

**GAIA Aria
31
Single-Phase**

Direct connection to thermal solar panels

Heat pump DC inverter - R410A

Domestic hot water 200 litres tank

Preassembled thermal plant



GAIA Aria 31

GAIA is the high efficiency aircooled heat pump that contains all system components, including 200 litres water tank, suitable for the direct connection to the thermal solar panels.

Due to its high efficiency, Gaia may be eligible for heat pump subsidies in your country. Please contact your tax office and utility.



GAIA Aria - MSER-XEE 31

Heat pump "air-water"



PATENT PENDING

GAIA
Is available also size
31 in the air and water
version (stratum or
ground)

THE COMPLETE SYSTEM IN ONE UNIT FOR RENEWABLE ENERGY COMFORT:

It includes in one unit all system elements.

INTEGRATED SOLAR ENERGY RECOVERY SYSTEM FROM THERMAL COLLECTORS:

It produces free domestic hot water thanks to the energy obtained by the solar panel use.

INTEGRATED DOMESTIC HOT WATER PRODUCTION:

It includes in the unit a 200 litres tank.

SYSTEM WITH THE HIGHEST SEASONAL EFFICIENCY PRESENT ON THE MARKET:

It applies the DC inverter technology to compressor, fan, system circulator and sanitary recirculation circulator.

WATER PRODUCTION UP TO 60°C.

OPERATION WITH EXTERNAL AIR DOWN TO -22°C.



Eurovent Energy Efficiency Class



Refrig. R-410A



Internal Inst.



Harm Scroll



ELFOControl



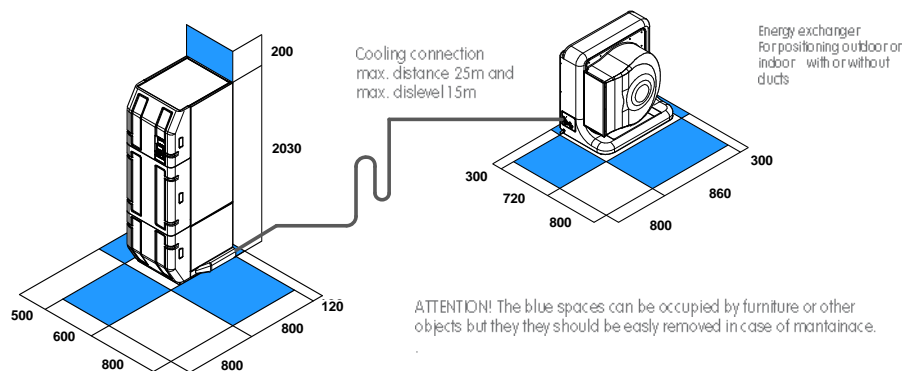
Full inverter DC

Technical Data

| Size | 31 | | Performances with RADIANT PANELS (A) | Performances with TERMINAL UNITS (B) | Performances with RADIATORS (C) |
|--|-----|-------------|--------------------------------------|--------------------------------------|---------------------------------|
| HC/ PI/ COP @A+7°C | (1) | kW / kW / - | 7,28 / 1,58 / 4,59 | 6,79 / 1,93 / 3,51 | 6,30 / 2,31 / 2,72 |
| HC/ PI/ COP @A+2°C | (2) | kW / kW / - | 6,22 / 1,59 / 3,91 | 5,80 / 1,94 / 2,99 | 5,38 / 2,32 / 2,32 |
| HC/ PI/ COP @A-5°C | (3) | kW / kW / - | 7,15 / 2,20 / 3,20 | 6,76 / 2,64 / 2,54 | 6,21 / 2,98 / 2,07 |
| CC/ PI/ EER @A+35°C | (4) | kW / kW / - | 8,17 / 2,10 / 3,86 | 5,83 / 1,91 / 3,05 | - |
| ESEER Eurovent | (5) | - | 7,94 | 5,44 | - |
| Pump available head | (6) | kPa | 57 | 58 | 58 |
| Fan Max. static pression | | Pa | | 90 | |
| Oper. Limits—Min T. ext air. / Max T. water (heating) | | °C | | -22 / 60 | |
| Oper. Limits—Min T. water / Max T. ext. air. (cooling) | | °C | | 5 / 53 | |
| Sound pressure level at 10mt unit internal/external | | dB(A) | | 39 / 37,7 | |
| Integrated tank capacity | | l | | 200 | |
| Solar exchanger capacity | | W/K | | 3186 | |
| Power supply | | V/Ph/Hz | | 230/1/50 | |

Data referred to the following conditions:

- (1) (A) Heating capacity/Power input/ COP Air inlet 7°C D.B., 6°C W.B. Water inlet 30°C and outlet 35°C. Data compliant with standard Eurovent. Performances to compressor nominal speed according to EN14511.
 (1) (B) Heating capacity/Power input/ COP Air inlet 7°C D.B., 6°C W.B. Water inlet 40°C and outlet 45°C. Performances to compressor nominal speed according to EN14511.
 (1) (C) Heating capacity/Power input/ COP Air inlet 7°C D.B., 6°C W.B. Water inlet 50°C and outlet 55°C. Performances to compressor nominal speed according to EN14511.
 (2) (A) Heating capacity/Power input/ COP Air inlet 2°C D.B., 1°C W.B. Water inlet 30°C and outlet 35°C. Performances to compressor nominal speed according to EN14511.
 (2) (B) Heating capacity/Power input/ COP Air inlet 2°C D.B., 1°C W.B. Water inlet 40°C and outlet 45°C. Performances to compressor nominal speed according to EN14511.
 (2) (C) Heating capacity/Power input/ COP Air inlet 2°C D.B., 1°C W.B. Water inlet 50°C and outlet 55°C. Performances to compressor nominal speed according to EN14511.
 (3) (A) Heating capacity/Power input/ COP Air inlet -5°C D.B., -5,4°C W.B. Water inlet 30°C and outlet 35°C. Performances to max compressor speed according to EN14511.
 (3) (B) Heating capacity/Power input/ COP Air inlet -5°C D.B., -5,4°C W.B. Water inlet 40°C and outlet 45°C. Performances to max compressor speed according to EN14511.
 (3) (C) Heating capacity/Power input/ COP Air inlet -5°C D.B., -5,4°C W.B. Water inlet 50°C and outlet 55°C. Performances to max compressor speed according to EN14511.
 (4) (A) Cooling capacity/Power Input/EER Air inlet 35°C. Water inlet 23°C and outlet 18°C. Performances to compressor nominal speed according to EN14511.
 (4) (B) Cooling capacity/Power Input/EER Air inlet 35°C. Water inlet 12°C and outlet 7°C. Performances to compressor nominal speed according to EN14511.
 Performances according to Eurovent consider the power input as the sum of the power input from compressor +fan+auxiliary circuit+defrost in heating.
 (Performances according to EN14511) consider the power input as the sum of the power input from compressor +fan +auxiliary circuit+defrost of the pump, to face the internal pressure load + possible defrost in heating
 (5) ESEER calculated according to Eurovent, for produced water up to 18°C consider the partial load conditions defined by Eurovent for produced water up to 7°C.
 (6) Available head referred to the heating mode.



| Sizes GAIA Aria | 31 |
|-----------------|---------|
| Lenght | mm 600 |
| Width | mm 800 |
| Height | mm 2030 |
| Weight in oper. | kg 460 |

| Sizes Energy Exchanger | 31 |
|------------------------|--------|
| Lenght | mm 860 |
| Width | mm 720 |
| Height | mm 845 |
| Weight in oper. | kg 80 |

Data are referred to standard units.

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