Gebwell Taurus 110 EVI heat pump

– IoT heat pump for heating large properties

Gebwell Taurus 110 is a tandem heat pump with two EVI compressors and an IoT controller for heating large properties.

Thanks to the EVI compressors, the output power of the heat pump is high even at high condensation temperatures. The compressor economizer recovers excess heat from the fluid line, which is then used to vaporise the refrigerant into the compressor's low pressure block. Taking advantage of the high evaporation temperature of the high temperature provides better efficiency. Economizer's performance improves at higher condensing temperatures.

The IoT controller allows the system's field data to be stored in a cloud service and used in system development.

The data being stored in the cloud service enables adjustment based on weather forecasts and learning the thermal capacity and the heating/cooling behaviour of a certain property. Future IoT services include proactive maintenance and adjustment based on weather forecasts.

Thanks to the cloud service, the controller software can be updated remotely and the system can be monitored and controlled online, using a browser-based Gebwell Smart hub. Possible external interfaces to other property management systems are also possible.

Taurus 110 heat pump is also equipped with a de-superheater exchanger.

- Manufactured in Finland
- Easy to maintain and reliable
- Tandem with two EVI compressors
- Electronic expansion valve
- Brazed plate heat exchangers
- Top efficiency with partial loads
- Controller with IoT features
- Learning and evolving system
- Monitoring and control also remotely from Gebwell Smart hub

		Taurus 110 EVI
GTIN		6415853626453
Power values (according to EN 14511)		
Heating output (0°/35° and 0°/50°)	kW	93.6 and 95.3
Cooling capacity (0°/35° and 0°/50°)	kW	74.1 and 68.0
Input power (0°/35° and 0°/50°)	kW	20.9 and 29.1
COP (0°/35° ja 0°/50°)		4.5 and 3.3
SCOP (0°/35° ja 0°/50°, according to EN 14825)		5.1 and 4.6
Brine		Denaturated ethanol 30 p-%
Brine nominal flow	l/s	4.4
Maximum allowed external pressure loss at the brine circuit nominal flow	kPa	108
Heating system / brine circuit maximum operating pressure (consider network pressure)	bar	6 / 6
Heating water maximum output temperature	°C	0/+65 - +68 from condenser
Operational temperature, collector	°C	-5...+20
Compressor		Scroll (EVI)
Number of compressors		2
Soft starter		yes
Built-in heating pump		yes (frequency controlled)
Built-in source pump		yes (frequency controlled)
Electrical connection		400 VAC, 50 Hz, 3-phase
Fuses (without electric immersion heaters)	A	3x80
Contains fluorinated greenhouse gases		yes
Hermetically sealed		yes
Refrigerant		R410A
GWP (Global Warming Potential)		2088
Refrigerant amount	kg	9,8
CO_2 equivalence - tonnes CO_2e	ton CO_2 kg	20,462
Sound power level	dBA	52-58
Dimensions		
Outer dimensions (length x width x height)	mm	1300 x 700 x 1860
Weight	kg	700
Connections		
Heating network		DN50 - G2" uk
Collector		DN50 - G2" uk