Gebwell G-Eco® Core heat pump

- inverter heat pump with a natural refrigerant

Gebwell G-Eco Core is a powerful IoT inverter heat pump that uses the eco-friendly R290 refrigerant. R290, also known as propane, has a minimal impact on global warming compared to traditional hydrofluorocarbon (HFC) refrigerants. R290 refrigerant has a GWP of only 0.02 and an ODP of 0.

Gebwell G-Eco Core is capable of adjusting to the building's energy needs year round thanks to its inverter-controlled compressor. Continuously variable inverter control ensures that the heat output matches the network's requirements exactly without over or underheating, minimising your heating bills.

G-Eco Core is connected to the manufacturer's Gebwell Smart cloud service, allowing the heat pump to be controlled remotely through the browser-based Hub. Your maintenance company can view the status of the heating system and adjust heating settings remotely without having to send an engineer on site, saving time and money.

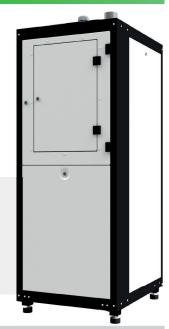
The remote connection also makes updating the

heat pump's controller easy. Data stored in the cloud service helps the manufacturer implement continuous improvements.

Compared to a mechanical valve, an electronic expansion valve is better suited to inverter control, allowing the heat pump to operate at optimal efficiency.

G-Eco Core's compressor unit is completely isolated and produces minimal running noise. The G-Eco Core heat pump is designed specifically for propane.

- · 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 Core 40	
GTIN		6430079400762	
Power values (EN 14511)			
Heating output (0°/35° and 0°/55°)	kW	9.6 - 39.0 and 9.3 - 36.1	
Cooling output (0°/35° and 0°/55°)	kW	7.5 - 29.7 and 6.0 - 23.2	
Electrical power (0°/35° and 0°/55°)	kW	3 - 10.9 and 4.2 - 14.9	
Maximum input power	kW	20	
Maximum operating current	А	37	
COP (0°/35° and 0°/55°, 50 hz, EN 14511)		4.6 and 3.1	
SCOP (0°/35° and 0°/55°, EN 14825)		5.1 and 4.1	
The system's energy efficiency class, intermediate climate, underfloor heating		A***	
Charge circuit flow (0/35, 30–110 hz, delta T 5)	l/s	0.5 - 1.9	
Collector flow (0/35, 30–110 hz, delta T 3)	l/s	0.7 - 2.4	
Brine		Denatured ethanol 25-30 wt-%	
Maximum allowed external pressure loss, with brine rated flow	kPa	100 (2.5 l/s)	
Heating system / brine circuit maximum operating pressure (consider network pressure)	bar	10/10	
Heating water maximum output temperature	°C	+75	
Operational temperature, collector	°C	-5 +20 (+30)*	
Compressor		Scroll (frequency controlled)	
Frequency converter, regulation value	hz	30-110	
Built-in heating pump		yes (frequency converter)	
Built-in source pump		yes (frequency converter)	
Electrical connection		400 VAC, 3L+N+PE, 50 Hz	
Hermetically sealed		yes	
Refrigerant		R290	
GWP (global warming potential)		0.02	
Refrigerant charge	kg	1.8	
CO2 equivalence - tonnes CO2e	ton CO ₂ e	0.000036	
Operating current of the protective device	А	3 x 40	
Sound level according to EN 3741 (0/35 and 0/55, at speeds of 1800–6600 rpm)	dB(A)	49 – 59	
Connections			
Heating network		G1 1/2" it	
Collector		G1 1/2" it	
Ventilation	mm	80	
External dimensions (depth x width x height)	mm	850 x 690 x 1850	
Weight	kg	350	

^{*} temporary exceedance allowed