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 capacity
- 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 och G-Eco Pro 120 HT värmepumpar teknisk data

		G-Eco Pro 120	G-Eco Pro 120 HT
GTIN		6430079400816	6430079400823
Power values (EN 14511)			
Heating capacity min–max (0°/35° and 0/55°)[1]	kW	56.5 – 118.5 and 48.0 – 103.5	56.5 – 118.5 and 48.0 – 103.5
Nominal heating capacity (0°/35° and 0/55°)[2]	kW	99.8 and 87.6	99.8 and 87.6
Cooling capacity min–max (0°/35° and 0/55°)[1]	kW	44.6 – 89.2 and 34.4 – 70.0	44.6 – 89.2 and 34.4 – 70.0
Nominal cooling capacity (0°/35° and 0°/55°)2	kW	76.7 and 62.4	76.7 and 62.4
Maximum power consumption	kW	40.1	54.5
Nominal power consumption (0°/35° and 0/55°)[2]	kW	21.4 and 26.4	21.4 and 26.4
Maximum operating current	A	71.5	97.1
COP (0°/35° and 0/55°, EN 14511)[2]		4.7 and 3.3	4.7 and 3.3
SCOP in a cold climate (0°/35° and 0°/55°, in accordance with EN 14825)		4.83 and 4.0	4.83 and 4.0
SCOP in a moderate climate (0°/35° and 0/55°, in accordance with EN 14825)		4.75 and 3.9	4.75 and 3.9
Minimum ventilation rate in safety mode (Qmin)	m³/h	157	164
Ventilation rate in normal mode[3]	m³/h	50	50
Minimum volume of the installation site	m³	17.5	17.5
Recommended/maximum temperature of the installation site	°C	+15…25/+30°C	+15…25/+30°C
Maximum operating pressure of the heating system / collector circuit (network pressure must be taken into account)	bar	10 / 10	10 / 10
Maximum heating water flow temperature	°C	+60	+75
Operating temperature, collection circuit	°C	-10... +20 (+30)[4]	-10... +30
Compressor		1 unit, piston (frequency-controlled)	
External circulation pumps		Yes (frequency converter)	
Electrical connection		400 VAC, 3L+N+PE, 50 Hz	
Operating current of the protection device	A	3 x 80	3 x 100
Charging circuit flow rate min–max (0/35, delta T 5, water)	l/s	2.5 – 5.8	2.6 – 6.1
Nominal flow rate of the charge circuit[2]	l/s	4.8	4.8
Maximum permissible external pressure drop in the charge circuit at nominal flow rate[5]	kPa	92 (4.8 l/s)	92 (4.8 l/s)
Collector circuit flow rate (0/35, min-max, delta T 3, 28% ethanol-water solution)	l/s	3.1 – 7.2	3.1 – 7.1
Nominal flow rate of the collector circuit[2]	l/s	6.3	6.3
Maximum permissible external pressure drop in the collector circuit at nominal flow rate[5]	kPa	210 (6.3 l/s)	210 (6.3 l/s)
Semi-hermetically sealed		Yes	Yes
Refrigerant		R290	R290
GWP (global warming potential)		0.02	0.02
Refrigerant charge	kg	4.7	4.9
CO_2 equivalent	ton CO_2e	0.000094	0.000098
Sound level (0/35 and 0/55)[2]	dB(A)	54 and 59	54 and 59
Sound level min-max[6]	dB(A)	54 – 60	54 – 60
Connections			
Heating circuit	mm	G2 1/2" F	G2 1/2" F
Collector circuit	mm	G2 1/2" F	G2 1/2" F
Ventilation	mm	125	125
Venting discharge	mm	Cu 35	Cu 35
External dimensions			
Depth	mm	1250	1250
Width	mm	750	750
Height[7]	mm	1870	1870
Weight	kg	800	800

[1] Performance data in accordance with EN 14511 at the compressor's min...max rotational speed
[2] B0/W35 in accordance with standard EN 14511, at a compressor speed of 1450 r/min
[3] Normal operating air flow measured with the control damper in the factory setting (3), cold module vacuum 10 Pa
[4] Momentary exceedance allowed
[5] Gebwell brine pump L-50/D MDG and Gebwell charge pump L-50A/4 MDG
[6] Measured sound level in accordance with EN 12102 and EN 3741 under conditions 0/35 at the compressor's min...max speed
[7] Dimensions with levelling feet fitted, from the base of the levelling foot to the top of the pipe connections.