BAXI

Air to Water Heat Pumps

HYDROHEAT SUPPLIES

BAXI

Auriga Air to Water Heat Pumps

The best in European Air to Water heat pump technology up to 65ºC for maximum efficiency.

Model 10A / 16A

The BAXI Auriga range of air-to-water monobloc heat pumps provide a sustainable and environmentally friendly home heating solution. Ideal for floor heating systems and integration to renewable solar power.

Efficient warmth

- Rated A+++ at 35°C, A++ at 55°C (ERP EU2017/1369)
- Eco Friendly R32 refrigerant
- Ideal for integration with solar PV systems
- Easy to install compact Monobloc system

Adaptable and flexible

- 10kW and 16kW models to suit required output
- Heating and DHW supply up to 65ºC
- Ideal for floor heating systems and correctly sized radiator heating systems
- High pressure pump maintains water pressure even in large installations

Remote control

- Control system functions, parameter programming and checks. Integration to BMS systems via Modbus protocol

Air to Water Electric Heat Pumps

BAXI's air to water Auriga heat pumps address the importance of electrified low carbon technology and the need to satisfy renewable fuel heating requirements. Equipped with an invertor modulating compressor using eco safe R32 refrigerant, Auriga can deliver hot water up to 65ºC for residential heating.

The BAXI Auriga Air to Water Heat Pump (AWHP) system is an alternative to a traditional gas, oil or solid fuel system. An AWHP reduces carbon emissions and energy usage as it absorbs natural energy from external air to create heat. It consumes less energy than conventional heating systems due to the fact that an air to water heat pump transfers heat to the water, rather than creating it by burning fossil fuel like regular combustion heating systems do. As the heat pump is electric powered it can be connected to renewable energy such as solar to completely eliminate fossil fuel use.

BAXI Auriga heatpumps can also provide integrated domestic hot water (DHW) to 65ºC by adding a separate calorifier tank to further improve DHW efficiency.

Heat Pump Efficiency

Heat pumps operate at a lower overall heat output capacity than gas-powered boiler systems. This makes them more efficient for use in heating applications with lower ambient temperature requirements. Systems such as floor heating operate at a median temperature of around 35º -55ºC and hence are ideally suited for heat pump integration. Also, as the new Auriga A series has the ability to heat water up to 65ºC they can support radiator heating in well insulated houses due to improved thermal efficiency providing greater heat retention.

For households that aren't connected to mains gas, heat pumps are also an excellent solution, as heat pumps rely on electricity to power their functions. Given that electricity can be connected to a renewable power source such as solar or wind power this means heat pumps are a future focused choice as virtually no emissions are produced when the pump is connected to a renewable power source.

If you are looking for an environmentally friendly sustainable heating solution that can avoid the use of fossil fuels, then BAXI Auriga air-to-water heat pumps are an ideal choice.

Easy to Install Monobloc System

The terms 'split' and 'monobloc' refer to how a Heat Pump system is set up in the home. BAXI Aurgia Monobloc air-to-water heat pumps are literally a 'single block' (monobloc) system, where the heat pump has all of its components integrated into the one heat pump unit, which is installed externally next to the home.

Split heat pumps utilise a two component split system with an outside unit incorporating the heat exchanger and an internal cassette unit which sits inside the house. The simplicity of the Auriga Monobloc system makes it easier to install and does not require additional licensed contractors on site for gas refrigerant connections.

In addition the extremely compact external dimensions of the BAXI Auriga A series allows for installation to small and difficult access areas.

Model 10A (10kW) / 16A (16kW)

Auriga 16A Internal

Integrated Components

Expansion Vessel (10A/16A - 8L)

Circulating Pump with Enhanced Head Pressure

Plate Heat Exchanger

Temperature Probe (For DHW cylinder / other)

Flow Switch

Y Valve Filter

Safety Valve (3bar)

Outdoor temperature sensor

Auriga 10A (10kW) & 16A (16kW)

The BAXI Auriga air-to-water monobloc heat pump is available in 10kW and 16kW models. Both feature compact, simple single unit installation and high static pressure water pumps maintaining head pressure at higher than 50kPa, allowing installation in large residential applications covering greater distances with no drop in pressure.

Efficiency
A+++35°C / A++ at 55°C
As per EU2017/1369

Control
Remote control panel,
Modbus capable

Residential
Floor heating systems
Correctly sized Radiators

Warranty
2 Yr Pump & Parts
5 Yr Heat Exchanger

BAXI Auriga 10A & 16A Features

- Heating & DHW production up to 65°C
- A+++ energy efficiency at 35°C as per ErP EU2017/1369
- Seasonal performances in heating COP up to 4,95 water at 35°C
- Integration with floor coil heating and radiator systems
- Plug in to renewable solar power source
- Production of domestic hot water (DHW) up to 65°C, Storage (calorifier) tank integration, optional 3 way valve kit
- High pressure 50 kPa circulation pump
- R32 environmentally friendly refrigerant with low GWP in line with BAXI's commitment to decarbonization

- Advanced PCB Functions; hybrid logic for hydraulic back-up, electrical back-up for domestic hot water (DWH) cylinder, complete system management
- Smart defrost with continuous monitoring of room temperature, refrigerant temperature and water temperature
- DC Invertor twin rotary compressor
- Single Phase 230V Power Supply (3 Phase avail for 16A)
- Building Management System, Modbus protocol capable
- Compact size, Cascade Install up to six units
- Electronic management of 8 different climatic curves for maximised performance
- Near silent operation

Accessories

Anti-Vibration Feet

3 Way Valve Kit for DHW/Heating

Advanced remote control panel

Holiday mode, Defrost & DHW control, Eco Mode and silent modes. Manage, set and check all system parameters.

ENERG ErP Energy Labelling

BAXI Auriga heat pumps acheive A+++ / A++ ratings according to strict ErP EU energy labelling regulation **EU 2017/1369**

10A /16A A+++ at 35°C

10A /16A A++ at 55°C

R32

Ecological refrigerant with low GWP

BAXI Auriga Specification

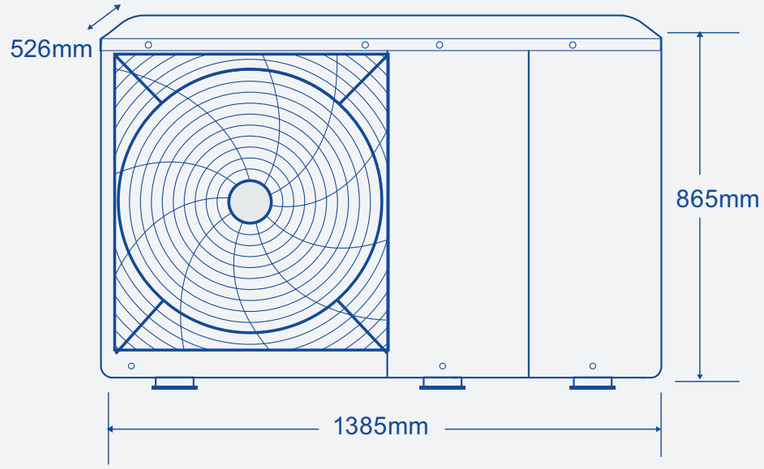
		Auriga 10A	Auriga 16A
Type (indoor/outdoor)		OD	OD
Energy efficiency		A+++ @35°C (1) A++ @55°C (2)	A+++ @35°C (1) A++ @55°C (2)
Low temperature heating systems: Floor heating systems (3)			
Nominal heating capacity water 35°	**kW**	10	15.9
Electrical Consumption	**kW**	2.02	3.53
COP		4,95	4,50
Medium temperature heating systems: Fan coils (4)			
Nominal heating capacity water 45°	**kW**	10	16
Electrical Consumption	**kW**	2.67	4.57
COP		3,75	3,50
High temperature heating systems: Radiators (5)			
Nominal heating capacity water 55°	**kW**	9.5	16
Electrical Consumption	**kW**	3.06	5.61
COP		3,10	2,85
Maximum water heating			
Maximum water delivery temp (WTOL)		65°C	65°C
Refrigerant system			
Gas		R32	R32
Gas volume	**kg**	1,4	1,75
Hydronic circuit			
Minimum plant water content	**l**	25	40
Expansion vessel	**l**	8	8
Safety valve	**Bar**	3	3
Water connections		1" 1/4	1" 1/4
Metal mesh water filter		1" 1/4	1" 1/4
Electrical data			
Power supply V/Ph/Hz		230/1/50	230/1/50
Sound data			
Sound power*		60	68
Sound pressure**		50,5	57,5
Weight			
Net weight	**kg**	121	144
Gross weight	**kg**	123	147
Net weight in standard configuration, packaging excluded			
Heating operative limits			
External air T min/max		-25°C/+35°C	-25°C/+35°C
Water delivered T min/max		+12°C/+65°C	+12°C/+65°C
Min/Max water ΔT: 5/10°C – Min/Max Hydraulic circuit pressure: 1/3 bar – Max Glycole blend: 40%			
Cooling operative limits			
External air T min/max		-5°C/+43°C	-5°C/+43°C
Water delivered T min/max		+5°C/+25°C	+5°C/+25°C
Min/Max water ΔT: 5/10°C – Min/Max Hydraulic circuit pressure: 1/3 bar – Max Glycole blend: 40%			

(1) Heating operation energy class: low temperature, average climatic conditions (EU No 811/2013)
(2) Heating operation energy class: medium temperature, average climatic conditions (EU No 811/2013)
(3) Ambient air temperature 7°C, 87% RH, Water temperature 35°C (EN 14511)
(4) Ambient air temperature 7°C, 87% RH, Water temperature 45°C (EN 14511)
(5) Ambient air temperature 7°C, 87% RH, Water temperature 55°C (EN 14511)

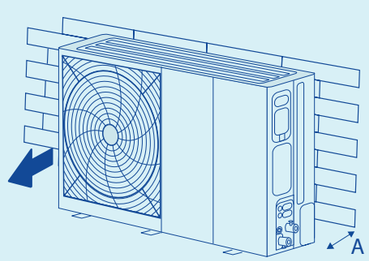
* Maximum value obtained at full load under nominal dB(A)
**Average sound pressure at distance of 1 meter, in free field on a reflection dB(A)

SCOP and SEER and Cooling Data available upon request

10A / 16A External Dimensions

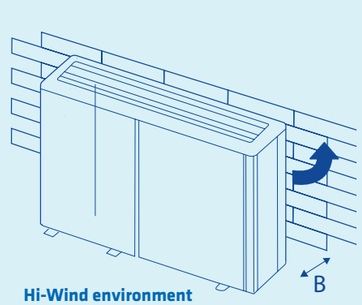


Installation Requirements



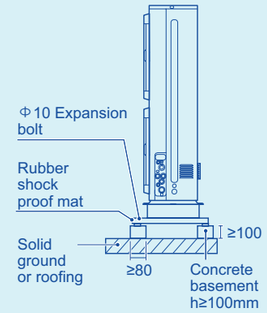
Normal install
(Air outlet facing out)

Model	A
10A / 16A	≥300mm

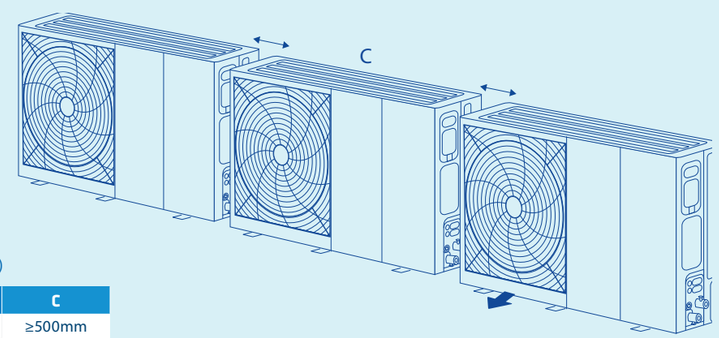


Hi-Wind environment
(Air outlet facing in)

Model	B
10A / 16A	≥1500mm



Foundation Requirements
(On level, firm substrate)



Cascade install
(Air outlet facing out)

Model	C
10A / 16A	≥500mm

HYDROHEAT SUPPLIES
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BAXI
BAXI Auriga Heat Pumps 10A & 16A
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Specification is subject to change and correct at time of printing

HYDROHEAT SUPPLIES

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Available from

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