

# Gebwell G-Eco® Pro heat pump

– inverter-controlled heat pump with a natural refrigerant for buildings

**Gebwell G-Eco Pro is an inverter-controlled heat pump for buildings that uses the eco-friendly and natural R290 refrigerant. R290 refrigerant has a GWP of only 0.02 and an ODP of 0.**

The inverter-controlled G-Eco Pro is capable of adjusting to the building's energy needs year-round. The compressor's continuously variable inverter control ensures the unit's output matches the network's requirements exactly without over or underheating, minimising your heating bills.

When connected to the manufacturer's Gebwell Smart cloud service, the G-Eco Pro heat pump can be controlled remotely through the browser-based Hub. Your maintenance company can view the status of the heating system and adjust heating settings remotely through the Hub.

The heat pump's controller can be easily updated remotely. Data stored in the cloud service helps the manufacturer implement continuous improvements.

The heat pump's electronic expansion valve is inverter controlled, allowing the heat pump to

operate at optimal efficiency.

The G-Eco Pro heat pump is designed specifically for R290 refrigerant, and its compressor unit is completely isolated. The G-Eco Pro HT model is ideally suited for domestic hot water production thanks to its higher supply water temperature, and – with its wider operating range of the collector – also for heat recovery solutions.

- Manufactured in Finland
- Continuously adjustable heating output
- Electronic expansion valve
- Controller with IoT features
- Learning and evolving system
- Monitoring and control also possible remotely through the Gebwell Smart Hub



		G-Eco Pro 120	G-Eco Pro 120 HT
GTIN		6430079400816	6430079400823
Power values (EN 14511)			
Heating output (0°/35° and 0°/55°)	kW	52.8 – 119.0 and 50.7 – 108.0	56.5 – 129.4 and 48.0 – 119.1 <sup>1</sup>
Cooling output (0°/35° and 0°/55°)	kW	38.0 – 88.0 and 31.5 – 71.0	44.6 – 96.1 and 34.4 – 80.9 <sup>1</sup>
Electrical power (0°/35° and 0°/55°)	kW	13.8 – 29.9 and 17.5 – 39.5	11.7 – 31.0 and 15.2 – 38.8 <sup>1</sup>
Maximum electrical power	kW	40.1	54.5
Maximum operating current	A	71.5	97.1
COP (0°/35° and 0°/55°, 50 Hz, EN 14511)		4.3 and 3.2	4.4 and 3.2
SCOP (0°/35° and 0°/55°, EN 14825)		4.7 and 3.9	4.9 and 3.9
The system's energy efficiency class, intermediate climate, underfloor heating		<b>A+++</b>	<b>A+++</b>
Charge circuit flow (0/35, 30–70 Hz, delta T 5, water)	l/s	2.5 – 5.8	2.6 – 6.1
Collector flow (0/35, 30–70 Hz, delta T 3, ethanol-water 28%)	l/s	3.1 – 7.2	3.1 – 7.1
Brine		Denatured ethanol 25–30 wt-%	
Maximum allowed external pressure loss, with brine rated flow	kPa	200 <sup>2</sup> (7.3 l/s)	190 <sup>2</sup> (7.0 l/s)
Heating system / brine circuit maximum operating pressure (consider network pressure)	bar	10/10	10 / 10
Heating water maximum output temperature	°C	+63	+75
Operational temperature, collector	°C	-10... +20 (+30) <sup>3</sup>	-10... +30
Compressor		Piston (frequency controlled)	
Frequency converter, regulation value	Hz	30–70	30–70
Built-in heating pump		no	no
Built-in source pump		no	no
Electrical connection		400 VAC, 3L+N+PE, 50 Hz	
Sealed system		yes	yes
Refrigerant		R290	R290
GWP (global warming potential)		0.02	0.02
Refrigerant charge	kg	4.7	4.9
CO <sub>2</sub> equivalence - tonnes CO <sub>2</sub> e	ton CO <sub>2</sub> e	0.000094	0.000098
Sound level (measured according to EN 12102 and EN 3741, 0/35, 870–2030 rpm)	dB(A)	54 – 59	54 – 59
Operating current of the protective device	A	3 x 80	3 x 100
Connections			
Heating network	mm	G2 1/2" it	G2 1/2" it
Collector	mm	G2 1/2" it	G2 1/2" it
Ventilation	mm	125	125
Venting discharge	mm	Cu 35	Cu 35
External dimensions (depth x width x height)	mm	1250 x 750 x 1870	
Weight	kg	800	800

<sup>1</sup> Measured ΔT 2 in the brine circuit. <sup>2</sup> With source pump supplied by Gebwell Ltd. <sup>3</sup> temporary exceedance allowed