

Gebwell G-Eco® Core 80 heat pump

- commercial heat pump with natural refrigerant

Gebwell G-Eco Core 80 is a commercial heat pump that uses R290 refrigerant (GWP 0.02). The compressor is designed for R290 refrigerant, and the carefully sound-insulated chassis ensures very quiet operation.

The unit can be remotely monitored and controlled via the web-based Gebwell Smart Hub service, where the unit's operation, key measurement values and alarms can be monitored, and settings adjusted remotely.

The heat pump is equipped with an easy-to-use touchscreen for local control. The touchscreen also includes a guided commissioning function. The heat pump is prepared for a Modbus connection to building automation. Up to 12 units can be connected in cascade to increase total system capacity.

- Designed and manufactured in Finland
- R290 refrigerant, GWP 0.02
- Wide operating range for the collector circuit, -10 to +30 °C
- Stepless inverter control
- High supply temperature, up to +75 °C
- Remote monitoring and control via Gebwell Smart Hub
- Touchscreen with guided commissioning
- Can be connected to building automation
- Up to 12 units in cascade



G-Eco Core 80		
6430079400786		
GTIN		
Power values (EN 14511)		
Heating capacity (0°/35° and 0°/55°) ¹	kW	20.5 – 84.5 and 26.1 – 80.2
Cooling capacity (0°/35° and 0°/55°) ¹	kW	19.0 – 64.6 and 16.9 – 54.1
Electrical power (0°/35° and 0°/55°) ¹	kW	8.0 and 11.7
Maximum power consumption	kW	38.7
Maximum operating current	A	69.0
COP (0°/35° and 0°/55°) ²		4.9 and 3.1
SCOP (0°/35° and 0°/55°, EN 14825)		5.6 and 4.2
Charging circuit flow (0/35, 30–110 hz, delta T 5, water)	l/s	1.1 – 4.1
Charge rated flow ²	l/s	1.86
Brine flow (0/35, 30–110 hz, delta T 3, ethanol-water 28%)	l/s	1.6 – 5.5
Brine rated flow ²	l/s	2.43
Maximum allowed external pressure loss, with charge rated flow	kPa	145
Maximum allowed external pressure loss, with brine rated flow	kPa	152
Minimum ventilation rate for safety mode (Qmin)	m³/h	114
Ventilation rate in normal mode	m³/h	34
Minimum volume of the installation space	m³	4.7
Recommended/maximum temperature of the installation space	°C	+15... +25/+30
Heating system / collector circuit maximum operating pressure (consider network pressure)	bar	10/10
Heating water maximum output temperature	°C	+75
Operational temperature, collector	°C	-10... +30
Compressor quantity, type	pc	1, Scroll (frequency controlled)
Integrated circulation pumps		yes (frequency converter)
Electrical connection		400 VAC, 3L+N+PE, 50 Hz
Operating current of the protective device	A	3 x 80
Hermetically sealed		yes
Refrigerant		R290
GWP (global warming potential)		0.02
Refrigerant charge	kg	3.3
CO2 equivalence - tonnes CO2e	ton CO ₂ e	0.000066
Sound level ³	dB(A)	43 / 46
Sound level ⁴	dB(A)	43 – 52
Connections		
Heating circuit		G2" F
Collector circuit		G1 1/2" F
Ventilation	mm	125
External dimensions (depth x width x height)	mm	790 x 1060 x 1750
Weight	kg	650

¹ Power values in accordance with EN 14511 ² B0/W35 in accordance with EN 14511, at a compressor speed of 3000 rpm ³ Measured in accordance with EN 12102 and EN 3741 under conditions 0/35 and 0/55 at a compressor speed of 3000 rpm ⁴ Measured in accordance with EN 12102 and EN 3741 under conditions 0/35 at the compressor's minimum and maximum speeds