

Gebwell T² heat pump

– High efficiency heating from detached houses to industrial buildings

The advanced automation of Gebwell T² heat pump is able to provide heating of the property in a dynamically condensing manner, with the best efficiency in any conditions. Gebwell T² heat pump is a solution to large detached houses, apartment blocks, industrial building and other properties with high level of energy consumption.

Heat pump's compressor can easily produce up to + 65C output water, making the pump suitable for renovated buildings in addition to new buildings.

Domestic hot water is produced by two coils in two-part hybrid accumulator. Preheating of domestic hot water in lower part of accumulator by low temperature produced with good COP provides superior hot water economy. This way allows saving of precious high temperature energy produced in upper part of the accumulator. By connecting accumulator with two DHW heat exchangers the sufficient hot water supply is guaranteed also in subjects with high water consumption.

Sufficient heating power for detached or apartment houses can be produced by combining several T² heat pumps in cascade. Cascade control optimizes the heating power steps for all the heating season conditions. Automation regulate the running

periods and start-up times. Automation enables connection of even 16 ground source heat pumps into same cascade system.

The controller can regulate three heating circuits and additional heating sources on request, such as electric or oil-boiler. Other features include different time programs as DHW circulation time set, integration to the automation system, and remote control with web- browser.

T² heat pump system can be extended by different extension modules as ground source cooling solution, solar heating system, swimming pool and various hot water solutions. T² heat pumps are also suitable for different kind of hybrid solutions; it is easily connectable to existing heating system, for example, to wood or oil heating.



- Manufactured in Finland
- High efficiency
- Extremely low sound level
- Removable compressor unit
- Advanced control unit
- Modern Scroll compressor technology
- Superior water economy

Gebwell T ²		T ² 06	T ² 08	T ² 10	T ² 13	T ² 16	T ² 20	T ² 26	T ² 32	
GTIN (64158..)		53619240	53619257	53619264	53619271	53619288	53619295	53619301	53619424	
Power values:										
Heating output (0°/35°C and 0°/55°C)	kW	5.3 / 4.9	7.4 / 6.8	9.4 / 8.5	13.3 / 12.2	15.9 / 14.6	22.5 / 20.3	30.5 / 27.3	34.6 / 30.9	
Cooling capacity (0°/35°C and 0°/55°C)	kW	4.2 / 3.2	5.8 / 4.4	7.4 / 5.6	10.5 / 8.1	12.6 / 9.6	17.5 / 12.8	24.0 / 17.6	27.4 / 20.1	
Input power (0°/35°C and 0°/55°C)	kW	1.1 / 1.7	1.6 / 2.4	2.0 / 2.9	2.8 / 4.1	3.3 / 5.0	5.0 / 7.5	6.5 / 9.7	7.2 / 10.8	
COP (0°/35°C and 0°/55°C)	kW	4.8 / 2.9	4.6 / 2.8	4.7 / 2.9	4.8 / 3.0	4.8 / 2.9	4.5 / 2.7	4.7 / 2.8	4.8 / 2.9	
– Power values stated at temperatures 0°/35°C and 0°/55°C, SFS-EN 14511										
System's energy efficiency class, intermediate climate, underfloor heating		A+++								
Heat collecting liquid		Denaturated ethanol 30 p-%								
Heat collecting liquid nominal flow	l/s	0.3	0.41	0.5	0.6	0.74	0.98	1.23	1.48	
Maximum allowed external pressure loss at the heat collecting loop nominal flow	kPa	61	48	90	74	75	81	70	100	
Heating system / heat collecting loop maximum operating pressure (consider network pressure)	bar	4 / 4								
Heating water maximum output temperature	°C	65				68				
Operational temperature, collecting loop	°C	-5 ... +20								
Compressor		Scroll								
Compressor soft starter		yes								
Built-in heating pump		yes								
Source pump		built-in					included in delivery			
Electrical connection		400 VAC. 50 Hz. 3-phase								
Voltage		3~400 V								
Additional electrical resistor (accessory) can be connected	kW	3 / 6 / 9	3 / 6 / 9	3 / 6 / 9	3 / 6 / 9	3 / 6 / 9	3 / 6 / 9	3 / 6 / 9	3 / 6 / 9	
Fuses (without resistors)	A	3x10	3x10	3x10	3x16	3x16	3x20	3x25	3x32	
Contains fluorinated greenhouse gases		yes								
Hermetically sealed		yes								
Refrigerant		R407C					R410A			
GWP (Global Warming Potential)		1774	1774	1774	1774	1774	2088	2088	2088	
Refrigerant amount	kg	1.8	1.8	1.8	2.2	2.5	3.8	3.4	3.4	
CO ₂ equivalence - tonnes CO ₂ e		3.193	3.193	3.193	3.903	4.435	7.934	7.099	7.099	
Sound power level	dB	38.5	38.5	40	40	42	42	42	43.5	
Dimensions:										
Outside dimensions (depth x width x height)	mm	775 x 600 x 1200*								
Weight	kg	168	172	180	195	205	230	230	225	

* adjustment legs 40 - 60 mm