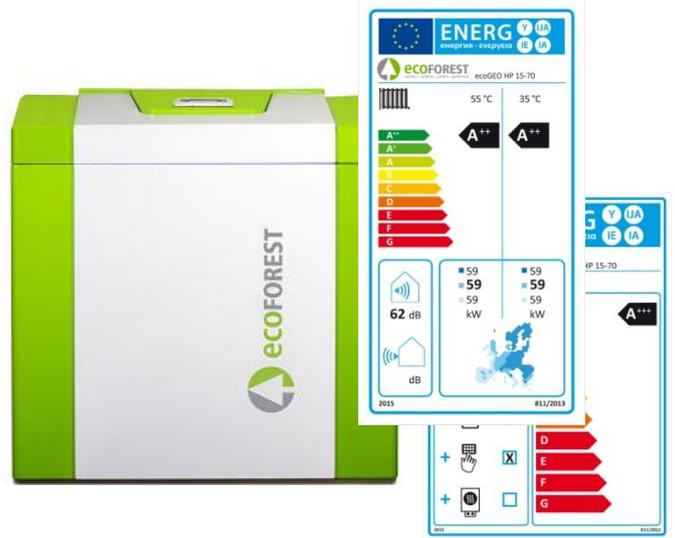


# ecoGEO HP 15-70 kW



- 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 15-70	HP3 15-70
Application	Installation site	-	Interior	Interior
	Type of brine system	-	Ground source	Ground source
	Heating	-	✓	✓
	DHW with external tank	-	✓	✓
	Active cooling integrated	-		✓
	Control of external passive cooling	-	✓	✓
Features	Modulation range of the compressor	%	25 to 100	25 to 100
	Heating output <sup>1</sup> , B0W35	kW	17,1 to 59,6	17,1 to 59,6
	COP <sup>1</sup> , B0W35	-	4,6	4,6
	Active cooling power <sup>1</sup> , B35W7	kW	--	19,6 to 65,8
	EER <sup>1</sup> , B35W7	-	--	5,0
	Max. DHW temperature without support	°C	60	60
	Max. DHW temperature with support <sup>2</sup>	°C	70	70
	Noise emission level <sup>3</sup>	dB	45 to 62	45 to 62
Working limits	Energy label with control	-	A+++	A+++
	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
Working fluids	Brine circuit pressure	bar	0,5 to 3	0,5 to 3
	Type of refrigerant/Refrigerant charge	kg	R410A/4,7	R410A/5,5
	Type of compressor oil/Oil charge	kg	POE/3,6	POE/3,6
	Recommended antifreeze for brine circuit <sup>4</sup>	-	Propylene glycol	Propylene glycol
	Brine circuit flow <sup>1</sup> , B0W35 (ΔT = 3 °C)	l/h	3230 to 13195	3230 to 13195
	Production circuit flow <sup>1</sup> , B0W35 (ΔT = 5 °C)	l/h	2465 to 10265	2465 to 10265
Electrical data: Three-phase power supply	3/N/PE 400 V / 50-60 Hz	-	✓	✓
	Maximum external recommended protection <sup>5</sup>	A	C40A	C40A
	Maximum electrical consumption <sup>1</sup> B0W35	kW/A	14,3/23,2	14,3/23,2
	Maximum electrical consumption <sup>1</sup> B0W55	kW/A	20,4/32,3	20,4/32,3
	Starting current	A	12,8	12,8
	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	320	325
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.