

# Gebwell Aries ground source heat pump

## – a Finnish inverter ground source heat pump

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 an-easy-to-use 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 ground source heat pump like other Gebwell heat pumps is designed and manufactured in Finland.

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



		Aries6	Aries12
<b>HVAC number</b>		6415853626040	6415853626149
Heating output	kW	1.5-7.5	2.6-12.8
Cooling capacity (0°/35°)	kW	2.97	5.35
Input power (0°/35°)	kW	0.78	1.36
SCOP (0°/35°)		5.6	5.8
- Power values stated for the temperatures 0°/35° SFS-EN 14511			
The system's energy efficiency class, intermediate climate, underfloor heating		<b>A+++</b>	<b>A+++</b>
Brine		Denatured ethanol 25-30%	Denatured ethanol 25-30%
Brine nominal flow	l/s	0.25	0.42
Maximum allowed external pressure loss at the brine circuit nominal flow	kPa	65	65
Heating system / Brine circuit maximum operating pressure (consider network pressure)	bar	6 / 6	6 / 6
Domestic water accumulator maximum operating pressure	bar	10	10
Heating water maximum output temperature	°C	65	65
Operational temperature, collector	°C	-5... +30	-5... +30
Compressor		Twin rotary (frequency-controlled)	Twin rotary (frequency-controlled)
Frequency converter		yes	yes
Built-in heating pump		yes (frequency converter)	yes (frequency converter)
Built-in source pump		yes (frequency converter)	yes (frequency converter)
Electrical connection through a plug		yes, 400 VAC, 50 Hz, 3-phase	yes, 400 VAC, 50 Hz, 3-phase
Contains fluorinated greenhouse gases		yes	yes
Hermetically sealed		yes	yes
Refrigerant		R410A	R410A
GWP (Global Warming Potential)		2088	2088
Refrigerant amount	kg	0.82	1.4
CO <sub>2</sub> equivalence	ton CO <sub>2</sub> e	1.712	2.923
Built-in electric heater can be connected	kW	1.7 / 3.5 / 5.2	3 / 6 / 9
Recommended fuse size (with heater)	A	3x16	3x20
<b>Connections:</b>			
Heating pipe	mm	22	28
Collector	mm	28	28
Domestic water	mm	22	22
Sound power level (L <sub>WA</sub> )	dB	34-43	36-47
Sound pressure level (L <sub>WP</sub> )	dB(A)	20-27	23-31
<b>Dimensions:</b>			
External dimensions (depth x width x height)	mm	660 x 600 x 1800	660 x 600 x 1800
Weight	kg	220	235
Hot water accumulator (domestic water/heating)	l	185 / 7	185 / 7