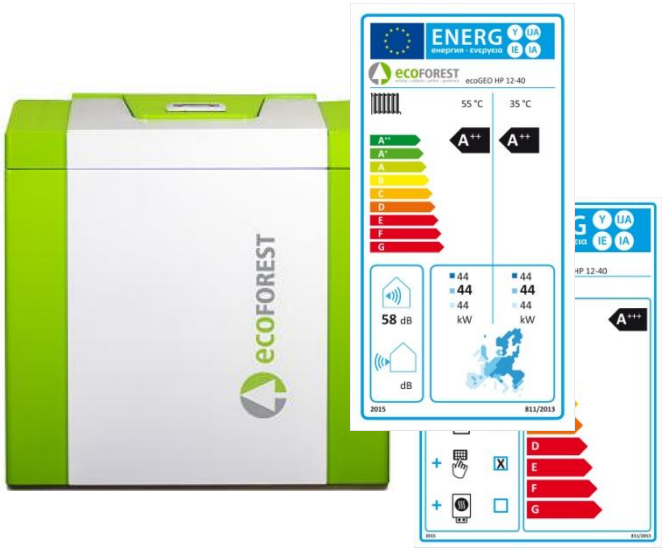
ecoGEO HP 12-40 kW

- **Modulating thermal power control over a wide range (25-100%) and modulating flow control in brine and production circuits (20-100%)**
- **Integrated management of simultaneously heating and cooling production**
- **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**
- **Integrated management of external auxiliary systems like boilers or electrical resistances**
- **Integrated management of up to 6 units in cascade**
- **Cascade management with maximum efficiency range tracking technology**
- **Integrated energy meters for electrical consumption, heating and cooling power, COP and monthly and annual SPF measurement**



	TECHNICAL DATA	Unit	HP1 12-40	HP3 12-40
Application	Installation site	-	Interior	Interior
	Type of brine system	-	Ground source	Ground source
	Heating	-	✓	✓
	DHW with external tank	-	✓	✓
	Active cooling intregated	-		✓
	Control of external passive cooling	-	✓	✓
Features	Modulation range of the compressor	%	25 to 100	25 to 100
	Heating output[1], B0W35	kW	10,7 to 44,6	10,7 to 44,6
	COP[1], B0W35	-	4,76	4,76
	Active cooling power[1], B35W7	kW	--	12,1 to 49
	EER[1], B35W7	-	--	4,9
	Max. DHW temperature without support	ºC	60	60
	Max. DHW temperature with support[2]	ºC	70	70
	Noise emission level[3]	dB	43 to 58	43 to 58
	Energy label with control	-	A+++	A+++
Working limits	Heating outlet temperature	ºC	20 to 60	20 to 60
	Cooling outlet temperature	ºC	-20 to 35	-20 to 35
	Brine inlet temperature	ºC	-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/4,0	R410A/4,2
	Type of compressor oil/Oil charge	kg	POE/3,3	POE/3,3
	Recommended antifreeze for brine circuit[4]	-	Propylene glycol	Propylene glycol
	Brine circuit flow[1], B0W35 (ΔT = 3 ºC)	l/h	2405 to 9830	2405 to 9830
	Production circuit flow[1],B0W35 (ΔT = 5 ºC)	l/h	1845 to 7685	1845 to 7685
Electrical data: Three-phase power supply	3/N/PE 400 V / 50-60 Hz	-	✓	✓
	Maximum external recommended protection[5]	A	C25A	C25A
	Maximum electrical consumption[1] B0W35	kW/A	10,9/17,7	10,9/17,7
	Maximum electrical consumption[1] B0W55	kW/A	15,5/24,6	15,5/24,6
	Starting current	A	9,8	9,8
	cos φ correction	-	0,96-1	0,96-1
Dimensions and weight	Height x width x depth	mm	1000 x 950 x 900	1000 x 950 x 900
	Unladen weight (without packaging)	kg	280	285
Other Data	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.