

# 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. The heat pump power increases or decreases 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.

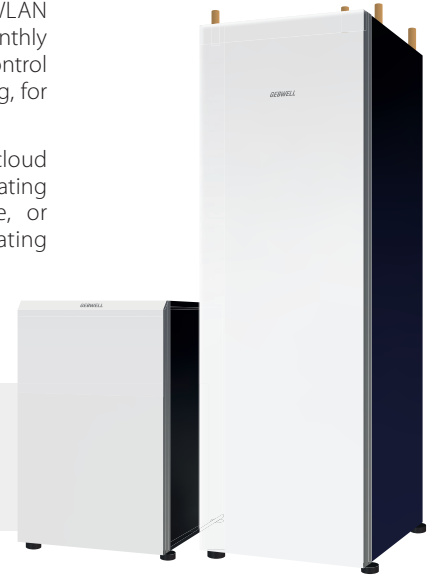
Aries is controlled with a smart device application. The user interface can be used to monitor

and adjust the heat pump through the WLAN established by the heat pump. For a small monthly fee, an application extension for the mobile control of the Aries via a 3/4G network while travelling, for example, is available.

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 factory



		Aries 6	Aries 12	Aries 12C
<b>HVAC number</b>		6415853626040	6415853626149	6415853626491
Power values				
Heating output (according to EN 14511)	kW	1.5-7.5	2.6-12.2	2.6-12.2
Rated heating output (0°/35°)	kW	3.75	6.71	6.71
Rated electrical power (0°/35°)	kW	0.78	1.36	1.36
SCOP (0°/35°   0°/55°, according to EN14825)		5.6   4.2	5.8   4.3	5.8   4.3
The system's energy efficiency class, intermediate climate, underfloor heating		<b>A+++</b>	<b>A+++</b>	<b>A+++</b>
Brine		Denatured ethanol 25-30%		
Brine rated flow	l/s	0.19	0.34	0.34
Maximum allowed external pressure loss at the brine circuit rated flow	kPa	68	110	110
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... +30	-5... +30	-5... +30
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, 50 Hz, 3-phase		
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 <sub>2</sub> equivalence	ton CO <sub>2</sub> 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)	A	3x16	3x20	3x20
<b>Connections:</b>				
Heating pipe	mm	22	28	28
Collector	mm	28	28	28
Domestic water	mm	22	22	-
Sound power level (L <sub>WA</sub> )	dB	34-43	36-47	36-47
Sound pressure level (L <sub>WP</sub> )	dBA	20-27	22-30	22-30
<b>Dimensions</b>				
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