

Air-source monobloc heat pumps for heating and cooling

Auriga and Auriga Compact NEW









Air-source monobloc heat pumps for heating and cooling



Auriga and Auriga Compact are air-source monobloc heat pumps for heating and cooling, operating with eco-friendly R32 refrigerant fluid.

The two ranges are **easy to install and highly reliable**. In fact, they integrate all the components, including compressor, evaporator, condenser, and refrigerant circuit, into a single outdoor unit, simplifying installation and maintenance.

The Auriga range consists of 8 models from 4 to 16 kW (12 and 16 kW also with three-phase power supply). The high head of the pump allows the installation in large systems, covering greater distances or installing the unit directly to serve fan coils.



Auriga		4M-A	6М-А	8M-A	10M-A	12M-A	16M-A	12T-A	16T-A
Seasonal energy efficiency	(1)	IIII' A***	IIII' A***	IIII' A***	A***	IIII' A***	IIII' A***	IIII A***	IIII A ****
	(2)	IIII) A++	(III) A++	(III) A++		IIII) A++	IIII) A++	IIII A++	IIII) A++
Nominal heating capacity kW	(3)	4,20	6,35	8,40	10,00	12,10	15,90	12,10	15,90
COP	(3)	5,10	4,95	5,15	4,95	4,95	4,50	4,95	4,50
Nominal cooling output kW	(4)	4,50	6,50	8,30	9,90	12,00	14,20	12,00	14,20
EER	(4)	5,50	4,80	5,05	4,55	3,95	3,61	3,95	3,61

⁽¹⁾ Heating operation energy class: low temperature, average climatic conditions (UE N° 811/2013)

⁽²⁾ Heating operation energy class: medium temperature, average climatic conditions (UE N° 811/2013)

⁽³⁾ Outdoor air temperature 7°C - 87% U.R., water temperature 30/35°C - EN 14511

⁽⁴⁾ Outdoor air temperature 35°C, water temperature 18°C - EN 14511

The Auriga Compact range is made of 3 models from 6 to 10 kW (single-phase power supply). It has been specifically designed for installation in narrow spaces such as balconies.



Auriga Compact NEW		6M	8M	10M
Seasonal energy efficiency	(1)	IIII' A***	A***	A***
	(2)	IIII' A**	(A ⁺⁺	A ⁺⁺
Nominal heating capacity kW	(3)	6,50	8,40	10,00
COP	(3)	5,30	5,05	4,70
Nominal cooling output kW	(4)	6,50	8,30	10,00
EER	(4)	5,10	4,85	4,30

⁽¹⁾ Heating operation energy class: low temperature, average climatic conditions (UE N° 811/2013)

⁽²⁾ Heating operation energy class: medium temperature, average climatic conditions (UE N° 811/2013)
(3) Outdoor air temperature 7°C - 87% U.R., water temperature 30/35°C - EN 14511
(4) Outdoor air temperature 35°C, water temperature 18°C - EN 14511



Features - Auriga and Auriga Compact



Complete hydraulic equipment:

consisting of expansion vessel (8 liter in the Auriga range and 5 liter in the Auriga Compact heat pumps), high-head pump, flowmeter, 3-bar safety valve, pressure gauge and Y filter, is **pre-assembled to save time during installation**.

Remote-control panel:

it allows an easy management of all the functions and can be integrated in Building Management System via Modbus. The remote-control panel is supplied as standard with Auriga Compact range.





Operating limit:

the extended operating range allows heating operating temperature up to 65 °C.

ErP Energy Labelling:

all **Auriga and Auriga Compact** heat pumps are labelled **class A+++** in low temperature heating, according to UE Regulation 2017/1369.



Auriga

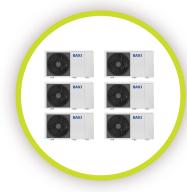


Very low noise units:

Auriga heat pumps are as loud as a normal conversation (sound pressure 50 dB(A) max. for 4-10 kW models). This makes this range **suitable for all installation, even in high-density residential areas**.

Cascade installation:

Auriga heat pumps can be installed in cascade (up to 6 units).





The wide range from 4 to 16 kW:

it answers to all heating, cooling and DHW production (with an indirect tank) needs. The range is made of: 4, 6, 8, 10, 12 and 16 kW.

Auriga Compact



Compact dimensions:

the very compact dimensions (hxlxw 865x1040x410 mm) of **Auriga Compact** allow an **easy installation in narrow spaces such as balconies**.

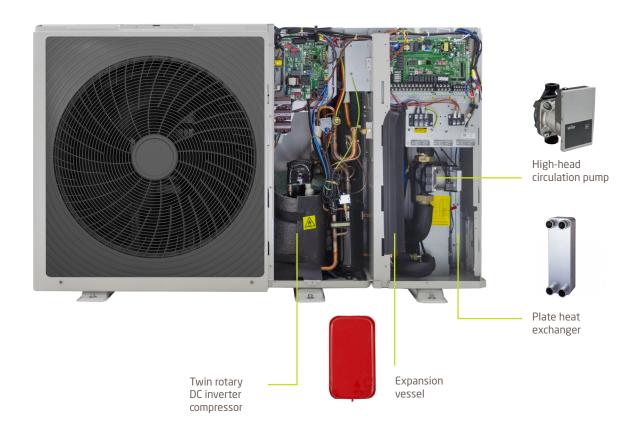
High temperature hybrid system:

the remote control panel, supplied as standard, permits to **integrate a Baxi boiler obtaining a full hybrid system**, taking advantages from both the instantaneous comfort granted by gas application, and the eco-friendly low consumption electric option for heating and cooling.





Components - Auriga



Twin rotary DC inverter compressor: with internal thermal protection and crankcase resistance, it is mounted on anti-vibration dumpers and wrapped on an insulating hood to reduce the transmission of noise and vibrations. **Water-refrigerant exchanger**: brazed AISI 316 steel plate heat exchanger with polypropylene insulation to prevent condensing and anti-freeze resistance to avoid the ice formation in the exchanger.

Air-refrigerant exchanger: aluminum finned coil with hydrophilic treatment to facilitate the outflow of condensate, mechanically expanded copper pipes with internal shaping to increase the heat exchange. The optimized circuitry allows to reduce the ice formation in the coil.

Fan: axial fan directly coupled to the high efficiency brushless DC variable speed motor. The fan is installed on aerodynamic nozzles and safety grilles.

Refrigerant circuit: made of pickled copper, it includes the electronic expansion valve, dehydrator filter, high and low pressure switches, pressure transducer, reversing valves, liquid collector and separator, suction refrigerant injection valve.

Hydraulic circuit: in addition to the brazed plate heat exchanger, the unit includes high-head circulation pump, expansion vessel, safety valve, flow switch, pressure gauge, air vent valve and Y filter (must be assembled by the installer).

Electrical panel: with fuse protection; the terminal block is divided into a power supply section and a control terminal block to connect auxiliary inputs/outputs and the control panel.





Auriga



- maximum energy efficiency
- full control of the DHW production: tank temperature control, DHW circulating pump and solar system integration
- for all kinds of low/middle temperature systems, independently from the delivery device: fan coils, floor heating applications or low temperature high efficiency radiators
- intelligent defrosting thanks to the monitoring of room temperature, refrigerant temperature, water temperature and operating mode
- wide operation ratio DC inverter compressor, low GWP refrigerant (R32)
- Modbus integration





Standard functions

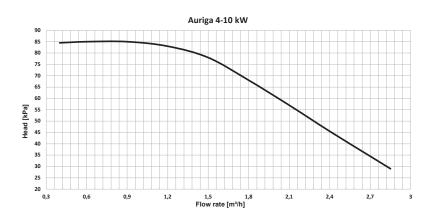
Control panel **(compulsory installation)** to manage different system configuration directly from the unit:

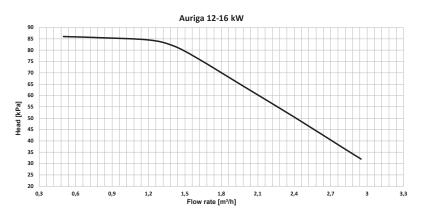
- Heating and cooling management with 16 climatic curves per mode;
- DHW tank management, solar integration, boiler integration and DHW recirculating pump management;
- boiler and electrical back-up management;
- heating/cooling cascade management (up to 6 units);
- anti-legionella function;
- eco mode with 2 setpoints;
- silent mode con 2 sound levels;
- holiday mode: anti frost and DHW management with dedicated setpoints and anti-legionella treatment at the end of the period.

Optional functions

Electrical resistance kit

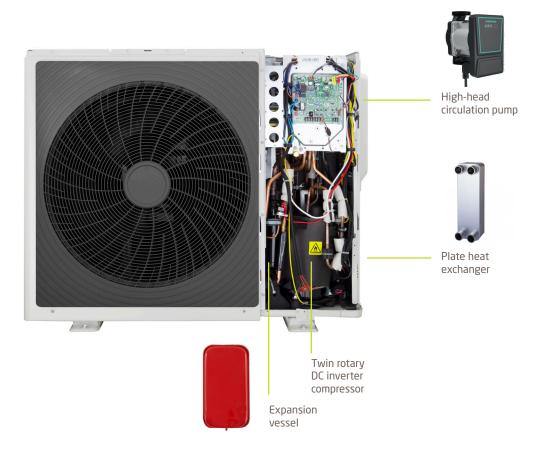
Flow rate/head curve







Components - Auriga Compact



Twin rotary DC inverter compressor: with internal thermal protection and crankcase resistance, it is mounted on anti-vibration dumpers and wrapped on an insulating hood to reduce the transmission of noise and vibrations. **Water-refrigerant exchanger**: brazed AISI 316 steel plate heat exchanger with polypropylene insulation to prevent condensing and anti-freeze resistance to avoid the ice formation in the exchanger.

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Electrical panel: with fuse protection; the terminal block is divided into a power supply section and a control terminal block to connect auxiliary inputs/outputs and the control panel.







Auriga Compact NEW

- maximum energy efficiency
- full control of the DHW production: tank temperature control, DHW circulating pump and solar system integration
- for all kinds of low/middle temperature systems, independently from the delivery device: fan coils, floor heating applications or low temperature high efficiency radiators
- for narrow spaces thanks to the compact dimensions (length = 1 m)
- · control panel supplied as standard
- wide operation ratio DC inverter compressor, low GWP refrigerant (R32)
- Modbus integration



Standard functions

Control panel **(supplied as standard)** to manage different system configuration directly from the unit:

- Heating and cooling management with 16 climatic curves per mode;
- DHW tank management, solar integration, boiler integration and DHW recirculating pump management;
- boiler and electrical back-up management;
- heating/cooling cascade management (up to 6 units);
- anti-legionella function;
- eco mode with 2 setpoints;
- silent mode con 2 sound levels;
- holiday mode: anti frost and DHW management with dedicated setpoints and anti-legionella treatment at the end of the period.

Flow rate/head curve





Technical data - Auriga

Auriga		4M-A	6M-A	8M-A	10M-A	12M-A	16M-A	12T-A	16T-A
Heating - LOW TEMPERATURE									
Rated heat output Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	kW	4,20	6,35	8,40	10,00	12,10	15,90	12,10	15,90
Absorbed electrical power Outdoor air temperature 7°C - 87 % R.H., water temperature 30/35°C - EN 14511	kW	0,82	1,28	1,63	2,02	2,44	3,53	2,44	3,53
COP Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511		5,10	4,95	5,15	4,95	4,95	4,50	4,95	4,50
Rated heat output Outdoor air temperature -7°C - 87% R.H., water temperature 35°C - EN 14511	kW	4,70	6,00	7,00	8,00	10,00	13,10	10,00	13,10
Absorbed electrical power Outdoor air temperature -7°C – 87% R.H., water temperature 35°C - EN 14511	kW	1,52	2,00	2,19	2,62	3,33	4,85	3,33	4,85
COP Outdoor air temperature -7°C - 87% R.H., water temperature 35°C - EN 14511		3,10	3,00	3,20	3,05	3,00	2,70	3,00	2,70
Heating - MEDIUM TEMPERATURE									
Rated heat output Outdoor air temperature 7°C - 87 % R.H., water temperature 45°C - EN 14511	kW	4,30	6,30	8,10	10,00	12,30	16,00	12,30	16,00
Absorbed electrical power Outdoor air temperature 7°C - 87 % R.H., water temperature 45°C - EN 14511	kW	1,13	1,70	2,10	2,67	3,32	4,57	3,32	4,57
COP Outdoor air temperature 7°C - 87 % R.H., water temperature 45°C - EN 14511		3,80	3,70	3,85	3,75	3,70	3,50	3,70	3,50
Rated heat output Outdoor air temperature 7°C - 87 % R.H., water temperature 55°C - EN 14511	kW	4,40	6,00	7,50	9,50	11,90	16,00	11,90	16,00
Absorbed electrical power Outdoor air temperature 7°C - 87 % R.H., water temperature 55°C - EN 14511	kW	1,49	2,03	2,36	3,06	3,90	5,61	3,90	5,61
COP Outdoor air temperature 7°C - 87 % R.H., water temperature 55°C - EN 14511		2,95	2,95	3,18	3,10	3,05	2,85	3,05	2,85
Cooling									
Nominal cooling capacity Outdoor air temperature 35°C, water temperature 18°C - EN 14511	kW	4,50	6,50	8,30	9,90	12,00	14,20	12,00	14,20
Absorbed electrical power Outdoor air temperature 35°C, water temperature 18°C - EN 14511	kW	0,82	1,35	1,64	2,18	3,04	3,93	3,04	3,93
EER Outdoor air temperature 35°C, water temperature 18°C - EN 14511		5,50	4,80	5,05	4,55	3,95	3,61	3,95	3,61
Nominal cooling capacity Outdoor air temperature 35°C, water temperature 7°C° - EN 14511	kW	4,70	7,00	7,45	8,20	11,50	14,00	11,50	14,00
Absorbed electrical power Outdoor air temperature 35°C, water temperature 7°C° - EN 14511	kW	1,36	2,33	2,22	2,52	4,18	5,60	4,18	5,60
EER Outdoor air temperature 35°C, water temperature 7°C° - EN 14511		3,45	3,00	3,35	3,25	2,75	2,50	2,75	2,50
ErP data									
SCOP	(1) (2)	4,85 3,33	4,95 3,53	5,23 3,38	5,20 3,50	4,80 3,45	4,63 3,40	4,80 3,45	4,63 3,40
Seasonal energy efficiency ηs	% (1) % (2)	191 130	195 138	206 132	205 137	189 135	182 133	189 135	182 133
SEER	(3) (4)	7,77 4,99	8,21 5,34	8,95 5,83	8,78 5,98	7,10 4,89	6,75 4,69	7,04 4,86	6,71 4,67

Auriga		4M-A	6M-A	8M-A	10M-A	12M-A	16M-A	12T-A	16T-A
Refrigerant circuit									
Refrigerant gas					R32				
Refrigerant load	kg	1,40	1,40	1,40	1,40	1,75	1,75	1,75	1,75
Hydraulic circuit									
Heat exchanger water flow Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	m³/h	0,73	1,10	1,45	1,73	2,09	2,75	2,09	2,75
Pump head Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	kPa	85	83	78	70	60	40	60	40
Minimum water content	I	25	25	25	25	40	40	40	40
System expansion vessel	I	8	8	8	8	8	8	8	8
Safety valve	bar	3	3	3	3	3	3	3	3
Hydraulic connections		1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Water filter		1"	1"	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Electrical data									
Power supply	V/Ph/ Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50
Sound data									
Sound power According to EN 12102: water temperature 55°C and outdoor air temperature 7°C	dB(A)	55	58	59	60	65	68	65	68
Sound pressure Average sound pressure, at 1 meter distance,in a free field on a reflective surface	dB(A)	45,0	47,5	48,5	50,5	53,0	57,5	53,5	58,0
Weight									
Empty weight Standard configuration, packaging excluded	kg	98	98	121	121	144	144	160	160
Operating limits in heating mode									
Outdoor air temperature min/max °C					-25°C/	+35°C			
Water temperature min/max °C					+12°C/	+65°C			
Operating limits in cooling mode									
Outdoor air temperature min/max °C					-5°C/+	-43°C			
Water temperature min/max ℃					+5°C/-	+25°C			

⁽¹⁾ Seasonal energy efficiency class of room heating at LOW TEMPERATURE in AVERAGE climate conditions (EU regulation N° 811/2013) (2) Seasonal energy efficiency class of room heating at MEDIUM TEMPERATURE in AVERAGE climate conditions (EU regulation N° 811/2013) (3) Room cooling seasonal energy efficiency for fan coil applications (23/18°C) - (EN 14825) (4) Room cooling Seasonal energy efficiency for fan coil applications (12/7°C) - (EN 14825)



Technical data - Auriga Compact

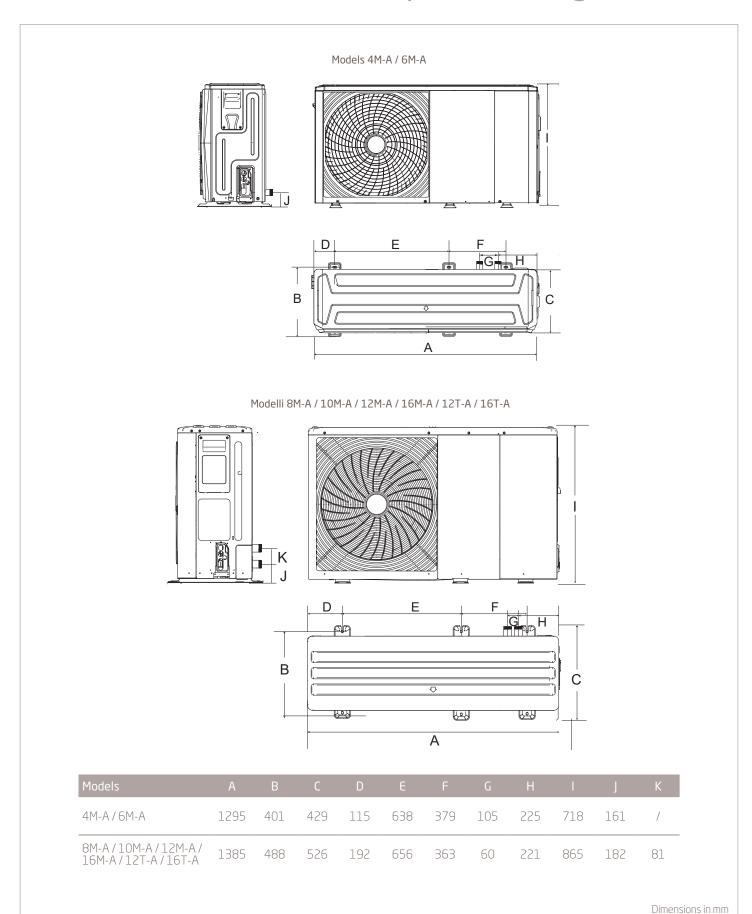
Auriga Compact		6M	8M	10M
Heating - LOW TEMPERATURE				
Rated heat output Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	kW	6,50	8,40	10,00
Absorbed electrical power Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	kW	1,23	1,66	2,13
COP Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511		5,30	5,05	4,70
Rated heat output Outdoor air temperature -7°C – 87% R.H., water temperature 35°C - EN 14511	kW	6,20	7,10	8,00
Absorbed electrical power Outdoor air temperature -7°C - 87% R.H., water temperature 35°C - EN 14511	kW	1,94	2,25	2,67
COP Outdoor air temperature -7°C - 87% R.H., water temperature 35°C - EN 14511		3,20	3,15	3,00
Heating - MEDIUM TEMPERATURE				
Rated heat output Outdoor air temperature 7°C – 87 % R.H., water temperature 45°C - EN 14511	kW	6,60	8,50	10,20
Absorbed electrical power Outdoor air temperature 7°C – 87 % R.H., water temperature 45°C - EN 14511	kW	1,65	2,24	2,79
COP Outdoor air temperature 7°C – 87 % R.H., water temperature 45°C - EN 14511		4,00	3,80	3,65
Rated heat output Outdoor air temperature 7°C – 87 % R.H., water temperature 55°C - EN 14511	kW	6,30	8,20	9,40
Absorbed electrical power Outdoor air temperature 7°C – 87 % R.H., water temperature 55°C - EN 14511	kW	1,97	2,60	3,03
COP Outdoor air temperature 7°C – 87 % R.H., water temperature 55°C - EN 14511		3,20	3,15	3,10
Cooling				
Nominal cooling capacity Outdoor air temperature 35°C, water temperature 18°C - EN 14511	kW	6,50	8,30	10,00
Absorbed electrical power Outdoor air temperature 35°C, water temperature 18°C - EN 14511	kW	1,27	1,71	2,33
EER Outdoor air temperature 35°C, water temperature 18°C - EN 14511		5,10	4,85	4,30
Nominal cooling capacity Outdoor air temperature 35°C, water temperature 7°C° - EN 14511	kW	5,50	7,40	9,00
Absorbed electrical power Outdoor air temperature 35°C, water temperature 7°C° - EN 14511	kW	1,69	2,35	3,10
EER Outdoor air temperature 35°C, water temperature 7°C° - EN 14511		3,25	3,15	2,90
ErP data				
SCOP	(1) (2)	5,12 3,59	5,17 3,67	5,12 3,71
Seasonal energy efficiency ηs	% (1) % (2)	202 141	204 144	202 146
SEER	(3) (4)	7,81 5,09	8,09 5,19	8,31 5,08

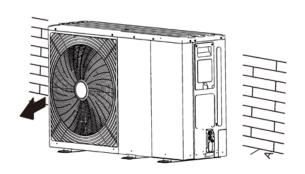
Auriga Compact		6M	8M	10M
Refrigerant circuit				
Refrigerant gas			R32	
Refrigerant load	kg	1,25	1,25	1,25
Hydraulic circuit				
Heat exchanger water flow Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	m³/h	1,12	1,45	1,73
Pump head Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C - EN 14511	kPa	81	75	67
Minimum water content	I	25	25	25
System expansion vessel	I	5	5	5
Safety valve	bar	3	3	3
Hydraulic connections		1"	1"	1"
Water filter		1"	1"	1"
Electrical data				
Power supply	V/Ph/ Hz	230/1/50	230/1/50	230/1/50
Sound data				
Cound navier				
Sound power According to EN 12102: water temperature 55°C and outdoor air temperature 7°C	dB(A)	60	63	65
Sound power According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance,in a free field on a reflective surface	dB(A)	48	51	53
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure				
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance, in a free field on a reflective surface				
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance, in a free field on a reflective surface Weight Empty weight	dB(A)	48	51	53
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance,in a free field on a reflective surface Weight Empty weight Standard configuration, packaging excluded	dB(A)	48	51	53
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance,in a free field on a reflective surface Weight Empty weight Standard configuration, packaging excluded Operating limits in heating mode	dB(A)	48	51 87	53
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance,in a free field on a reflective surface Weight Empty weight Standard configuration, packaging excluded Operating limits in heating mode Outdoor air temperature min/max °C	dB(A)	48	51 87 -25°C/+35°C	53
According to EN 12102: water temperature 55°C and outdoor air temperature 7°C Sound pressure Average sound pressure, at 1 meter distance,in a free field on a reflective surface Weight Empty weight Standard configuration, packaging excluded Operating limits in heating mode Outdoor air temperature min/max °C Water temperature min/max °C	dB(A)	48	51 87 -25°C/+35°C	53

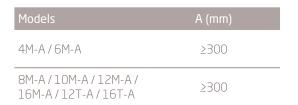
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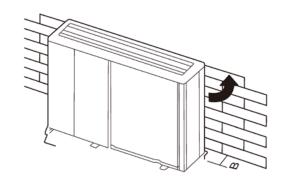


Dimensions and clearance spaces - Auriga

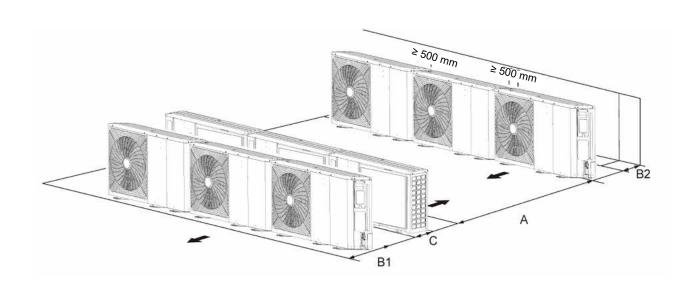








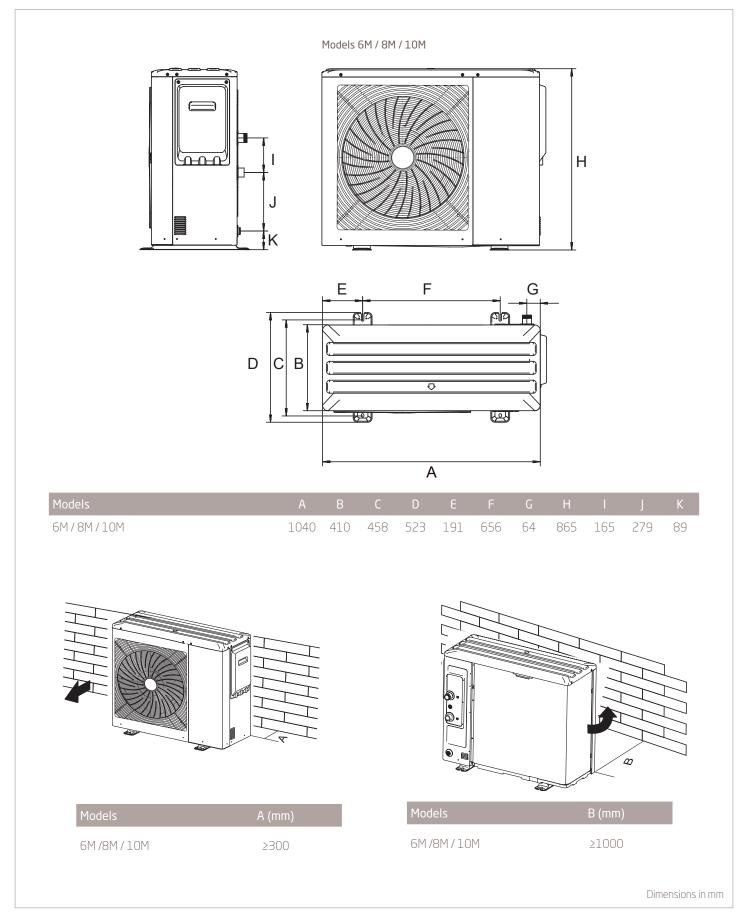
Models	B (mm)
4M-A / 6M-A	≥1000
8M-A/10M-A/12M-A/ 16M-A/12T-A/16T-A	≥1500



Models	A (mm)	B1 (mm)	B2 (mm)	C (mm)
4M-A / 6M-A	≥ 2500	≥1000	≥ 300	≥ 600
8M-A/10M-A/12M-A/ 16M-A/12T-A/16T-A	≥3000	≥ 1500	≥ 300	≥ 600



Dimensions and clearance spaces - Auriga Compact



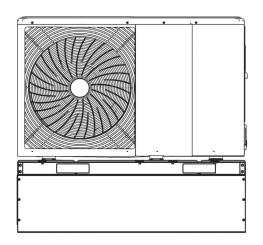
Accessories

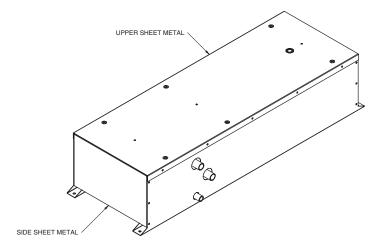
Accessory	Description	Code	Auriga	Auriga Compact
BAXI A to the control of the contro	Remote control panel for Auriga Full heat pump functions control; it can be used as thermostat thanks to the INCLUDED outdoor sensor. COMPULSORY INSTALLATION	A7799122	V	
LOS COSTOS COSTO	Room thermostat Room thermostat (heating and cooling)	7663411	V	V
9	Additional temperature sensor As the included sensor, it allows to extend the on-board electronics functions	A7750595	V	V
7	DHW 3-way valve G 1 1/4" It divertes the water flow from the system to the DHW tank and vice versa, according to the signal received from the heat pump	A7796043	V	V
-	Electrical resistance 3kW 230V Equipped with control panel and electrical protection, it integrates and/or replaces the heat pump in the most critical operating conditions or in case of anomalies of the heat pump	A7750380	V	
-	Electrical resistance 4,5 kW 400V Equipped with control panel and electrical protection, it integrates and/or replaces the heat pump in the most critical operating conditions or in case of anomalies of the heat pump	A7750385	V	
	Anti-vibration rubber dampers - 6 pcs (compact solution) It reduces vibrations and noise of the unit	A7813623	√	
	Anti-vibration rubber support brackets (600 mm lenght) - 3 pcs Stable support against atmospheric events. It allows the noise vibration reduction.	A7816801	√	
	Anti-vibration rubber dampers - 4 pcs (compact solution) It reduces vibrations and noise of the unit	A7777121		V
	Anti-vibration rubber support brackets (600 mm lenght) - 2 pcs Stable support against atmospheric events. It allows the noise vibration reduction.	A7694974		V
	30-liter buffer tank for Auriga NEW Hydraulic connections to be provided by the installer. For: Auriga 4M-A/6M-A	A7837249	V	
	70-liter buffer tank for Auriga NEW Hydraulic connections to be provided by the installer. For: Auriga 8M-A/10M-A/12M-A/16M-A/12T-A/16T-A	A7837250	V	



Focus on **NEW**

cod. A7837249 (30 liters) and cod. A7837250 (70 liters) Not suitable for Auriga Compact





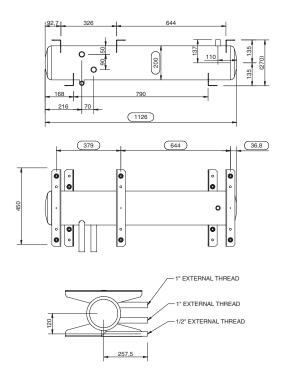
These compact buffer tanks have been designed to be coupled with Auriga heat pumps. They allow to save space in comparison with the traditional cylindric buffer tank.

The 30-liter version grants the minimum water content for the 4 and 6 kW heat pumps, while the 70-liter buffer goes with the models from 8 to 16 kW.

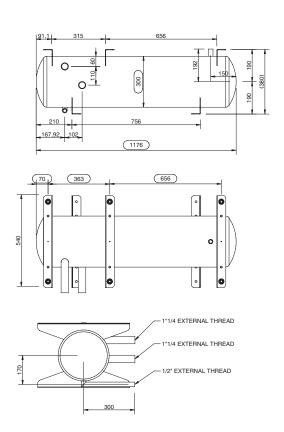
The structure and the materials permit a reliable outdoor installation and to use the water for heating and cooling.

Technical drawings

30-liter compact buffer tank (for Auriga 4-6 kW)



70-liter compact buffer tank (for Auriga 8-10-12-16 kW)



Certification



Auriga heat pumps comply with the regulations EN 14511:2018, EN 14825:2018, EN 12102:2017 and KEYMARK Certification Scheme for Heat Pumps (2022). Certificates No. 041-K023-01 (4-6 kW), 041-K023-02 (8-10 kW), 041-K023-03 (12-16 kW).





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