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.

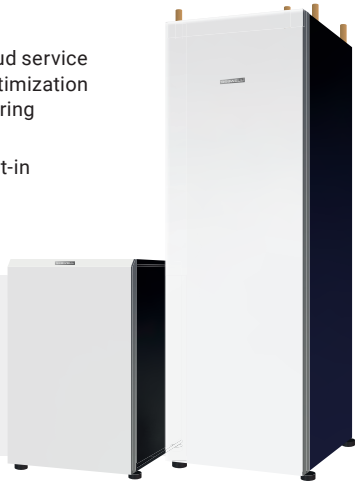
Aries is linked to a cloud service as a standard, which means that the manufacturer can check the system status, if needed. The cloud service also enables the remote monitoring and control of the pump.

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.

- Manufactured in Finland
- Energy efficient
- Advanced automation
- Remote connection to the manufacturer



		Aries 6	Aries 12	Aries 12C
GTIN		6415853626040	6415853626149	6415853626491
Power values (according to EN 14511)				
Heating output (0°/35° and 0°/55°)	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°/35° and 0°/55°)	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°/35° and 0°/55°)	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
Rated heating output (0°/35° and 0°/55°)	kW	3.8 and 3.5	6.7 and 6.2	6.7 and 6.2
Rated electrical power (0°/35° and 0°/55°)	kW	0.8 and 1.11	1.4 and 1.7	1.4 and 1.7
COP (0°/35° and 0°/55°)		4.8 and 3.1	4.8 and 2.9	4.8 and 2.9
SCOP (0°/35° and 0°/55°, according to EN14825)		5.6 and 4.2	5.8 and 4.3	5.8 and 4.3
The system's energy efficiency class, intermediate climate, underfloor heating		A+++	A+++	A+++
Heating circuit rated flow	l/s	0.13	0.23	0.23
Brine		Denatured ethanol 25-30%		
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	kPa	68 (0.19 l/s)	110 (0.34 l/s)	110 (0.34 l/s)
Heating system / Brine circuit maximum operating pressure (consider network pressure)	bar	6 / 6	6 / 6	6 / 6
Domestic water accumulator maximum operating pressure	bar	10	10	10
Heating water maximum output temperature	°C	65	65	65
Operational temperature, collector	°C	-5... +20	-5... +20	-5... +20
Compressor		Twin rotary (frequency-controlled)		
Frequency converter		yes		
Built-in heating pump		yes (frequency converter)		
Built-in source pump		yes (frequency converter)		
Electrical connection through a plug		yes, 400 VAC, 3L+N+PE, 50 Hz		
Contains fluorinated greenhouse gases		yes	yes	yes
Hermetically sealed		yes	yes	yes
Refrigerant		R410A	R410A	R410A
GWP (Global Warming Potential)		2088	2088	2088
Refrigerant charge	kg	0.92	1.42	1.42
CO_2 equivalence	ton CO_2e	1,920	2,965	2,965
Built-in electric immersion heater can be connected	kW	2 / 4 / 6	2 / 4 / 6	2 / 4 / 6
Operating current of the protective device	A	3 x 16	3 x 20	3 x 20
Connections:				
Heating pipe	mm	22	28	28
Collector	mm	28	28	28
Domestic water	mm	22	22	-
Sound power level (L_{WA})	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)	l	185 / 7	185 / 7	no built-in accumulator

* Levelling feet 40 - 60 mm