



ecoGEO+ LITE PRO

R290 1-6kW
Brine to Water Heat Pumps
with Inverter Technology

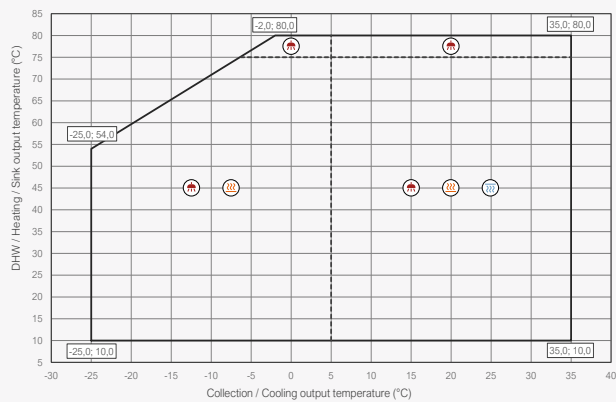


Characteristics

- Modulating thermal output control across a wide range (17%–100%) and modulating flow control in both source and production circuits (20%–100%).
- Natural refrigerant R290: GWP 3.
- Inverter technology.
- Compact design including source and production circulators, 12L expansion vessel for production, source and production safety valves, and a 3-way valve for DHW.
- Integrated control of up to two different flow temperatures and one DHW tank.
- Integrated management of on/off external backup resistance for DHW service.
- Active cooling via cycle inversion integrated in Lite3 models.
- Models available in single-phase version.
- Integrated photovoltaic hybridisation.
- Integrated energy meters for monitoring electrical consumption, thermal output (heating/cooling), and instantaneous as well as seasonal efficiency monthly and annual.
- Refrigerant detection and evacuation system not required in ecoGEO+ Lite 1-6 PRO models.

Operational chart

ecoGEO+ Lite 1-6 PRO



ecoGEO⁺ Lite 1-6 PRO

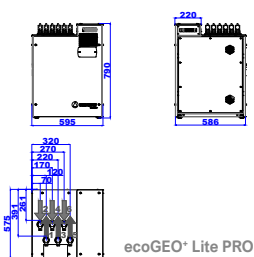
Brine to water heat pumps with Inverter technology and natural R290 refrigerant



SPECIFICATIONS ecoGEO+ Lite PRO			ecoGEO+ 1-6		
			Lite1	Lite3	
APPLICATION	Place of installation	-		Indoor	
	Collection system	-		Ground source / Open loop	
	DHW, Heating and Pool heating	-	■	■	
	Integrated passive cooling	-	-	-	
	Integrated active cooling	-	-	■	
PERFORMANCE	Compressor modulation range	%		12.5 - 100	
	⁽²⁾ Heating power output / COP B0W35	kW / -		1.0 - 6.0 / 4.3	
	⁽²⁾ Heating power output / COP B0W55	kW / -		1.0 - 5.5 / 2.7	
	⁽²⁾ Cooling power output / EER B30W7	kW / -	-		1.0 - 6.0 / 4.4
	⁽⁶⁾ Max. DHW temperature without / with support	°C			75 / 80
	⁽⁶⁾ Maximum noise power level (LWA)	dB (A)			44
	Energy label / η _s / SCOP W35 average clim. with control	-			A+++ / 184% / 4.71
Energy label / η _s / SCOP W55 average clim. with control	-			A++ / 146% / 3.76	
OPERATION LIMITS	Distribution / Set heating outlet temperature range	°C		10 - 75 / 20 - 75	
	Distribution / Set cooling outlet temperature range	°C	-		5 - 30 / 7 - 30
	Collection temperature range in heating / cooling mode	°C			-22 - 35 / 10 - 70
	Minimum / Maximum refrigerant circuit pressure	bar			0.5 / 32.0
	Collection / Production circuit pressure range (preload)	bar			0.5 - 3.0 (0.7) / 0.5 - 3.0 (1.5)
	DHW tank capacity / maximum pressure	l / bar			-
WORKING FLUIDS	R290 refrigerant load (GWP: 3)	kg		0.15	
	Compressor oil type / load	kg		PZ46M / 0.30	
	Primary circ. flow rate (Pmax, B0W35) ΔT 3°C / ΔT 5°C	m³/h			1.5 / 0.9
	Secondary circ. flow rate (Pmax, B0W35) ΔT 5°C / ΔT 7°C	m³/h			1.0 / 0.7
CONTROL ELECTRICAL DATA	⁽⁶⁾ 1/N/PE 230 V / 50-60 Hz	-		■	
	⁽⁹⁾ Recommended external protection	-		-	
	Transformer primary circuit fuse	A			0.5
	Transformer secondary circuit fuse	A			2.5
HEAT PUMP ELECTRICAL DATA: SINGLE-PHASE VERSION	⁽⁶⁾ 1/N/PE 230 V / 50-60 Hz	-		■	
	⁽⁹⁾ Recommended external protection	-		C16A	
	⁽²⁾ Maximum consumption B0W35	kW / A			1.6 / 6.8
	⁽²⁾ Maximum consumption B0W55	kW / A			2.0 / 8.6
	⁽⁷⁾ Minimum / Maximum starting current	A			0.6 / 1.8
	Correction of cos Ø	-			0.96 / 1
DIMENSIONS & WEIGHT	Height x width x depth	mm		790x595x575	
	Empty weight (without packaging)	kg		170	

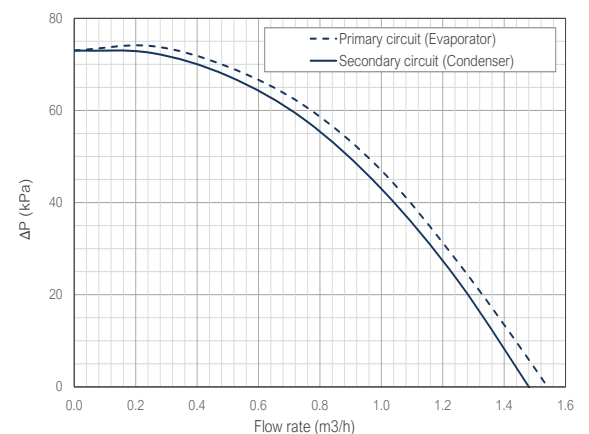
- Air-to-water by means of a brine-to water heat pump combined with a hydraulic outdoor air unit.
- In compliance with EN 14511, including circulation pumps, fan and compressor driver consumptions.
- Production flow rate according to EN 14511.
- Considering a heat slope from 20 to 50 °C in absence of consumption.
- Considering support provided by an emergency electrical heater or HTR. Max. DHW temp. with HTR can be limited by the compressor discharge temp.
- In compliance with EN 12102.
- Starting current depends on the working conditions of the hydraulic circuits.
- The admissible voltage range for proper operation of the heat pump is ±10%.
- Maximum consumption can vary significantly according to working conditions, or if the compressor's operation range is restricted. Consult the technical service manual for more information.
- Certification in process.

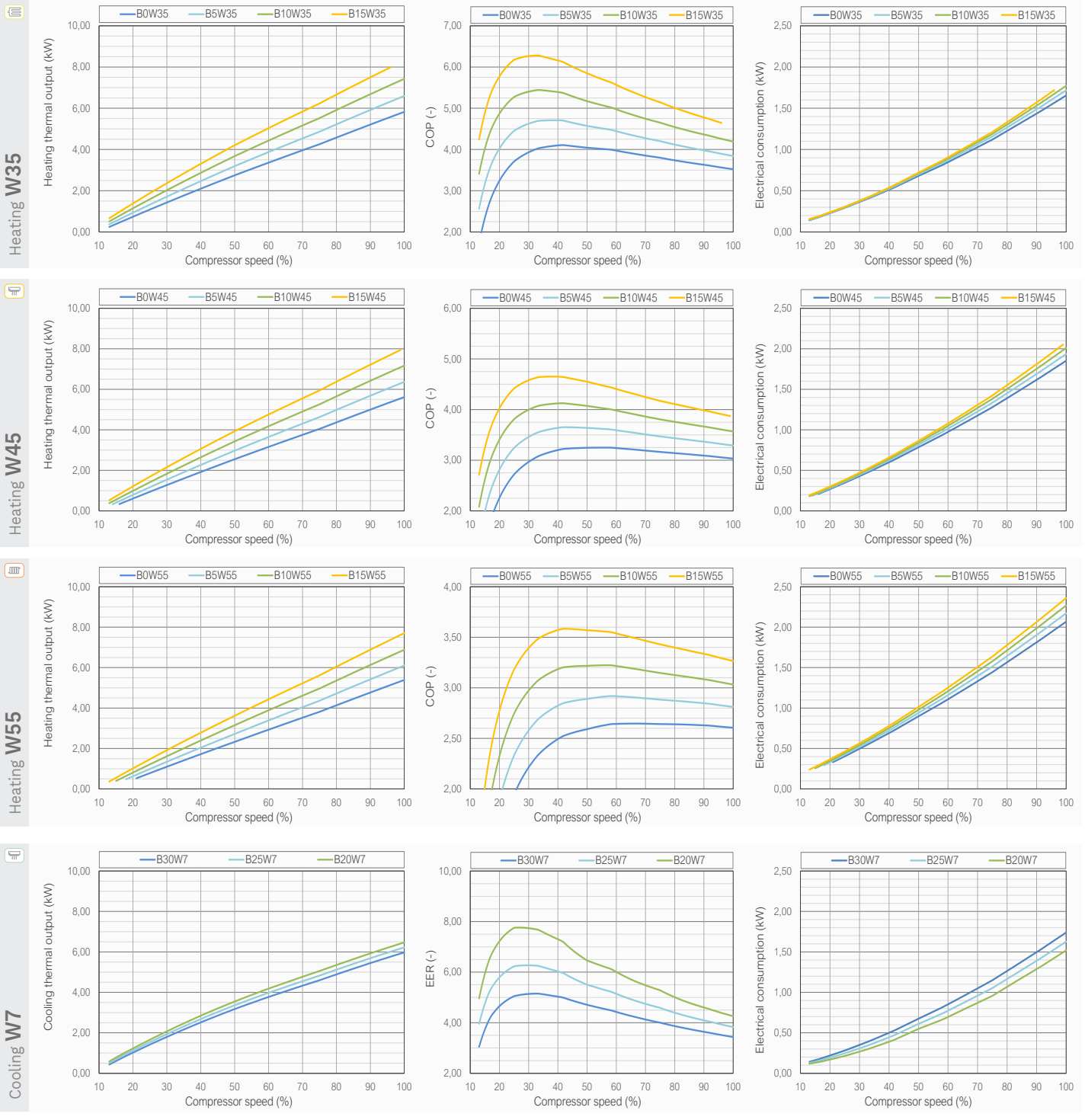
Dimensions and hydraulic connections



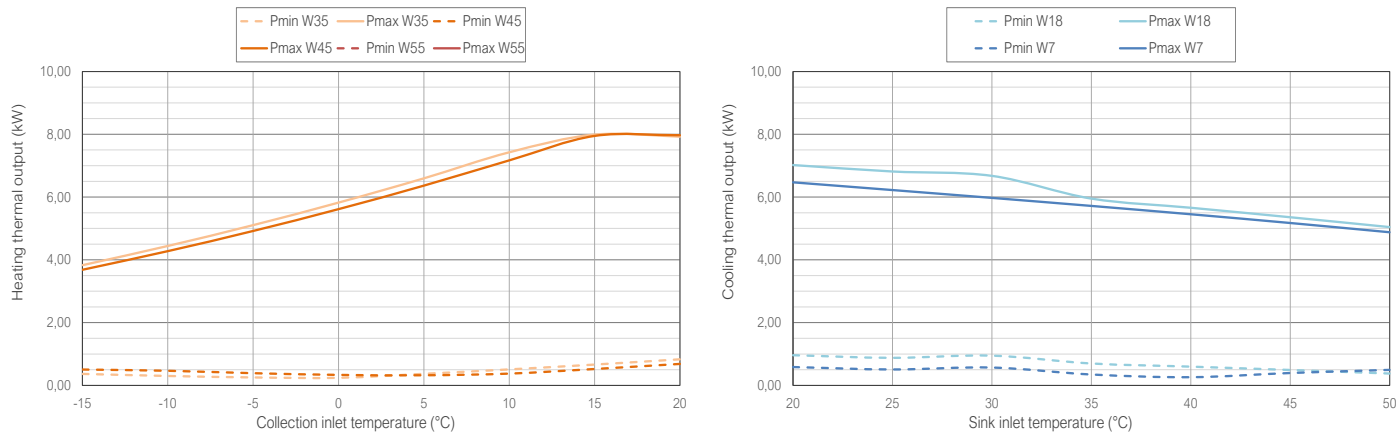
- Heating/Cooling outlet
1" M
- Heating/Cooling inlet
1" M
- Brine outlet
1" M
- Brine inlet
1" M
- DHW system outlet
1" M
- DHW system inlet
1" M
- Drain
3/4" M

Available pressure drop





Thermal power - Brine system temperature





May 2026