

Product catalogue

MADE IN FINLAND





Gebwell – Pure heat

Gebwell Ltd. specializes in environmentally friendly heating and cooling solutions. All the products are designed and manufactured in Finland, in Leppävirta. The knowhow we have gathered during decades in the heating industry can be seen in our products as functionality and durability. We invest in modern technical product features. When acquiring your heating system from a Gebwell dealer, you will get it installed in place.

Ground source heat

Ground source heat is heat energy from the sun which accumulates and is stored in the ground. Using a heat pump system, this energy can be utilized to heat buildings and domestic water. It's free and within everyone's reach – you just need the right equipment to access and utilize it.

Ground source heat is clean and renewable energy. It doesn't cause any carbon dioxide or particle emissions which accelerate global warming, and is therefore an ecological form of heating.

Savings in heating costs

In addition to saving nature, ground source heat can also save you money. By making a one-time investment in a ground source heat system, you will permanently reduce your heating costs. A heat pump produces at least three times more thermal energy than the energy it consumes.

Ground source heating can permanently reduce your heating costs by up to 75%. At the same time, you can protect yourself from fluctuation in the price of energy. Ground source heating is a very sensible investment in the future.

Gebwell heat pumps

- Designed and manufactured in Finland
- Energy efficient
- Carefree to use
- Cooling possibility

District heating

District heating is the most common heating method used in towns and cities, with its benefits including ease of use, reliability and wide availability. Gebwell's equipment can provide you with district heating in a reliable and flexible manner.

Save energy, save the environment

For instance, in Finland 80% of district heating is produced through combined production with electricity power plant. The plant's excess condensing heat is used in district heating networks. In doing so, the plant's efficiency is increased and lots of energy is saved.

Environmental emissions from combined production are approximately 30% lower than when the production of energy and heat take place in separate production facilities. It is a widely recognized manner of protecting the climate and the development of combined production is estimated to be the greatest single method of reducing greenhouse emissions.

Gebwell G-Power® district heating substations

- Designed and manufactured in Finland*
- Energy efficient
- Carefree to use
- Space saving, compact design



Gebwell Ltd. and its partners won the most important recognition in the European heat pump industry: the Next Generation Heat Pump award!

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Gebwell district cooling substation
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GebVent Air and Dirt Separators

Gebwell Aries ground source heat pump

- inverter ground source heat pump for detached and semi-detached houses

The advanced Aries ground source heat pump comes with a frequency-controlled compressor and completely new automation. Aries is also connected to the factory as a standard.

The power of Aries's variable-speed compressor is adjusted based on the power needed at the property. Thanks to the inverter control, the heat pump always operates at the correct power, optimising the heating output depending on the heating needs.

Aries is linked to a cloud service as a standard, which means that the manufacturer can check the system status, if needed. The cloud service also enables the remote monitoring and control of the pump.

Aries is controlled with a smart device application. The user interface can be used to monitor and adjust the heat pump through the WLAN established by the heat pump or even remotely via 4G/5G. Remote access is currently free for now, but will later become subject to a charge.

In future, the operating data stored in the cloud service can be used for purposes such as heating optimization and preventive maintenance, or even considering weather forecasts in heating programming.

Aries heat pump is also available without built-in accumulator, model Aries 12C.



- Energy efficient
- Advanced automation
- Remote connection to the manufacturer

		Aries 6	Aries 12	Aries 12C	
GTIN		6415853626040	6415853626149	6415853626491	
Power values (according to EN 1/511)		0	0	00000020171	
Heating output $(0^{\circ}/35^{\circ} \text{ and } 0^{\circ}/55^{\circ})$	kW	1.5-7.3 and 1.3-6.7	2 6-11 8 and 2 3-11 1	2 6-11 8 and 2 3-11 1	
Cooling output $(0^{2}/35^{\circ})$ and $0^{2}/55^{\circ})$	kW	1.6-5.6 and 1.3-4.6	1.9-9.2 and 2.2-7.3	1.9-9.2 and 2.2-7.3	
Electrical power $(0^{\circ}/35^{\circ} \text{ and } 0^{\circ}/55^{\circ})$	kW	0.4-1.7 and 0.7-2.2	0.7-2.7 and 1.1-4.0	0.7-2.7 and 1.1-4.0	
Pated beating output (0°/35° and 0°/55°)	kW	3.8 and 3.5	67 and 62	67 and 6.2	
Poted electrical power (0°/25° and 0°/55°)	kW	0.8 and 1.11	1 / and 1 7	1 / and 1 7	
$\frac{1}{2} \left(\frac{1}{2} \right)^{2} \left($	NVV	1.8 and 3.1	1.4 and 2.0	1.4 and 1.7	
COP (0/35 and 0/55)		5.6 and 4.2	4.0 and 2.9	4.0 and 2.9	
SCOP (0/35 and 0/55, according to EN14825)		5.0 and 4.2	5.0 and 4.5	5.6 and 4.5	
climate underfloor beating		A+++	A+++	A+++	
Heating circuit rated flow	l/s	0.13	0.23	0.23	
Brine			Denatured ethanol 25-309	6	
Brine flow	l/s	0.07 - 0.34	0.16 - 0.55	0.16 - 0.55	
Maximum allowed external pressure loss at the brine	.,				
rated flow	кра	68 (0.19 l/s)	110 (0.34 l/s)	110 (0.34 l/s)	
Heating system / Brine circuit maximum operating	bar				
pressure (consider network pressure)	bui	6/6	6/6	6/6	
Domestic water accumulator maximum operating	bar	10	10	10	
pressure		10			
Heating water maximum output temperature	°C	65	65	65	
Operational temperature, collector	°C	-5 +30	-5 +30	-5 +30	
Compressor		Twir	rotary (frequency-contro	olled)	
Frequency converter			yes		
Built-in heating pump		yes (frequency converter)			
Built-in source pump			yes (frequency converter)		
Electrical connection through a plug		ує	es, 400 VAC, 50 Hz, 3-pha	se	
Contains fluorinated greenhouse gases		yes	yes	yes	
Hermetically sealed		yes	yes	yes	
Refrigerant		R410A	R410A	R410A	
GWP (Global Warming Potential)		2088	2088	2088	
Refrigerant amount	kg	0.92	1.42	1.42	
CO ₂ equivalence	ton CO ₂ e	1,920	2,965	2,965	
Built-in electric immersion heater can be connected	kW	2/4/6	2/4/6	2/4/6	
Recommended fuse size (with heater)	Α	3x16	3x20	3x20	
Connections:					
Heating pipe	mm	22	28	28	
Collector	mm	28	28	28	
Domestic water	mm	22	22	-	
Sound power level (L)	dB	34-43	36-47	36-47	
Dimensions					
External dimensions (depth x width x height)	mm	660 x 600 x 1800	660 x 600 x 1800	830 x 640 x 970	
Weight	kg	181	190	165	
Hot water accumulator (domestic water/heating)	I	185 / 7	185 / 7	no built-in accumulator	
	1		1	1	

Gebwell T3 Inverter heat pump – powerful and smart inverter heat pump for high heating demand

The Gebwell T3 Inverter is a powerful and smart IoT inverter heat pump for heating system of larger properties such as large villas, terraced houses and small apartment buildings as well as small and medium-sized warehouses and industrial buildings.

The inverter-controlled compressor on the T3 Inverter heat pump adapts the power output to current energy demand according to the time of year. Thanks to a stepless inverter control system, the heat pump always produces exactly the right level of heating required by the network - without over heating or under heating it optimizes the heating costs.

T3 Inverter heat pumps are linked to the manufacturer's cloud service, which means that they can be controlled remotely via the browser-based Gebwell Smart control centre. Service engineers can check the status of heating systems remotely via the control centre without having to go on site, which saves both time and money.

The cloud service also makes it possible to update the software on the heat pumps remotely. The data stored in the cloud service helps the manufacturer to constantly improve the technology. A number of new features that will increase the user-friendliness of the T3 Inverter and help to cut costs are in the pipeline at the moment.

The Gebwell T3 Inverter can be connected to

- Manufactured in Finland
- Stepless thermal power
- Electronic expansion valve
- Controller with IoT features
- · Learning and evolving system
- Monitoring and control also remotely from Gebwell Smart hub

the property's surveillance system using an optional Modbus RTU card. Compared to a mechanical valve, an electronic expansion valve adapts better to invertercontrol, optimising the efficiency of the heat pump.

The compressor unit is fully insulated making the heat pump extremely quiet. The T3 Inverter's cooling module only holds 2.1 kg of R410A, which makes it exempt from annual refrigerant inspections.



		13 Inverter
GTIN		6415853626439
Power values (according to EN 14511)		
Heating output	kW	9.5-26.5 and 9.1-25.0
Cooling output (0°/35° and 0°/55°)	kW	7.6-21.0 and 6.3-17.0
Electrical power (0°/35° 0°/55°)	kW	2.1-6.0 and 3.0-8.1
Rated heating output (0°/35° 0°/55°)	kW	12.6 and 11.8
Rated electrical power (0°/35° and 0°/55°)	kW	2.5 and 3.7
COP (0°/35° and 0°/55°)	kW	4.7 and 3.2
SCOP (0°/35° and 0°/55°, according to EN14825)		4.9 and 4.2
System's energy efficiency class, intermediate climate, underfloor heating		A+++
Heating circuit rated flow	l/s	0.4
Brine		Denaturated ethanol 25-30 p-%
Brine flow	l/s	0.45 - 1.25
Maximum allowed external pressure loss at the brine rated flow	kPa	138 (0.6 l/s)
Heating system / brine circuit maximum operating pressure (consider network		
pressure)	bar	6 / 6
Heating water maximum output and return temperature	°C	58-63 / 51-56
Operational temperature, collector	°C	-5 +20
Compressor		Twin rotary (frequency controlled)
Frequency converter		yes
Built-in heating pump		yes (frequency controlled)
Built-in source pump		yes (frequency controlled)
Electrical connection		400 VAC, 50 Hz, 3-phase
Contains fluorinated greenhouse gases		yes
Hermetically sealed		yes
Refrigerant		R410A
GWP (Global Warming Potential)		2088
Refrigerant amount	kg	2.1
CO ₂ equivalence - tonnes CO ₂ e	ton CO ₂ e	4,385
Recommended fuse size	A	3 x 32A
Connections		
Heating pipe	mm	35
Collector	mm	35
Sound power level (L _{wa})	dB	37-56
Dimensions		
External dimensions (dept x width x height)	mm	790 x 640 x 970
Weight	kg	206.5
· · ·	5	* L Illin in facet 40 - 60 in

Gebwell GEMINI Inverter heat pump – smart and evolving inverter heat pump for large properties

With two compressors, the Gemini Inverter represents the most advanced heat pump technology. The Gemini Inverter is a highefficiency heating solution for apartment buildings, warehouses and industrial buildings.

The Gebwell Gemini Inverter heat pump consumes less energy on start-up than on/off heat pumps, and the power output is automatically adapted to the building's heating demand.

The Gemini Inverter combines an inverter-controlled compressor and an on/off compressor, which makes it possible to provide both heating and hot water simultaneously.

Gemini Inverter heat pumps are linked to the manufacturer's cloud service, which means that they can be monitored and controlled remotely via the browser-based Gebwell Smart hub. The cloud service also makes it possible to update the software on the heat pumps remotely. The data stored in the cloud service helps the manufacturer to constantly improve the technology. A number of new features that will increase the user-friendliness of the Gemini Inverter and help to cut costs are in the pipeline at the moment. The Gemini Inverter has a built-in port for a cooling module, and it can therefore also be used for environmentally friendly and cost-effective ground source cooling. Gebwell Gemini Inverter heat pumps are designed to be used in combination with custombuilt Gebwell G-Energy water tanks.

The Gebwell Gemini Inverter can be connected to the property's monitoring system using an optional Modbus RTU card. Compared to a mechanical valve, an electronic expansion valve adapts better to inverter-control, optimising the efficiency of the heat pump.

- Manufactured in Finland
- Fully adjustable heating output
- Electronic expansion valve
- Controller with IoT features
- · Learning and evolving system
- Monitoring and control also remotely from Gebwell Smart hub

		Gemini Inverter
GTIN		6415853626446
Power values (according to EN 14511)		
Heating output	kW	9.5 - 57.1 and 9.1-52.1
Cooling output (0°/35° and 0°/55°)	kW	7.6 - 45.0 and 6.3 - 34.6
Electrical power (0°/35° 0°/55°)	kW	2.1 - 12.9 and 3.0 - 18.2
Rated heating output (0°/35° 0°/55°)	kW	47.2 and 41.9
Rated electrical power (0°/35° and 0°/55°)	kW	9.7 and 14.3
COP (0°/35° and 0°/55°)		4.5 and 2.9
SCOP (0°/35° and 0°/55°. according to EN14825)		5.1 and 4.2
The system's energy efficiency class. intermediate climate. underfloor heating		A+++
Heating circuit rated flow	l/s	1.6
Brine		Denaturated ethanol 25-30 p-%
Brine flow	l/s	0.45 - 2.7
Maximum allowed external pressure loss at the brine rated flow	kPa	120 (2.2 l/s)
Heating system / brine circuit maximum operating pressure (consider network pressure)	bar	6 / 6
Heating water maximum output and return temperature	°C	58-65 / 51-56
Operational temperature. collector	°C	-5 +20
Compressor		Scroll and Twin rotary (frequency controlled)
Number of compressors		2 (1 Scroll. 1 Twin rotary)
Soft starter		yes (Scroll). inverter (Twin rotary)
Frequency converter		yes
Built-in heating pump		yes (frequency controlled)
Built-in source pump		no (Scroll). yes (Twin rotary)
Electrical connection		400 VAC. 50 Hz. 3-phase
Contains fluorinated greenhouse gases		yes
Hermetically sealed		yes
Refrigerant		R410A
GWP (Global Warming Potential)		2088
Refrigerant amount	kg	2.1 ja 3.4
CO ₂ equivalence - tonnes CO ₂ e	ton CO ₂ e	4.385 ja 7.099
Recommended fuse size	A	3 x 63
Sound power level (L _{wa})	dB	37-56
Dimensions		
External dimensions (dept x width x height)	mm	790 x 640 x 1840
Weight	kg	402.5

Gebwell Taurus EVIC heat pump – IoT heat pump for heating large properties

Gebwell Taurus EVIC 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 EVIC heat pump comes in two capacities Taurus 80 EVIC and Taurus 110 EVIC. Taurus EVIC 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

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		Taurus 80 EVIC	Taurus 110 EVIC
GTIN		6430079400564	6430079400571
Power values (according to EN 14511)			
Heating output	kW	71.4 and 74.3	93.6 and 97.8
Cooling output (0°/35° and 0°/55°)	kW	56.4 and 50.0	74.1 and 65.2
Electrical power (0°/35° 0°/55°)	kW	16.1 and 25.5	20.9 and 32.6
Rated heating output (0°/35° 0°/55°)	kW	71.4 and 74.3	93.6 and 97.8
Rated electrical power (0°/35° and 0°/55°)	kW	16.1 and 25.5	20.9 and 32.6
COP (0°/35° and 0°/55°)		4.4 and 2.9	4.5 and 3.0
SCOP (0°/35° and 0°/55°. according to EN14825)		5.2 and 4.4	5.2 and 4.5
Heating circuit rated flow	l/s	2.4	3.2
Brine		Denaturated ethanol 25-30 p-%	Denaturated ethanol 25-30 p-%
Brine rated flow	l/s	3.4	4.4
Maximum allowed external pressure loss at the brine rated flow	kPa	130	120
Heating system / brine circuit maximum operating pressure (consider network pressure)	bar	6 / 6	6 / 6
Heating water maximum output temperature	°C	0/+65 from condenser	0/+65 from condenser
Operational temperature. collector	°C	-5+20	-5+20
Compressor		Scroll (EVI)	Scroll (EVI)
Number of compressors		2	2
Soft starter		kyllä	yes
Built-in heating pump		yes (frequency controlled)	yes (frequency controlled)
Built-in source pump		yes (frequency controlled)	yes (frequency controlled)
Electrical connection		400 VAC. 50 Hz. 3-phase	400 VAC. 50 Hz. 3-phase
Fuses (without electric immersion heaters)	A	3x80	3x80
Contains fluorinated greenhouse gases		yes	yes
Hermetically sealed		yes	yes
Refrigerant		R410A	R410A
GWP (Global Warming Potential)		2088	2088
Refrigerant amount	kg	9.0	9.8
CO2 equivalence - tonnes CO2e	ton CO ₂ kg	18.792	20.462
Sound power level	dBA	52-58	52-58
Dimensions and connections			
Outer dimensions (length x width x height)	mm	1150 x 760 x 1550	1150 x 760 x 1550
Weight	kg	720	720
Heating network		DN50 - R2" it	DN50 - R2" it
Collector		DN50 - R2 ½" it	DN50 - R2 ½" it
Superheater		DN25 - R1" it	DN25 - R1" it

Gebwell Taurus Inverter Pro heat pump – IoT inverter heat pump for heating large properties

Gebwell Taurus Inverter is an invertercontrolled heat pump for heating large properties. Taurus Inverter Pro heat pump has a controller that enables IoT features.

IoT features have been based on using the installed system data stored in the cloud service and on a smart and learning controller.

IoT features include adjustments based on weather forecasts and learning the thermal capacity and the heating/cooling behaviour of a certain property. In the future, IoT will enable proactive maintenance and adjustments according to weather forecasts, for example.

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

Taurus Inverter heat pump has a power class of 40-100 kW with continuous adjustment and modulation by 1%. The electronic expansion valve of the heat pump adapts to power changes of the

inverter compressor, optimising the efficiency of the heat pump.

Taurus Inverter heat pump has a piston compressor, which is typically serviced instead of replacement. The costs compared to replacement are significantly lower.

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



GTIN6415853626460Power valuesHeating outputKW40.1-94.9 and 30.6-82.3Cooling output (07/35° and 07/55°)KWBillectrical power (07/35° and 07/55°)KWRated heating output (07/35° and 07/55°)KWRated heating output (07/35° and 07/55°)KWCOP (07/35° and 07/55°)KWCOP (07/35° and 07/55°)KWCOP (07/35° and 07/55°)KWCOP (07/35° and 07/55°)KWSCOP (07/35° and 07/55°)LAt 2 and 2.7SCOP (07/35° and 07/55°)SCOP (07/35° and 07/55°)SCOP (07/35° and 07/55°)LAt 2 and 2.7SCOP (07/35° and 07/55°)LBrine flow2.2Brine flow1.7 - 5.6Maximum allowed external pressure loss at the brine rated flowKPaHeating system / brine circuit maximum operating pressurebar(consider network pressure)bar(consider network pressure)bar(consider network pressure)barCompressor1Itrequency converterYesBuilt-In bracting pumpYesBuilt-In bracting pumpYesBuilt-In bracting pumpYesFuses (without electric immersion heaters)AA3380Contains fluorinated greenhouse gasesYesHerretically sealedYesRefrigerant amountKgCOP (O2 kg14.511Contains fluorinated greenhouse gasesYesHerretically sealedYes			Taurus Inverter Pro
Power valuesImage: constraint of the second sec	GTIN		6415853626460
Heating outputkW40.194.9 and 30.6-32.3Cooling output (0'/35' and 0'/55')kW31.5-71.4 and 20.6-55.1Electrical power (0'/35' 0'/55')kW8.9-24.7 and 11.6-28.5Rated heating output (0'/35' and 0'/55')kW65.3 and 52.3Rated electrical power (0'/35' and 0'/55')kW15.4 and 19.2COP (0'/35' and 0'/55')KW15.4 and 19.2COP (0'/35' and 0'/55').4.2 and 2.7SCOP (0'/35' and 0'/55')Brine flow.2.2Brine flow.2.2Brine flow.1.7 - 5.6Maximum allowed external pressure loss at the brine rated flowkPa(consider network pressure)bar6 / 6(consider network pressure)bar6 / 6Operational temperature. collector	Power values		
Cooling output (0'/35° and 0'/55')kW31.5-71.4 and 20.6-55.1Electrical power (0'/35° 0'/55')kW6.9-24.7 and 11.6-28.5Rated heating output (0'/35° 0'/55')kW6.53 and 52.3Rated electrical power (0'/35° and 0'/55')kW15.4 and 19.2COP (0'/35° and 0'/55')kW15.4 and 19.2SCOP (0'/35° and 0'/55').5.1 and 4.3Heating circuit rated flow.2.2BrineDenaturated ethanol 25-30 p-%Brine flow./s1.7 - 5.6Maximum allowed external pressure loss at the brine rated flowkPa(consider network pressure)bar6/6Heating system / brine circuit maximum operating pressure (consider network pressure)0/425Operational temperature. collector°C0 /75-80Operational temperature. collector°C428Number of compressors.1Frequency converter400 VAC. 50 Hz. 3-phaseBuilt-in heating pump400 VAC. 50 Hz. 3-phaseBuilt-in source pump400 VAC. 50 Hz. 3-phaseContains fluorinated greenhouse gases400 YesRefrigerant400 YesRefrigerant amountKg431COP equivalence - tonnes CO2eton Co_kgInternational potential)400 YesBuilt-in source pump400 YesBuilt-in source pump400 YesContains fluorinated greenhouse gases400 YesRefrigerant amount400 YesRefrigerant amount400 Yes<	Heating output	kW	40.1-94.9 and 30.6-82.3
Electrical power (0'/35° 0'/55°)kW8.9-24.7 and 11.6-28.5Rated heating output (0'/35° 0'/55°)kW65.3 and 52.3Rated electrical power (0'/35° and 0'/55°)kW15.4 and 19.2COP (0'/35° and 0'/55°)	Cooling output (0°/35° and 0°/55°)	kW	31.5-71.4 and 20.6-55.1
Rated heating output (0*/35* 0*/55*)kW65.3 and 52.3Rated electrical power (0*/35* and 0*/55*)kW15.4 and 19.2COP (0*/35* and 0*/55*)4.2 and 2.7SCOP (0*/35* and 0*/55*)5.1 and 4.3Heating circuit rated flow2.2BrineDenaturated ethanol 25-30 p-%Brine flow1/s1.7 - 5.6Maximum allowed external pressure loss at the brine rated flowkPa140 (2.9 1/s)Heating system / brine circuit maximum operating pressure (consider network pressure)bar6 / 6Heating water maximum output temperature°C0 / ~75-80Operational temperature. collector°C5+25CompressorPiston. 6 - //if ofNumber of compressors11Frequency converteryesyesBuilt-in heating pumpyesyesBuilt-in source pump400 VAC. 50 Hz.3-phaseFuses (without electric immersion heaters)A3x80Contains fluorinated greenhouse gasesyesHermetically sealedyesRefrigerant amountKg23CO2 equivalence - tonnes CO2eton Co., kg14.51Cond per leveldBA50-54Dimensionsmm1300 x700 x 1860	Electrical power (0°/35° 0°/55°)	kW	8.9-24.7 and 11.6-28.5
Rated electrical power (0'/35° and 0'/55')kW15.4 and 19.2COP (0'/35° and 0'/55')	Rated heating output (0°/35° 0°/55°)	kW	65.3 and 52.3
COP (0'/35° and 0'/55°)4.2 and 2.7SCOP (0'/35° and 0'/55°. according to EN14825)5.1 and 4.3Heating circuit rated flow2.2BrineDenaturated ethanol 25-30 p-%Brine flow1/s1.7 - 5.6Maximum allowed external pressure loss at the brine rated flowkPa140 (2,9 1/s)Heating system / brine circuit maximum operating pressure (consider network pressure)bar6 / 6Heating water maximum output temperature°C0 / ~75-80Operational temperature. collector°C-5+25Compressor11Number of compressors11Frequency converteryesyesBuilt-in source pumpyesyesElectrical connection400 VAC. 50 Hz. 3-phaseFuses (without electric immersion heaters)A3x80Contains fluorinated greenhouse gasesyesHermetically sealedyesRefrigerant631Refrigerant amountkg23CO2 equivalence - tonnes CO2eton CO_k g14.51Sound power leveldBA50-54Dimensionsmm1300 x 700 x 1860	Rated electrical power (0°/35° and 0°/55°)	kW	15.4 and 19.2
SCOP (0'/35" and 0'/55". according to EN14825)5.1 and 4.3Heating circuit rated flow2.2BrineDenaturated ethanol 25-30 p-%Brine flow1/sMaximum allowed external pressure loss at the brine rated flowkPaHeating system / brine circuit maximum operating pressure (consider network pressure)bar6 / 66Heating water maximum output temperature°C0perational temperature. collector°C0perational temperature. collector°C0perational temperature. collector°C0perational temperature. collector°C11Frequency converteryesBuilt-in heating pumpyesBuilt-in source pumpyesElectrical connection400 VAC. 50 Hz. 3-phaseFuses (without electric immersion heaters)A33x80Contains fluorinated greenhouse gasesyesRefrigerantyesRefrigerant amountkgC02 equivalence - tonnes CO2eton CO _x kgC02 equivalence - tonnes CO2eton CO _x kgDumensionsdBAOuver dimensions (length x width x height)mmName dimensions (length x width x height)mmName dimensions (length x width x height)mmName dimensions (length x width x height)knName dimensionsKn	COP (0°/35° and 0°/55°)		4.2 and 2.7
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BU ()/11	Weight	ka	876
Connections	Connections	ĸy	0/0
Heating network DN50 - C2" of	Heating network		DN50 - G2″ et
Collector DN50-62 et	Collector		DN50 - G2" et

Gebwell heat pump accessories

Installation set for ground source heat pump

The installation set was designed to facilitate and speed up the installation of Aries ground source heat pump.

Installation set includes

- Collector valve group
- Expansion tank of 12l for collector
- Safety valve for collector 2,5 bar
- Filling group for heating circuit
- Expansion tank of 12I for heating circuit
- Safety valve for heating circuit 2,5 bar
- Shut-off valve for heating circuit
- Filter for heating circuit
- Pressure meters for collector and heating circuit
- Mixing valve for DHW
- Safety valve for DHW 10 bar
- Hanging hooks

- Manufactured in Finland
- Reduces installation time considerably
- A large part of the installation accessory ready
- Collector pipes ready insulated
- Ground circuit pre-pressurized
- Speeds up the deaerating
- Collector filling valve from DHW
- Smart and neat finishing for installation
- Installable onto the side of ground source heat pump or onto the wall beside the pump



Installation set

Cooling supplies for installation set

Supplies for completing the installation set suitable for cooling:

Delivery contents:

- Cooling pump
- Shut-off valves in/out
- Non-return valve
- Control centre for cooling



Cooling accessories for installation set

Heating pump extension for installation set

Supplies for completing the installation with an additional pump for heating circuit, especially for radiator heating systems.

Delivery contents:

- Circulation pump
- Non-return valve
- Connectors



Heating pump extension for installation set

Product	GTIN	Feasibility, GSHP	Weight, kg	Outer dimensions (d x b x h), mm
Installation set	6415853626156	Aries	22,0	340 x 540 x 870
Cooling supplies for installation set	6415853626163	Aries	5,8	-
Heating pump extension for installation set	6415853626170	Aries	3,6	-

Gebwell Cool cooling convector

Wall-mounted cooling convector is elegant by style and silent by operation.

Filters on the convector are washable and reusable and the convector is equipped with wireless remote control. The convector is suitable especially for domestic and office use.



- Elegant and silent
- · Washable and reusable filters
- Equipped with wireless remote control
- On/Off timer
- For domestic and office use

Gebwell Cool		
Cooling		
Total cooling capacity	kW	2,49
Sensible cooling capacity	kW	1,81
Water flow	l/h	427
Pressure drops	kPa	28
Heating		
Heating capacity	kW	3,21
Water flow	l/h	427
Pressure drops	kPa	23
Air flow (max / med / min)	m³/h	500 / 370 / 290
Power supply	V / Ph / Hz	230V / 1Ph / 50 Hz
Pipe connections	G	1⁄2"
Sound pressure level (max / med / min)	dB(A)	37 / 30 / 26
Dimensions		
Height	mm	300
Width	mm	875
Depth	mm	220
Weight	kg	16

Collector valve group

Valve group makes the filling and the venting of collector easy. In addition, the dirt filter removes the possible dirt particles in the liquid circulation.

DN25 and DN32 collector valve group models include an expansion vessel through which the annual liquid checks can be done.

Valve group is insulated with a polystyrene box to prevent the formation of condensation water.

Valve group is meant as accessory for all Gebwell heat pumps.







Collector valve group DN65-80

Collector valve group	GTIN	Feasibility, GSHP	Feasibility, kW	Expansion tank type, vol. I	Connections, GSHP	Connections, collector
DN25	6415853619813	Aries	6-13	open, 5 l	1" male	Pipe conn . 1"
DN32	6415853619752	T3 Inverter	16-30	open, 5 l	1¼" female	PEM 40
DN50	6415853619783	T3 Inverter, Gemini	30-50	-	Flange 50	Flange DN50
DN65	6415853619790	Inverter, Taurus Inverter Pro and	85	-	Flange 65	Flange DN65
DN80	6415853619806	Taurus EVIC	100	-	Flange 80	Flange DN80

Change-over valve set

The change-over valve set turns the water flow to heating domestic water or the water circulating in the heating system.

The change-over valve set includes the change-over valve and an actuator. Accessory for the Gebwell T3 Inverter, Gemini Inverter, Taurus Inverter and Taurus EVIC heat pumps.



Change-over valve set

Change-over valve set	GTIN	Feasibility, heat pump	Flow range I/s	Change-over valve KVS value
VV4 Change-over valve set 26-32 kW	6415853623599	T3 Inverter and Gemini Inverter	0,7-2,2	25
VV5 Change-over valve set 33-85 kW	6415853623605	Gemini Inverter, Taurus Inverter Pro, Taurus EVIC	1,7-7	73

Circulation pump sets for domestic water

Circulation pump set for domestic hot water circulation

The circulation pump set contains the water circulation pump, pump valve and line adjustment valve.



Hot water circulation GSHP DN20

Circulation pump set for domestic water	GTIN	Circulation pump
Hot water circulation GSHP DN15	6415853623148	Grundfos UPM3 15-50 DHW CIL
Hot water circulation GSHP DN20	64158 53623155	Grundfos UPS 25-60N
Hot water circulation GSHP DN25	64158 53623162	Grundfos UPS 25-60N
Hot water circulation GSHP DN32	64158 53623179	Grundfos UPS 25-80N
Hot water circulation GSHP DN40	64158 53623186	Grundfos UPS 25-80N

DHW shunt

DHW shunt transfers heat from accumulator tank to heat domestic hot water.

DHW shunt includes a three-way valve and actuator as well as connectors, nuts and a sensor. DHW shunt and HEX includes heat exhanger, circulation pump, connectors and a sensor.



DHW shunt 4-8 apartments

DHW shunt	GTIN 64158	Circulation pump	Control valve KVS value	Maximum flow I/s
DHW shunt 1 apartment	53623193	-	2,5	0,27
DHW shunt 2-3 apartments	53623209	-	4	0,43
DHW shunt 4-8 apartments	53623223	-	6,3	0,68
DHW shunt 9-20 apartments	53623230	-	10	1,08
DHW shunt 21-54 apartments	53623216	-	16	1,72
DHW shunt 55-129 apartments	53626507	-	25	2,69
DHW shunt 130-175 apartments	53626514	-	40	4,30
DHW shunt and HEX 1-4 apartments	53626187	Grundfos UPM Geo 25-85	-	0,55
DHW shunt and HEX 5-16 apartments	53626194	Grundfos Magna3 25-100	-	0,99
DHW shunt and HEX 17-32 apartments	53626200	Grundfos Magna3 40-120	-	1,35
DHW shunt and HEX 33-50 apartments	53626217	Grundfos Magna3 40-120	-	1,65
DHW shunt and HEX 51-100 apartments	53626224	Grundfos Magna3 40-120	-	2,27
DHW shunt and HEX 101-150 apartments	53626231	Grundfos Magna3 40-150	-	2,96

Heating control group

With heating control group the adjusting of heating network is easy

Connecting the heating control group to the heating network is easy and effortless. By connecting another control group to heat pump, you can heat damp spaces all-year round regardless of other spaces' heating needs. Heating control group is meant as accessory for all Gebwell heat pumps.

Control group includes

- Heating pump
- Shut-off valve
- Control valve with actuator
- Dirt filter
- Needed sensors, electric cables, hangers
- Wall mounting rails
 - · Reduces installation time
 - Effortless connecting of the control group to the heating network
 - Easy adjustment of the heating circuit by the heating control group



Heating control group Aries and LSR Si $\mathsf{KV4}$



Heating control group LSR Si KV6.3-16



Heating control group LSR Si KV25

Heating control group	GTIN	Feasibility, heat pump	Feasibility, radiator heating, kW	Feasibility, floor heating, kW	Valve KVS value	Circulation pump
Heating control group Aries	6415853626125	Aries	1.5-7.5	1.5-7.5	4	Grundfos UPM3 Auto 15-70
Heating control group KV4 R1-23 F1-6	6415853619820		1-23	1-6	4	Grundfos UPM3 Auto 15-70
Heating control group KV6,3 R23-45 F6-14	6415853619837		23-45	6-14	6.3	Grundfos Magna 3 25-100
Heating control group KV10 R45-70 F14-22	6415853619844	T3 Inverter, Gemini Inverter, Taurus Inverter Pro and Taurus EVIC	45-70	14-22	10	Grundfos Magna 3 25-100
Heating control group KV16 R70-110 F22-36	6415853619851		70-110	22-36	16	Grundfos Magna 3 25-100
Heating control group KV25 R110-180 F36-56	6415853619868		110-180	36-56	25	Grundfos Magna 3 40-120
Heating control group KV40 R180-240 F56-90	6415853619875		180-240	56-90	40	Grundfos Magna 3 40-120
Pump heating group 0,6 l/s - 3m	6415853619882		15-23	1-6	-	Grundfos UPM3 Auto 15-70
Pump heating group 1,7 /s - 5,5m	6415853619899		23-110	6-36	-	Grundfos Magna 3 25-100
Pump heating group 3,3 l/s - 6m	6415853619905		110-240	36-90	-	Grundfos Magna 3 40-120

Its recommended to install the block thermostat in underfloor heating. The block thermostat are delivered by Gebwell Ltd.



Pump heating group 2m3/h

Pump heating group 6m3/h

Pump heating group 12m3/h

A DESIGN MARKED

Automation accessories – Gebwell Smart heat pumps

Code	Name	Description
Expansion m	odules	
G5212254	TC1.2 expansion module for Gebwell Smart heat pump	Used with heating circuit mixing groups and flow sensors. Includes Climatix POL955 extension module and connectors. Does NOT include the valves, actuators or sensors.
G2931891	TC1.4 expansion module for Gebwell Smart heat pump	Used with cascade systems, to control additional / back-up heat. Includes Climatix POL955 extension module, connectors and two NTC10k water sensors with 4m leads.
G1716587	TC1.5 expansion module for Gebwell Smart heat pump	Used with active cooling feature. Includes Climatix POL955 extension module, connectors and activation of the feature on the controller. Does not include cooling tank, valves, actuators or sensors.
G1750700	TC1.6 expansion module for Gebwell Smart heat pump	Used with cooling circuit mixing groups. Includes Climatix POL955 extension module and connectors. Does not include valves, actuators or sensors.
G5790493	TC1.7 expansion module for Gebwell Smart heat pump	Used with DHW mixing group and heating/source circuits pressure sensors. Includes Climatix POL955 extension module and connectors. Does not include valves, actuators or sensors.
G3206076	TC1.8 expansion module for Gebwell Smart heat pump	Used with Auxilary measurement module. Includes Climatix POL955 extension module, connectors and activation of the feature on the controller. Does not include valves, actuators or sensors.
Communicat	tion modules	
G4722856	M-bus communication module	Includes POL907 module and connectors.
G7042677	Modbus RTU communication module	Modbus allows transferring data through the Modbus protocol from the controller of heat pump to the higher-level automation system Includes POL902 module and connectors.
Enclousures	for expansion modules	
G1699982	Enclousure for two POL955 extension modules.	Includes plastic enclousure, main switch, 24AC 40VA transformer and 24DC power supply. Does not include extension modules.
G6142649	Enclousure for three POL955 extension modules.	Includes plastic enclousure, main switch, 24AC 60VA transformer and 24DC power supply. Does not include extension modules.
Flow meters	·	
ENEM7000	Energy meter CLI - Aries, Taurus EVIC (de-superheater)	For measuring the energy produced. Includes connectors, seals and the sensor cable and its connectors. Feasability: 0,2-50 l/min (0,83 l/s) Maksimi: dt 5K = 17kW, dt 6K = 21kW, dt 7K = 24kW
ENEM8000	Energy meter CLI - T3 Inverter, Gemini Inverter	For measuring the energy produced. Includes connectors, seals and the sensor cable and its connectors. Feasability: 0,2-100 l/min (1,67 l/s) Maksimi: dt 5K = 35kW, dt 6K = 42kW, dt 7K = 49kW
ENEM9000	Energy meter - Taurus Inverter Pro, Taurus EVIC	For measuring the energy produced. Includes connectors, seals and the sensor cable and its connectors. Feasability: $5-300 \text{ I/min} (5,00 \text{ I/s})$ Maksimi: dt 5K = 105kW, dt 6K = 126kW, dt 7K = 147kW
The wireless The wireless quickly, accu into walls. Th measuremen	room sensor room sensor allows you to read the room temperature rately and effortlessly without installing cables or drilling e delivery includes a base station and the sensors. The its from the wireless room sensor are stored in the Gebwell	
Smart cloud. Especially red such as firep sources (sun	commended for the buildings with big internal heat loads, laces or in a properties with need to notify the external heat , people, household appliances)	
AMRanturi	Wireless sensor for indoor use	Temperature and humidity sensor for the ACR cloud base station
9005952	Cloud base station ACR + PS1	Wireless sensor and base station for the Gebwell Smart controller

Gebwell G-Energy® accumulator tanks – for heating optimisation

In water-circulating heating systems, the heat generated by the heating device is stored in energy accumulators to be used for the heating of the building and domestic water. The Gebwell G-Energy energy accumulator is a Finnish product, manufactured by experts of the heating sector at the Leppävirta factory.

Our generous product range offers models to be used with different heating methods. The G-Energy energy accumulator enables the parallel use of different heating systems. Our accumulators can be connected to underfloor or radiator heating systems. G-Energy accumulators are available for both single-family houses and large properties. Our range of models includes accumulators with 501L, 1000L, 2000L, 3000L, 4000L and 5000L capacities. Some of our accumulator models, the G-Energy Coil hot water heater and some of our buffer tanks are available in 750-litre capacity.

Easy to handle and install

Thanks to the steelframe on the bottom of the accumulator, the Gebwell accumulator is easy to transport, haul and install, regardless of model or size. The accumulators have detachable insulation, which makes it easy to carry them to confined spaces without needing to remove doorframes. Depending on the size of the accumulator, the detachable insulation comes in 3- 5 loose segments. For example, the 1000L accumulator has a diameter of 850mm without insulation. The insulation segments are attached to each other with quick latches, which makes it easy to remove or install them.

The accumulator's connections do not reside inside the insulation; to facilitate pipe installations, the connections extend to the insulation surface level. Levelling feet (adjustment tolerance 0-60 mm) allow the accumulator to be easily set to stand vertically even on an uneven surface.

High quality and long life-cycle

The Gebwell factory in Leppävirta employs strict quality controls. Robot welding ensures first-grade welding and even quality. The tanks are made out of steel, primed, and pressure tested using water. In addition, accumulators are available in stainless or acid-resistant steel for, among other things, cooling and domestic water applications. The insulation material in the accumulators is die-cast polyurethane, which has extremely good thermal insulation capacity and minimal thermal loss.

Shape wise, Gebwell's vertical cylindrical accumulator provides the best thermal option. Ease of use has also been taken into consideration in the design of connections. The drain connection located at the front of the accumulator makes it easy to drain the accumulator.

Die-cast urethane is used for insulation in accumulators, and the surface plate of the insulation segments is a painted steel plate covered with a protective membrane.

Sufficient fresh water

Using an energy accumulator is an ecological and economic way to produce a comfortable, even room temperature and sufficient hot water. The hot water accumulator stores and distributes the heat produced by heating systems, which is then used to heat the property and domestic hot water. In Gebwell accumulators, domestic water is heated in a copper coil, which offers a quick turnover of water. The coil distributes water in an energy-efficient manner ensuring freshness. Coils are ordered separately for accumulators with the exception of G-Energy Coil hot water heater, which comes with coils ready installed.

Lowerable accumulators

The steel base on the base of our cylindrical 501, 750 and 1000-litre accumulators has two parts; the lower section can be removed before installation. When lowered, the height of the 501-litre accumulator is 90 mm, the 750-litre accumulator 130 mm and the 1000-litre accumulator 150 mm lower compared to the standard.

Adjustment legs (adjustment tolerance 0–60 mm) allow the accumulator to be easily set to stand vertically even on an uneven surface.

The suitability of accumulators for different heating systems





Detachable insulation



GEBWELL

G-Energy 300 Buffer Tank

G-Energy 300 buffer tank is a module-sized 275 L buffer tank.

Buffer tanks even out the starting intervals of heating equipment and so improve the equipment's durability, e.g., a buffer tank can reduce the number of times a heat pump's compressors need to be started.

The accumulator tank is made out of stainless steel, and the surface plate is a powder coated steel plate. The insulation used in the water heater consists of 100 mm thick die-cast CFC-free polyurethane.

The polyurethane fills the space between the surface plates and the water tank completely, which gives it an extremely good thermal insulation capacity. This means that the energy efficiency of the equipment is first-rate.

The die-cast polyurethane also acts as the accumulator's frame, making it sturdy. The levelling feet on the base make installation easy.

The SV model has two electric immersion heater connections that can accommodate a 10 kilowatt electrical immersion heater at maximum. Electric immersion heaters are ordered separately.

Tank connections and connection sizes

 Charging/heating, R2"
Measurement, Ø 10mm
Electric immersion heater, R2" (300 SV)



Model		Buffer Tank 300	Buffer Tank 300 SV
GTIN		6415853623889	6415853626255
Tank capacity	L	275	275
Height	mm*	1890	1890
Width	mm	595	595
Depth	mm	595	595
Tilt measurement	mm	2000	2000
Weight	kg	90	90
Connection sizes, #1		2"	2"
Number of electric immersion heater connections	рс	0	2
Max electric immersion heater size	kW	-	10
Max temperature	°C	110	110
Max operating pressure	bar	10	10

* + Levelling feet 0-60 mm

G-Energy Buffer Tank

G-Energy buffer tanks can be used to increase the water capacity of a heating system.

A higher capacity ensures a steady and sufficient flow and improves the operation and efficiency of the heat pump. A greater water capacity also extends the duty cycles and, simultaneously, the life cycle of the compressor.

G-Energy buffer tanks are available as 501L, 750L and 1000L models, with DN50 and DN65 connections and 3 or 6 bar pressure classes.

The accumulator tank is made out of steel, primed, and pressure tested. The insulation is made out of die-cast closed-cell polyurethane, which has extremely good thermal insulation capacity and minimal thermal loss. As standard, the insulation is made out of detachable segments, which are easy to detach and reattach. The outer surface of the insulation segments is made out of painted steel plate with a protective coating.

The steel base on the base of the accumulator makes hauling easier. The base has two parts; the lower section can be removed before installation. When lowered, the height of the 501-litre accumulator is 90 mm, the 750-litre accumulator 130 mm and the 1000-litre accumulator 150 mm lower compared to the standard.

The accumulator has levelling feet with a 60 mm adjustment tolerance that makes it easy to set the accumulator to stand vertically.



Tank connections and connection sizes

- 1. Charging/heating, R2" / DN65 2. Measurement, R1/2"
- the lowermost in front R1" (2/4) 3. Venting, R2"
- 4. Drainage, R1"



G-Energy buffer tank 501 L

Model		Buffer Tank 501L 3 bar DN50	Buffer Tank 501L 3 bar DN65	Buffer Tank 501L 6 bar DN50	Buffer Tank 501L 6 bar DN65
GTIN (64158)		53623896	53623902	53623919	53623926
Tank capacity	L	501	501	501	501
Height	mm*	2030	2030	2030	2030
Height when lowered	mm*	1940	1940	1940	1940
Diameter	mm**	600 / 780	600 / 780	600 / 780	600 / 780
Tilt measurement	mm***	2100	2100	2100	2100
Weight	kg	180	180	180	180
Connection sizes, #1		2"	DN65	2"	DN65
Max temperature	°C	110	110	110	110
Max operating pressure	bar	3	3	6	6



* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy buffer tank 750 L

Model		Buffer Tank 750L 3 bar DN50	Buffer Tank 750L 3 bar DN65	Buffer Tank 750L 6 bar DN50	Buffer Tank 750L 6 bar DN65
GTIN		6430079400144	6430079400151	6430079400168	6430079400175
Tank capacity	L	750	750	750	750
Height	mm*	2100	2100	2100	2100
Height when lowered	mm*	1970	1970	1970	1970
Diameter	mm**	750 / 930	750 / 930	750 / 930	750 / 930
Tilt measurement	mm***	2100	2100	2100	2100
Weight	kg	200	200	200	200
Connection sizes, #1		2″	DN65	2"	DN65
Max temperature	°C	110	110	110	110
Max operating pressure	bar	3	3	6	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy buffer tank 1000 L

Model		Buffer Tank 1000L 3 bar DN50	Buffer Tank 1000L 3 bar DN65	Buffer Tank 1000L 3 bar DN80	Buffer Tank 1000L 6 bar DN50	Buffer Tank 1000L 6 bar DN65	Buffer Tank 1000L 6 bar DN80
GTIN (64158)		53623940	53623957	53626521	53623964	53623971	53626538
Tank capacity	L	1000	1000	1000	1000	1000	1000
Height	mm*	2150	2150	2150	2150	2150	2150
Height		2000	2000	2000	2000	2000	2000
Diameter	mm**	850 / 1030	850 / 1030	850 / 1030	850 / 1030	850 / 1030	850 / 1030
Tilt measurement	mm***	2200	2200	2200	2200	2200	2200
Weight	kg	260	260	260	260	260	260
Connection sizes, #1		2"	DN65	DN80	2"	DN65	DN80
Max temperature	°C	110	110	110	110	110	110
Max operating pressure	bar	3	3	3	6	6	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy SV Buffer Tank

A buffer tank with three connections for electric immersion heaters. The 501-litre models are equipped with three connections for electric immersion heaters, the 750-litre model with three or six connections and 1,000-litre models come with three, six or eight electric immersion heater connections. Electric immersion heaters are ordered separately.

According to need, the tank is equipped with electric immersion heaters to ensure sufficient heating and domestic hot water. Equipping the tank with electric immersion heaters enables, for instance, a wood-heated house to be heated with electricity during a holiday trip.

The accumulator tank is made out of steel, primed, and pressure tested. The insulation is made out of die-cast closed-cell polyurethane, which has extremely good thermal insulation capacity and minimal thermal loss. As standard, the insulation is made out of detachable segments, which are easy to detach and reattach. The outer surface of the insulation segments is made out of painted steel plate with a protective coating.

The steel base on the base of the accumulator makes hauling easier. The base has two parts; the lower section can be removed before installation. When lowered, the height of the 501-litre accumulator is 90 mm, the 750-litre accumulator 130 mm and the 1000-litre accumulator 150 mm lower compared to the standard.

3. Venting, R2"

The accumulator has levelling feet with a 60 mm adjustment tolerance that makes it easy to set the accumulator to stand vertically.





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G-Energy Bufferttank SV 1000 L 8SV DN65

G-Energy SV buffer tank 501 and 750 L

Model		SV Buffer Tank 501 L	SV Buffer Tank 750 L 3 bar 3SV	SV Buffer Tank 750 L 3 bar 6SV	SV Buffer Tank 750 L 6 bar 3SV	SV Buffer Tank 750 L 6 bar 6SV
GTIN		6415853623933	6430079400199	6430079400182	6430079400212	6430079400205
Tank capacity	L	501	750	750	750	750
Height	mm*	2030	2100	2100	2100	2100
Height when lowered	mm*	1940	1970	1970	1970	1970
Diameter	mm**	600 / 780	750 / 930	750 / 930	750 / 930	750 / 930
Tilt measurement	mm***	2100	2100	2100	2100	2100
Weight	kg	180	200	200	230	230
Connection sizes, #1		2"	2"	2"	2"	2"
Number of el. immersion heater connections	рс	3	3	6	3	6
Max electric immersion heater capacity	kW		12	12	12	12
Max temperature	°C	110	110	110	110	110
Max operating pressure	bar	3	3	3	6	6

*+Levelling feet 0-60mm ** Measurements: insulation removed/installed (insulation thickness 90mm) *** Tilt measurement with insulation detached

G-Energy SV buffer tank 1000 L

Model		SV Buffer Tank 1000 L	SV Buffer Tank 1000 L 3 bar 6SV	SV Buffer Tank 1000 L 6 bar 6SV	SV Buffer Tank 1000 L 6 bar 8SV DN65
GTIN		6415853626026	6415853626262	6415853626286	6415853626705
Tank capacity	L	1000	1000	1000	1000
Height	mm*	2150	2150	2150	2150
Height	mm*	2000	2000	2000	2000
Diameter	mm**	850 / 1030	850 / 1030	850 / 1030	850 / 1030
Tilt measurement	mm***	2200	2200	2200	2200
Weight	kg	260	260	260	260
Connection sizes, #1		2"	2"	2"	DN65
Number of el. immersion heater connections	рс	3	6	6	8
Max electric immersion heater capacity	kW	12	12	12	12
Max temperature	°C	110	110	110	110
Max operating pressure	bar	3	3	6	6

*+Levelling feet 0-60mm ** Measurements: insulation removed/installed (insulation thickness 90mm) *** Tilt measurement with insulation detached

G-Energy PW Buffer Tank

G-Energy PW buffer tanks are suitable for domestic water preheating and heating system buffer tanks.

Buffer tanks reduce the number of start-up times of heating equipment, such as heat pump compressors. In properties with a heat pump, the preheating of domestic water enables the domestic hot water to be heated more energy efficiently and improves the sufficiency of domestic hot water. The G-Energy PW buffer tank includes two flanges domestic hot water preheating coils. The 501 and 750 -litre G-Energy PW buffer tanks are equipped with three connections for electric immersion heaters, and the 1,000-litre models come with three or six electric immersin heater connections. The coils and electric immersion heaters are to be ordered separately.

The accumulator tank is made out of steel, primed, and pressure tested. The accumulator insulation is made out of die-cast closedcell polyurethane, which has extremely good thermal insulation capacity and minimal thermal loss. As standard, the insulation is made out of detachable segments, which are easy to detach and reattach. The outer surface of the insulation segments is made out of painted steel plate with a protective coating.

The steel base on the base of the accumulator makes hauling easier. The base has two parts; the lower section can be removed before installation. When lowered, the height of the 501-litre accumulator is 90 mm, the 750-litre accumulator 130 mm and the 1000-litre accumulator 150 mm lower compared to the standard.

The accumulator has levelling feet with a 60 mm adjustment tolerance that makes it easy to set the accumulator to stand vertically.





Accumulator connections and connection sizes

- 1. Charging/heating, R2"
- 2. Measurement, R1/2"
- the lowermost on side R1" (2/4)
- 3. Venting, R2"
- 4. Drainage, R1"
- 5. Electric immersion heater, R2"
- 6. Coil flange, Ø 200mm

G-Energy PW Buffer tank 501 and 750 L

Model		PW Buffer Tank 501L 3 BAR 3SV	PW Buffer Tank 501L 6 BAR 3SV
GTIN		6415853623841	6415853623858
Tank capacity	L	501	501
Height	mm*	2030	2030
Height when lowered	mm*	1940	1940
Diameter	mm**	600 / 780	600 / 780
Tilt measurement	mm***	2100	2100
Weight	kg	200	200
Connection sizes, #1		2"	2"
Max coil size		LK55, bent	LK55, bent
Number of electric imm. heater connections	рс	3	3
Max electric immersion heater capacity	kW	12	12
Max temperature	°C	110	110
Max operating pressure	bar	3	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy PW Buffer tank 750 L

Model		PW Buffer Tank 750L 3 BAR 3 SV	PW Buffer Tank 750L 6 BAR 3 SV
GTIN		6430079400045	6430079400052
Tank capacity	L	750	750
Height	mm*	2100	2100
Height when lowered	mm*	1970	1970
Diameter	mm**	750 / 930	750 / 930
Tilt measurement	mm***	2100	2100
Weight	kg	200	230
Connection sizes, #1		2"	2"
Max coil size		LK55, bent	LK55, bent
Number of electric imm. heater connections	рс	3	3
Max electric immersion heater capacity	kW	12	12
Max temperature	°C	110	110
Max operating pressure	bar	3	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy PW Buffer Tank 1000 L

Model		PW Buffer Tank 1000L 3 BAR 3 SV	PW Buffer Tank 1000L 3 BAR 6 SV	PW Buffer Tank 1000L 6 BAR 3 SV	PW Buffer Tank 1000L 6 BAR 6 SV
GTIN		6415853623865	6415853626316	6415853623872	6415853626330
Tank capacity	L	1000	1000	1000	1000
Height	mm*	2150	2150	2150	2150
Height when lowered	mm*	2000	2000	2000	2000
Diameter	mm**	850 / 1030	850 / 1030	850 / 1030	850 / 1030
Tilt measurement	mm***	2200	2200	2200	2200
Weight	kg	280	280	280	280
Connection sizes, #1		2"	2"	2"	2"
Max coil size		LK55	LK55	LK55	LK55
Number of electric imm. heater connections	рс	3	6	3	6
Max electric immersion heater capacity	kW	12	12	12	12
Max temperature	°C	110	110	110	110
Max operating pressure	bar	3	3	6	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy Coil Water Heater

Equipped with coils, G-Energy Coil is suitable for heating domestic hot water together with a heat pump.

The G-Energy Coil water heater is available in 501, 750 and 1000 liter models in 3 and 6 bar pressure classes. Depending on the size, the water heater includes one to four 25-metre-long coils. The 501L model is equipped with 1-2 coils. The 750L and the 1000L models are equipped with 1-4 coils. The domestic hot water is heated in coils with maximum pressure of 10 bar.

The 501 and 1000L models come with two connections for electric immersion heaters and the 750L model with three connections. The electric immersion heaters are ordered separately.

The accumulator tank is made out of steel, primed, and pressure tested. The insulation of 501 and 1000-liter is made out of die-cast closed-cell polyurethane, which has extremely good thermal insulation capacity and minimal thermal loss. As standard, the insulation is made out of detachable segments, which are easy to detach and reattach. The outer surface of the insulation segments is made out of painted steel plate with a protective coating. The insulation in 750-litre SV buffer tank is made of polyester fibre, and the insulation has PVC coating. The removable insulation can be removed by opening the zipper.

The steel base on the base of the accumulator makes hauling easier. The base has two parts; the lower section can be removed before installation. When lowered, the height of the 501-litre accumulator is 90 mm, the 750-litre accumulator 130 mm and the 1000-litre accumulator 150 mm lower compared to the standard.

The accumulator has levelling feet with a 60 mm adjustment tolerance that makes it easy to set the accumulator to stand vertically.







G-Energy Coil Water Heater 501 L

Model		Coil 501 1x25 3 BAR	Coil 501 1x25 6 BAR	Coil 501 2x25 3 BAR	Coil 501 2x25 6 BAR
GTIN		6415852380554	6415852380578	6415852380561	6415852380585
Tank capacity	L	501	501	501	501
Height	mm*	2030	2030	2030	2030
Height when lowered	mm*	1940	1940	1940	1940
Diameter	mm**	600 / 780	600 / 780	600 / 780	600 / 780
Tilt measurement	mm***	2100	2100	2100	2100
Weight	kg	205	205	225	225
Connection sizes, #2		2"	2"	2"	2"
Number of coils	рс	1	1	2	2
Recommended flow in coils	l/s	0.35	0.35	0.7	0.7
Number of heater connections	рс	2	2	2	2
Max electric immersion heater capacity	kW	12	12	12	12
Max temperature	°C	110	110	110	110
Max oper. pressure	bar	3	6	3	6

*+Levelling feet 0-60mm ** Measurements: insulation removed/installed (insulation thickness 90mm) *** Tilt measurement with insulation detached

G-Energy Coil Water Heater 750 L

Model		Coil 750 1x25 3 BAR	Coil 750 1x25 6 BAR	Coil 750 2x25 3 BAR	Coil 750 2x25 6 BAR	Coil 750 3x25 3 BAR	Coil 750 3x25 6 BAR	Coil 750 4x25 3 BAR	Coil 750 4x25 6 BAR
GTIN number (64033079)		400069	400076	400083	400090	400106	400113	400120	400137
Tank capacity	L	750	750	750	750	750	750	750	750
Height	mm*	2100	2100	2100	2100	2100	2100	2100	2100
Height when lowered	mm*	1970	1970	1970	1970	1970	1970	1970	1970
Diameter	mm**	750 / 930	750 / 930	750 / 930	750 / 930	750 / 930	750 / 930	750 / 930	750 / 930
Tilt measurement	mm***	2100	2100	2100	2100	2100	2100	2100	2100
Weight	kg	225	255	250	280	275	305	300	330
Connection sizes, #2		2"	2"	2″	2″	2"	2"	2"	2"
Number of coils	рс	1	1	2	2	3	3	4	4
Recommended flow in coils	l/s	0.35	0.35	0.7	0.7	1.05	1.05	1.4	1.4
Number of electric immersion heater connections	рс	3	3	3	3	3	3	3	3
Maximum electric immersion heater capacity	kW	12	12	12	12	12	12	12	12
Max temperature	°C	110	110	110	110	110	110	110	110
Max operating pressure	bar	3	6	3	6	3	6	3	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm) *** Tilt measurement with insulation detached

G-Energy Coil Water Heater 1000 L

Model		Coil 1000 1x25 3 BAR	Coil 1000 1x25 6 BAR	Coil 1000 2x25 3 BAR	Coil 1000 2x25 6 BAR	Coil 1000 3x25 3 BAR	Coil 1000 3x25 6 BAR	Coil 1000 4x25 3 BAR	Coil 1000 4x25 6 BAR
GTIN (64158)		52380776	52380783	52380592	52380622	52380608	52380639	52380615	52380646
Tank capacity	L	1000	1000	1000	1000	1000	1000	1000	1000
Height	mm*	2150	2150	2150	2150	2150	2150	2150	2150
Height when lowered	mm*	2000	2000	2000	2000	2000	2000	2000	2000
Diameter	mm**	850 / 1030	850 / 1030	850 / 1030	850 / 1030	850 / 1030	850 / 1030	850 / 1030	850 / 1030
Tilt measurement .	mm***	2200	2200	2200	2200	2200	2200	2200	2200
Weight	kg	295	295	305	305	330	330	350	350
Connection sizes, #2		2"	2"	2"	2"	2"	2"	2"	2"
Number of coils	рс	1	1	2	2	3	3	4	4
Recommended flow in coils	l/s	0.35	0.35	0.7	0.7	1.05	1.05	1.4	1.4
Number of electric immersion heater connections	рс	2	2	2	2	2	2	2	2
Maximum electric immersion heater capacity	kW	12	12	12	12	12	12	12	12
Max temperature	°C	110	110	110	110	110	110	110	110
Max oper. pressure	bar	3	6	3	6	3	6	3	6

* +Levelling feet 0-60mm

** Measurements: insulation removed/installed (insulation thickness 90mm)

*** Tilt measurement with insulation detached

G-Energy Cooling Buffer Tank

G-Energy Cooling is a buffer tank designed for cooling systems.

G-Energy Cooling can be used as a buffer tank for, e.g., water coolers and other mechanical cooling systems. Buffer tanks even out the conditions between the start-up times of cooling equipment and reduce the number of times compressors need to be started.

The G-Energy Cooling buffer tank is available as 501L, 1000L and 2000L models and in 3 or 6 bar pressure classes.

G-Energy Cooling is available with either a surface-treated steel or a stainless steel tank. The accumulator tanks are pressure-tested at the factory. A buffer tank has a 19mm cellular rubber insulation.

The steel base on the base of the accumulator makes hauling easier. The base on 501 and 1000 liter tanks has two parts; the lower section can be removed before installation. When lowered, the height of the 501 L accumulator tank is 90 mm, and the 1000 L accumulator tank 150 mm lower compared to the standard.

The accumulator has levelling feet with a 60 mm adjustment tolerance that makes it easy to set the accumulator to stand vertically.





Tank connections and connection sizes

- 1. Charging/cooling, DN80/100
- 2. Venting, R1"
- 3. Drainage, R1" 4. Measurement, R1/2"
- the lowermost in front R1" (3/4)

Model		Cooling 501 3 BAR	Cooling 501 6 BAR	Cooling 1000 3 BAR	Cooling 1000 6 BAR	Cooling 2000 3 BAR	Cooling 2000 6 BAR
GTIN (64158)		52380714	52380721	52380738	52380745	52380752	52380769
Tank capacity	L	501	501	1000	1000	2000	2000
Height	mm*	2010	2010	2130	2130	2200	2200
Height when lowered	mm*	1920	1920	1980	1980		
Diameter	mm	640	640	890	890	1240	1240
Tilt measurement	mm	2100	2100	2200	2200	2300	2300
Weight	kg	180	180	260	260	400	400
Connection sizes #1	DN	DN80	DN80	DN80	DN80	DN80	DN80
Material		steel	steel	steel	steel	steel	steel
Max temperature	°C	110	110	110	110	110	110
Max operating pressure	bar	3	6	3	6	3	6

G-Energy Cooling Buffer Tank

* +Levelling feet 0-60 mm

G-Energy Cooling RST Buffer Tank

Model		Cooling RST 501 3 BAR	Cooling RST 501 6 BAR	Cooling RST 1000 3 BAR	Cooling RST 1000 6 BAR	Cooling RST 2000 3 BAR	Cooling RST 2000 6 BAR
GTIN (64300)		79400441	79400458	79400465	79400472	79400489	79400496
Tank capacity	L	501	501	1000	1000	2000	2000
Height	mm*	2010	2010	2130	2130	2200	2200
Height when lowered	mm*	1920	1920	1980	1980		
Diameter	mm	640	640	890	890	1240	1240
Tilt measurement	mm	2100	2100	2200	2200	2300	2300
Weight	kg	180	180	260	260	400	400
Connection sizes #1	DN	DN80	DN80	DN100	DN100	DN100	DN100
Material		stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Max temperature	°C	110	110	110	110	110	110
Max operating pressure	bar	3	6	3	6	3	6

* +Levelling feet 0-60 mm

G-Energy EV energy accumulator

G-Energy EV is an accumulator that can be used with, e.g., wood, pellet, oil along other water-circulating heating systems.

The accumulator has four heater connections that can be equipped with electric immersion heaters, which will take care of heating water in case the heating system switches off or a fault occurs.

The G-Energy EV accumulator has two coil flanges: the upper flange enables the installation of a domestic hot water coil, and the lower one the installation of a domestic water preheating coil or, for instance, a solar power or other charging coil. The lower charging connections of the accumulator include guide pipes to generate the right kind of heat layering. Coils are to be ordered seperately.

The G-Energy EV accumulator comes with a 501L, 1000L, 2000L, 3000L, 4000L or 5000L capacity.

The accumulator tank is made out of steel, primed, and pressure tested. The accumulator insulation is made out of die-cast closed-cell polyurethane, which has extremely good thermal insulation capacity and minimal thermal loss. As standard, the insulation is made out of detachable segments, which are easy to detach and reattach. The outer surface of the insulation segments is made out of painted steel plate with a protective coating.

The steel base on the base of the accumulator makes hauling easier. The base on 501 and 1000 liter tanks has two parts; the lower section can be removed before installation. When lowered, the height of the 501-litre accumulator is 90 mm, the 750-litre accumulator 130 mm and the 1000-litre accumulator 150 mm lower compared to the standard.

The accumulator has levelling feet with a 60 mm adjustment tolerance that makes it easy to set the accumulator to stand vertically.

Accumulator connections and connection sizes

- 1. Coil flange, Ø 200mm
- 2. Charging/heating, R2"
- 3. Venting, R1"
- 4. Electric immersion heater, R2"
- 5. Drainage, R1" 6. Measurement, R1/2"
- the lowermost in front R1" (5/6)



Model		G-Energy EV 501	G-Energy EV 1000	G-Energy EV 2000	G-Energy EV 3000	G-Energy EV 4000	G-Energy EV 5000
GTIN (64158)	standard	52380271	52380288	52380295	52380301	52380318	52380325
Tank capacity	L	501	1000	2000	3000	4000	5000
Height	mm*	2030	2150	2250	2400	2450	2550
Height when lowered	mm*	1940	2000				
Diameter	mm**	600 / 780	850 / 1030	1200 / 1380	1400 / 1580	1600 / 1780	1800 / 1980
Tilt measurement	mm***	2100	2200	2300	2450	2600	2700
Weight	kg	180	260	400	470	620	690
Connection sizes, #2		2"	2"	2"	2″	2"	2"
Max coil size		LK55, bent	LK55	LK90	LK90	LK90	LK90
Number of electric immersion heater connections	рс	4	4	4	4	4	4
Max heater capacity	kW	12	12	12	12	12	12
Max temperature	°C	110	110	110	110	110	110
Max operating pressure	bar	3	3	3	3	3	3

*+Levelling feet 0-60mm ** Measurements: insulation removed/installed (insulation thickness 90mm) *** Tilt measurement with insulation detached



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Gebwell KVL300 hot water heater

Gebwell KVL300, modular hot water heater is designed for producing and storing domestic hot water for detached, row and vacation houses. The hot water heater produces enough hot water for the entire family. The advanced insulation solutions result in substantial additional savings and reduce environmental impact.

Gebwell thermal storage tanks have been designed, manufactured and tested in Finland. When designing the storage tanks, attention has been paid to allow easy installation and servicing. The storage tanks have been manufactured using high-quality components and operational reliability and usability are top class.

Gebwell KL300 is a vertical, free-standing unit. The installation is made easier using levelling feet on the base.

Tank of the hot water heater is made of special stainless steel. The maximum service pressure of the tank is 1.0 MPa (10 bar). Exterior is made of white powder-painted steel sheet metal. Other colour options are available upon special order.

Insulation in the hot water heater is pressuremoulded, freon-free polyurethane. The urethane fills the entire space between the exterior sheeting and the water tank, which results in excellent thermal insulation properties and top-notch energy-efficiency. Pressure-moulded polyurethane also acts as the frame of the storage tank and makes it sturdy.

The heating element in the KVL300 is an Incoloy Electric immersion heater which can be used with either 1- or 3-phase connection.

The KVL300 hot water heater is equipped with continuous heating temperature control, a maximum temperature limiter (thermostat and overheating protection) and an on-off switch.

Gebwell KVL300 hybrid

Gebwell KVL300 hybrid is a hot water heater equipped with a heating coil specially designed for heat pumps, but it may also be used with other sources of heat such as oil or wood boilers and even with solar heating systems. Using a coil to heat the water means that the hot water can be pumped out more quickly.

Installation

In the back of the hot water heater, there is room on both sides of the tank for pipe installations directing either up or to the side.

The hot water heater has a mixture valve and a set of safety valves (thermostat valve, shut-off/ check valve, safety/drainage valve) for water connections. The set of safety valves include a safety valve that opens at 1.0 MPa (10 bar).

Warranty

Gebwell hot water tanks have a two-year warranty against defects in materials and manufacturing defects.

Manufactured in Finland Energy saving Noiseless Continuous heating temperature control Easy installation

	Gebwell KVL300	Gebwell KVL300 hybrid**
GTIN	6415852380523	6415852380547
Colour	White	White
Volume	2751	275
Max. allowed temperature	100 °C	100 °C
Min. allowed temperature	0 °C	0 °C
Max. allowed operating pressure	1,0 MPa	1,0 MPa
Power	3 kW	3 kW
Heat loss	1,23 kWh / day	1,23 kWh / day
Heating coil	no	yes, 25m
Max. recommended heat pump capacity	-	16 kW
Energy efficiency class	C	С
Voltage	50/60 Hz 230/400 V 3P~/ 1P~	50/60 Hz 230/400 V 3P~/ 1P~
Protection class*	IPX4	IPX4
Recommended fuse size	3x6 / 1x16	3x6 / 1x16
Maximum fuse size	3x16 / 1x16	3x16 / 1x16
Dimensions (depth, width, height)	595 x 595 x 1890 mm	595 x 595 x 1890 mm
Weight	90 kg	105 kg

* The IPX4 splash proof IP rating is achieved by installing the accumulator on a solid floor next to a wall.

** pat.pend. PCT/FI2015/050941

G-Energy Custom Accumulator

A special accumulator for installations not suitable for our standard models.

Equipped with flexible features, the special model is fully customisable. The customer can select the capacity, material, pressure class and insulation material of the accumulator. The size of connections and the number and placement of connections and sensor pockets can also be customised. The special accumulator is available either with or without a bulkhead.





G-Energy Custom is tailored to the property and is available with, for instance, the following features:

- Capacity 501, 750, 1000, 2000, 3000, 4000 or 5000 litres
- Pressure class 1.5-10 bars
- Connections the number, size and location as required
- Tank material FE, HST or RST (maximum temperature 40 °C) .
- Insulation material polyurethane, cellular rubber, polyester fibre or no insulation
- Bulkhead the accumulator comes with or without a bulkhead

Model		Custom 501	Custom 750	Custom 1000	Custom 2000	Custom 3000	Custom 4000	Custom 5000		
Tank capacity	L	501	750	1000	2000	3000	4000	5000		
Height	mm 1	2030	2130	2150	2250	2400	2450	2550		
Diameter	mm ²	600 / 780	750 / 950	850 / 1030	1200 / 1380	1400 / 1580	1600 / 1780	1800 / 1980		
Tilt measurement	mm ³	2100	2100	2200	2300	2450	2600	2700		
Weight	kg		depends on the model							
Connection sizes			as desired							
Max coil size		LK55	LK55	LK90	LK140	LK180	LK180	LK180		
Max number of vertical coils	рс	3 4	4	5	7	8	8	10		
Number of heater connections	рс				as desired		,			
Max heater capacity	kW	12 4	12	12	12	12	12	12		
Max temperature	°C	110	110	110	110	110	110	110		
Max operating pressure FE ⁵	bar	6	6	6	6	6	3	3		
Max operating press. stainless steel ⁵	bar	10	6	6	6	6	3	3		

1 +Levelling feet 0-60mm 2 Measurements: insulation removed/installed (insulation thickness 90mm) 3 Tilt measurement with insulation detached using the height and diameter measurements above 4 With three vertical coils in 501 liter accumulator tank, the maximum heater capacity is 6 kW 5 Larger operating pressures are to be consulted case by case with Gebwell Ltd. sales

NOTE! The accumulators can be made lower within certain parameters

Domestic hot water coil

Coil for producing domestic hot water in acccumulator tanks.

Producing domestic hot water in high-speed flow copper coil is energy efficient and ensures freshness of water. Structural pressure of the coil is 10 bar and material is 22 mm finned copper.

Coils are ordered on tanks separately with the exception of G-Energy Coil water heaters, which come with coils installed.



Model	GTIN number	Maximum flow I/s	Copper pipe length m	Heat transfer area m ²	Connection DN/UK	Flange diameter mm	Feasibility, tank capacity └
LK45 Coil	6415853619554	0.5	12	2,8	20	200	1000-5000
LK45 Coil, bent	6430079400427	0.5	12	2,8	20	200	501-5000
LK55 Coil	6415853619561	1.0	2 x 6	2,8	32	200	1000-5000
LK55 Coil, bent	6430079400434	1.0	2 x 6	2,8	32	200	501-5000
LK90 Coil	6415853619578	1.0	2 x 12	5,7	32	200	1000-5000

Electric immersion heater

Immersion heaters are delivered with a thermostat and a limiter.

The operation of the accumulator can be secured by equipping it with one or more electric immersion heaters, in case the heating system is switched off or malfunctions. In addition, an accumulator equipped with Electric immersion heaters can be used for heating a wood-heated house electrically during a holiday trip, for example.



12 kW electric immersion heater and limiter

2-10 kW electric immersion heater and limiter

Model	GTIN number	Capacity kW	Material	Connection	Length mm	Immersion depth mm	Cool end mm
Electric immersion heater 2 kW	6415853623070	2.0	AISI 316L	2"	254	240	95
Electric immersion heater 3 kW	6415853623087	3.0	AISI 316L	2"	269	255	95
Electric immersion heater 5 kW	6415853623094	5.0	AISI 316L	2"	399	385	95
Electric immersion heater 6 kW	6415853623100	6.0	AISI 316L	2"	399	385	95
Electric immersion heater 7.5 kW	6415853623117	7.5	AISI 316L	2"	455	441	95
Electric immersion heater 9 kW	6415853623124	9.0	AISI 316L	2"	455	441	95
Electric immersion heater 10 kW	6415853623131	10.0	AISI 316L	2"	455	441	95
Electric immersion heater 12 kW	6415853626132	12.0	AISI 316L	2"	530	516	95

Gebwell G-Power® **substation unit for detached houses** – Reliable heating for the small properties

G-Power is the perfect solution for connecting single-family houses to district heating network. G-Power is applicable for new build as well as refurbishing and it can be used along with both radiator and under-floor heating.

District heating substation G-Power is a simple, carefree and reliable heating system ensuring stable, pleasant and comfortable room temperature and sufficient supply of domestic hot water.

A substation with two circuits is independent system for heating supply and hot water preparation. The third additional circuit in three-circuit substations can be used to heat wet rooms all year round regardless of the heating need of the other rooms, for example.

G-Power is light and compact of structure and neatly polished of appearance. The design and realization seek to ease the installability and usability, which are at an outstanding level in G-Power, making it an excellent choice.

- Manufactured in Finland
- · Light weight and compact design
- Excellent control automation
- A energy class circulation pumps
- Easy to install and maintain
- Neat appearance
- Stainless steel pipes

Stardard equipment

- · Electronic regulators for regulating the heating circuit
- Heating circulation pump
- Domestic hot water circulation pump
- Brazed plate heat exchangers for heating and domestic water
- Plug for electrical connection
- Control centre with operation switches for pumps
- Shut-off and safety valves, fill-up valve and feed valve for domestic hot water
- Pressure gauges
- Expansion tank
- Shut down thermostat for heating circulation pump
- The primary circuit equipment has been integrated into the substation



G-Power 2/100 and 2/150

Accessories

- Differential pressure controller if required by location conditions
- GSM-modem for remote monitoring and control (Ouman automatics)
- Pressure shock damper to compensate possible pressure shocks in domestic hot water system

Installation

G-Power district heating substations feature excellent installability. The substations include a wall mounting kit. The substation piping is connected to district heating network and to heating and domestic water circuits.

G-Power substation can be connected to district heating network and to heating network either from bottom or top. Cold water supply, domestic hot water and hot water circulation are connected from below. The substation is connected to the electrical network with a plug, and the external sensor is connected to the control centre with a plug connection.

Gebwell G-Power®	GTIN (64158)	DHW, kW	Radiator heating, kW		Une	der floor heat kW	ing,	Dimensions, mm	Weight, kg
	Primary Secondary	70-20°C / 10-58°C	90-63°C / 60-80°C	90-43°C / 40-70°C	90-33°C / 30-39°C	90-33°C / 30-37°C	90-33°C / 30-35°C	D x W x H	kg
2/100H A/B	53220064/71	60	15	18	21	16	11	460 x 560 x 1000	38
2/150H A/B	53220149/56	100	15	18	21	16	11	460 x 560 x 1000	41
3/100H A/B	53220026/88	60	15	18	21	16	11	460 x 560 x 1000	51
3/150H A/B	53220170/87	100	15	18	21	16	11	460 x 560 x 1000	54
2/200	53220095	120	31	50	22	17	12	500 x 760 x 1200	55

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G-Power markings

- G-Power 2/100 H A
- 2/3 number of circuits
- 100 Power class: detached houses
- 150 Power class: semi-detached houses
- 200 Power class: semi-datached and terraced house
- H Hexonic heat exchangers
- A/B Valve size:
 - A DHW: 1,6 and heating 0,4
 - B DHW: 1,0 and heating 0,25

- All the substation can be connected to radiator or underfloor heating
- The 3. circuit dimensioning on 3/100 and 3/150 are according to the maximum power of 30-39C temperature programme



G-Power 3/100 and 3/150



G-Power 2/200

Gebwell G-Power® district heating substation – Reliable heating for large properties

G-Power is prefabricated substation unit for safe connection of buildings to district heating. G-Power is applicable both for new build and refurbishing. It is effective solution that ensures stable and comfortable indoor temperature and sufficient hot water supply.

G-Power may have one or multiple circuits. Substation unit has a light and compact structure and neatly polished appearance. The design and realisation seek to ease the installability and usability, which are at an outstanding level in G-Power, making it the best choice there is.

G-Power substation units manifest long-term experience, uncompromising quality standards, and production efficiency. Application with high quality components of world famous brands ensures lower operating costs and durability. Strict quality control is present at all stages of production – all units are tested in factory conditions and ready for use. Due to adjustable base substation unit can be installed directly on the floor. After connection to district heating, building circuits, electricity supply, outdoor temperature sensor and connections for the necessary external controls and alarms – system is ready for operation.

Equipment

The standard factory-made G-Power substation unit with two circuits includes:

- Insulated brazed or openable plate heat exchangers
- Electronic actuators for control of heating and domestic hot water circuits
- Circulation pumps for each circuit
- Shut-off and balancing valves
- Strainers
- Fill-up valve for heating system, feed valve for domestic cold water and valves for hot water circulation pump
- In Gebwell deliveries with automation included, pressure transmitter is included as standard
- · Ready-made internal electrical connections
- Pump control centre including the main switch, motor protection switches, signal lights, alarm contacts and the controller

Accessories

- Heat meter
- Water meter
- Thermometers
- Connection assembly set for primary circuit
- Deaerator
- Room temperature sensor
- Safety valves for heating network
- Differential pressure controller
- Expansion tank
- Sidestream filter
- Extra mixing circuit for A/C or underfloor heating, for example
- And other accessories



- Manufactured in Finland
- Light weight, compact design
- · Easy hauling, installation and maintenance
- · High quality components
- Plate heat exchangers, heat delivery surface plates made of acid resistant steel
- · Electronic controllers for heat control

Technical values	
Design pressure	PN 16 (PN 25)
DH inlet temperature	Tmax = 120°C (150°C)
Electrical supply	230/400 VAC
Approvals	CE label in accordance with the requirements of pressure equipment directives PED 97/23/EC EAC (EurAsian Conformity Mark)

Gebwell G-Power® Smart district heating substation – Smart heating for large properties

The Gebwell G-Power Smart district heating substation always comes with an internet connection. Using a cloud service, the system connects to the Gebwell Smart hub, where those responsible for the heating of the property can easily monitor and adjust the system via the remote connection. Using the system via a remote connection saves time, money and effort.

G-Power Smart district heating substation allows for adding a parallel heat source, such as heat recovery from exhaust air or ground source heat.

Optional, flat-specific temperature and relative humidity measurements, remote meter readings for cold and hot water, up-to-date measurement data and APIs for property management systems, for example, are available for G-Power Smart District Heating Substation.

The G-Power Smart district heating substation n is ideal for radiator, underfloor and air heating as well as for the heating of domestic water. The heating substation is designed so as to enable connecting large residential properties as well as commercial and industrial properties to district heating. It can be fitted in new constructions and renovation projects. G-Power Smart is available as 1-circuit and multiple circuits versions. The G-Power Smart District Heating Substation is designed to be installed on a floor and is delivered equipped with an adjustable stand.

The pipes of the heating substation are connected to district heating, heating, ventilation and domestic water networks. Additionally, you need to connect electricity, an external probe, and any required external control and alarm systems.

- Manufactured in Finland
- Parallel heating source ready
- Remote monitoring and control using browser-based Gebwell Smart hub
- Allows for various extensions including flat-specific measurements, remote water meter readings, and adjustments based on local weather forecasts

Accessories for G-Power Smart system

- · Adjustments according to local weather forecast
- Accurate and precise flat-specific measurements
- · Smart radiator valves
- · Remote water meter readings
- APIs



Gebwell G-Power® **Compact district heating substation** – Small size district heating substation to be mounted on the wall

G-Power district heating substation is now also available as a wall-mounted model. G-Power Compact district heating substation is especially suitable for small utility rooms. G-Power Compact is designed for connecting terraced houses and apartment buildings to district heating and are suitable for both new build and refurbishing.

G-Power Compact heat distribution center requires only 700 mm wide installation space. Primary connections are on the left side, so the district heating pipes can be connected easily to the left, up or down. G-Power Compact substations are made according to recommended connection 2 given on K1 of Finnish Energy Industries. G-Power Compact is available with 1, 2 or 3 circuits.

Technical data	G-Power® Compact		
		Power class	
DHW		110-250 kW	
Heating	Underfloor heating (30-35)	0-65 kW	
	Radiator heating (30-60)	0-275 kW	
Dimensions W x H x D	700 mm x 1100 mm x 650 mm (2-circuit)		
Automation options	Ouman or Siemens		
Control valve options	Ouman or Siemens		
Differential pressure controller	Accessory, separate delivery		
Water meter	Accessory, separate delivery		
Design pressure	PN 16		
DH inlet temperature	Tmax = 120°C (130°C)		
Electrical supply	230 VAC		

- Manufactured in Finland
- To be mounted on the wall
- Light and compact
- Easy hauling, installation and maintenance
- High quality components
- Designed especially for small utility rooms
- For terraced houses and apartment buildings



Gebwell district cooling substation

- energy efficient cooling of properties

More and more in Europe, especially in Northern countries like Finland, the cooling of properties is being centralized. The principle of district cooling system is similar to that of district heating. In district cooling, cold is produced in centralized plants, from where it is transported in form of water in pipeline network and delivered to consumer homes, where is subsequently used for cooling.

District cooling systems can serve different kind of properties, including offices, apartment buildings, hotels, sports fields, etc.

District cooling systems are much more efficient than conventional air conditioning systems, as worked out heat by cooling can be centrally disposed of and re-used. This way the system does not only save money, but also reduces greenhouse gas emissions.

In conventional air conditioning systems the unneeded heat in most cases is thrown in the air and not used. In district cooling the excess heat is gathered from the consumer to energy company's district cooling water and reused for district heating.

For the distribution of cooling in buildings special cooling substations are used, distributing the right amount of energy in the building. G-Power substation units, which are adapted for cooling, can be used for this purpose. The cooling can be distributed by using local fan coil units, central air cooling system, chilled ceilings and other systems.

- Improved energy efficiency
- Comfort and convenience for consumers
- · Lack of noisy equipment in a window or on the roof
- Environment protection
- Reliability
- Reduction of costs in construction phase
- Improving building's aesthetics



- Manufactured in Finland
- · High quality components
- Brazed or gasketed plate heat exchangers
- · Light weight and compact design
- Easy to hauling, installation and maintenance

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Design pressure	PN 16 (PN 25)
Electrical supply	230/400 VAC

GebFilter side stream filter

Solid substances found in the fluid circulating in a heating and cooling system can cause malfunctions in the system components and thus impair the exchange of heat and shorten the life of the equipment.

The GebFilter side stream filter effectively removes solid dirt found in the fluid, making the system run more reliably and extending its life cycle.

There are two models of GebFilter side stream filters available: GebFilter 10" ja GebFilter 20".

Structure

The side stream filter consists of a filter frame, a filter tank, and a replaceable filter cartridge. The filter frame has a vent coupling on the input/output side.

To ensure efficiency, the filter cartridge of the side stream filter should be replaced at regular intervals. We recommend replacing the cartridge once a month in the first 3–4 months after the installation of the side stream filter. After that, it is advisable to replace the filter cartridge once a year or as needed, depending on the accumulation of sediment. Filter cartridges can be ordered from Gebwell Ltd.

GebVent Air and Dirt Separators

Air and dirt separators remove the air/oxygen and contaminants from the fluid circulating in the heating and cooling system.

GebVent Air - air separator

The GebVent Air air separator automatically removes air from watercirculating heating and cooling systems.

The net inside the separator collects the air and microbubbles together into a larger air bubble that rises to the top of the separator. The air bubble exits the separator via the automatic air vent valve at the top.

There is also a separate air vent at the top of the air separator that removes air from the network while filling it.

GebVent Dirt - dirt separator

The GebVent Dirt dirt separator is used in closed heating and cooling systems.

The use of a dirt separator protects the components of the heating system from damage caused by dirt.

Unlike strainers, the dirt separator removes the dirt from the system while it's running.

GebVent Air Dirt - air and dirt separator

GebVent AirDirt is a combined air and dirt separator, which removers both air and dirt from the system.



Technical specifications

Material, frame	EN1.4301
Filtering rate	50 µm
Maximum flow	0,83 l/s
Maximum operating tempereture	80 °
Maximum operating pressure	6 bar



Technical specifications	GebVent Air - air separator	GebVent Dirt - dirt separator	GebVent Air Dirt air and dirt separator
Pipe sizes	DN50-250	DN50-250	DN50-300
Operating temperature	0-120 °C	0-120 °C	0-120 °C
Pressure class	PN10	PN16	PN10
Strainer material	EN1.4301	EN1.4301	EN1.4301
Frame material	P235GH TC1/TC2	P235GH TC1/TC2	P235GH TC1/TC2
Welding couplings	P235GH TC1/TC2	P235GH TC1/TC2	P235GH TC1/TC2
Flanges	P235TR1	P235TR1	P235TR1

Finnish professional in environmentally friendly heating and cooling of buildings.



PURE HEAT

Gebwell Ltd. reserve the right to changes

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