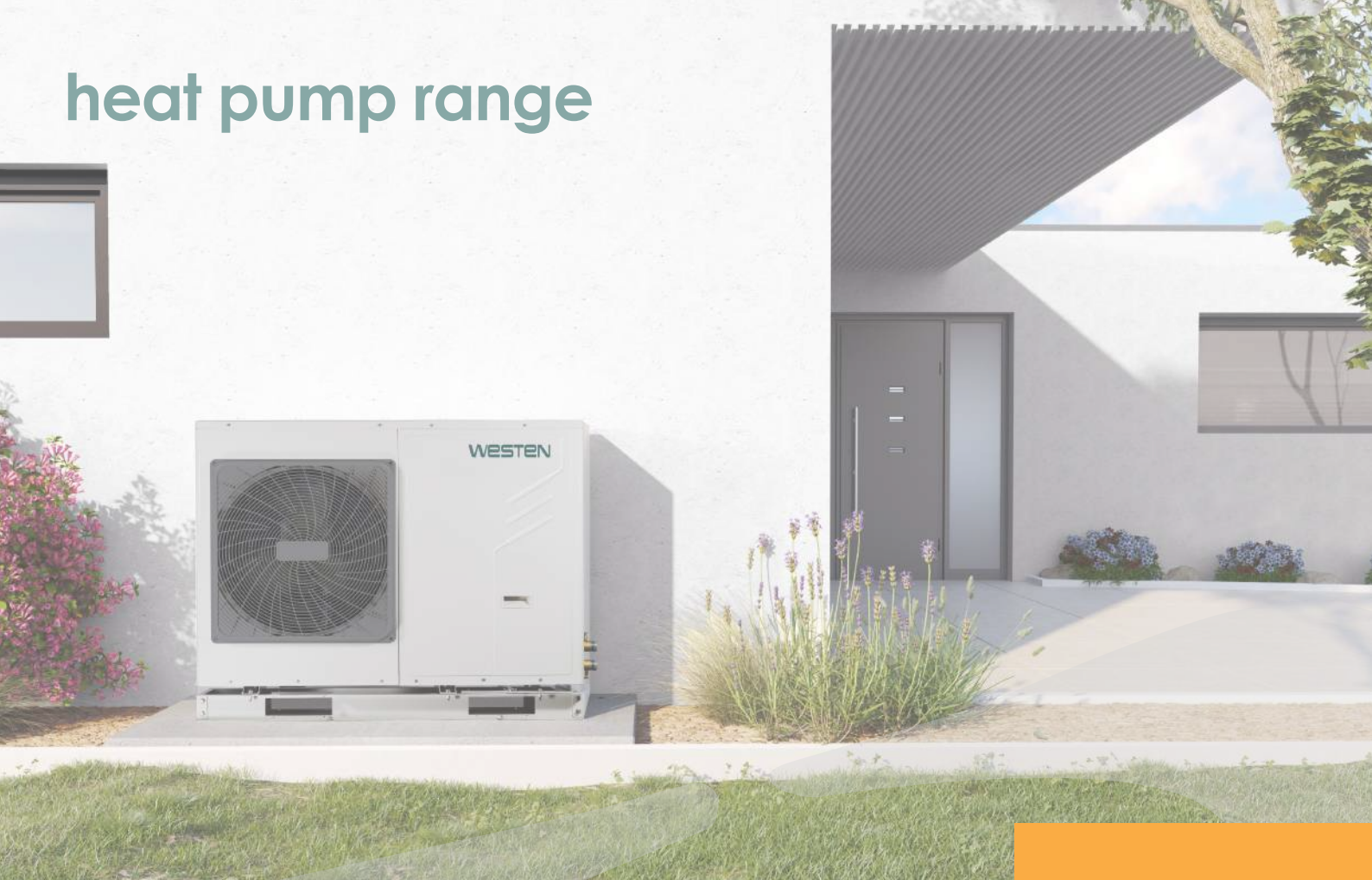


# heat pump range



**WESTEN**  
The smart choice for your home comfort

*Single-phase and three-phase  
inverter air-to-water monobloc heat pumps*

**Auriga**



WESTEN

## Inverter air-to-water monobloc heat pumps

Baxi introduces **Auriga**, the new inverter air-to-water monobloc heat pump range with single-phase and three-phase power supply. The range is characterized by its **easy and simple installation**. Moreover, the available static pressure of the water pump allows to install the unit in large plants, to cover greater distances from the thermal power station or to install the unit combining it with one or more fan coils.

The range is wide and includes **7 models from 5 to 16 kW, single-phase and three-phase releases**.



| Auriga                      |     | 5M   | 7M   | 9M   | 12M   | 16M   | 12T   | 16T   |
|-----------------------------|-----|------|------|------|-------|-------|-------|-------|
| Seasonal energy efficiency  | (1) |      |      |      |       |       |       |       |
|                             | (2) |      |      |      |       |       |       |       |
| Nominal heating capacity kW | (3) | 4,65 | 6,65 | 8,60 | 12,30 | 16,30 | 12,30 | 16,30 |
| COP                         | (3) | 5,00 | 4,94 | 4,60 | 4,81  | 4,45  | 4,84  | 4,49  |
| Nominal cooling output kW   | (4) | 4,85 | 6,30 | 7,95 | 10,90 | 13,80 | 10,90 | 13,80 |
| EER                         | (4) | 2,98 | 2,77 | 2,53 | 2,92  | 2,65  | 2,93  | 2,66  |

(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 12/7°C - EN 14511



## Wide range of powers, from 5 to 16 kW

introduced to satisfy all the installation needs:  
heating, cooling and DHW production.



## Easy to install in different home environments

The available static pressure of the pump allows to face major pressure drops as the one that might occur in large plants or when the unit is combined with a fan coil.



## Excellent cooling performances



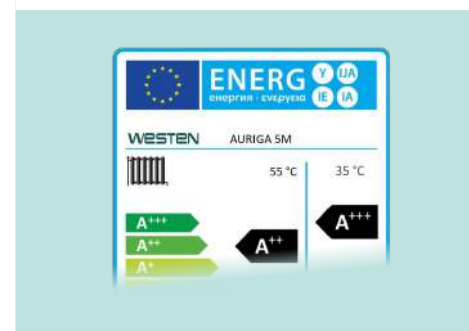
## Remote control panel

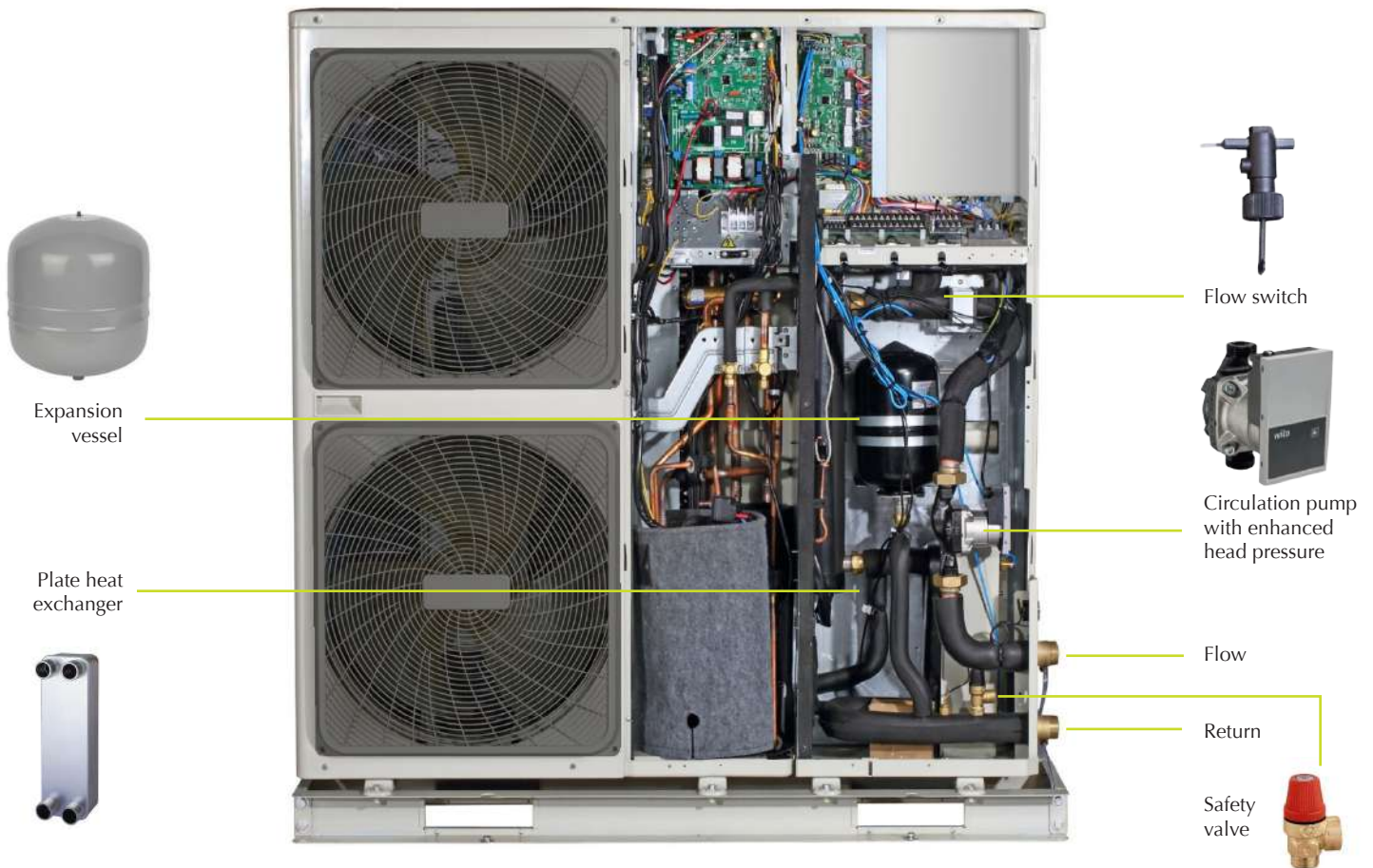
Control of system functions, parameters programming and check.  
Integration in BMS systems thanks to the Modbus protocol.



## ErP Energy Labelling

The energy labelling regulation (EU regulation 2017/1369) requires each product to be labelled according to a decreasing scale from A+++ to D (in heating) and from A+ to F (in DHW production).  
5M/7M/9M models have an A+++ seasonal energy efficiency in low temperature heating.





- > **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 due to operation.
- > **Water-refrigerant exchanger:** brazed steel plate heat exchanger AISI 316 with polypropylene insulation to prevent the condensation 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. In addition, the optimized circuitry allows to reduce the formation of ice in the coil during the heat pump operation.
- > **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, filter driers, high and low pressure switches, pressure transmitter, reverse cycle valves, liquid receiver 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 and air vent valve and metal mesh Y filter (assembled by the installer).
- > **Electrical panel:** includes protection through fuse of the main internal components; the terminal block is divided into a power section for the supply and a control terminal block to connect auxiliary inputs/outputs and the control panel.



### Saving

Maximum energy efficiency  
Wide operating range: up to -25°C outdoor air temperature in heating mode and up to 46°C outdoor air temperature in cooling mode  
Wide operation ratio DC inverter compressor  
Low GWP refrigerant (R32)



### Ease of integration

Suitable to radiand floor heating and fan coil integration  
Integrated management with different systems: boiler integration, solar integration, diverter valve management and secondary circuit pump



### Advanced electronics

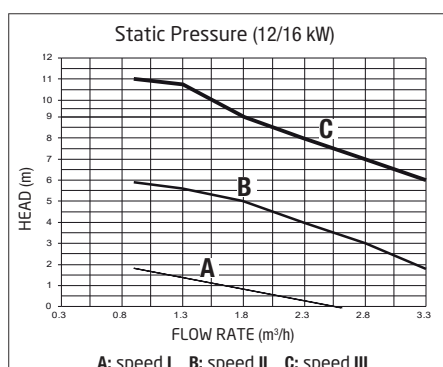
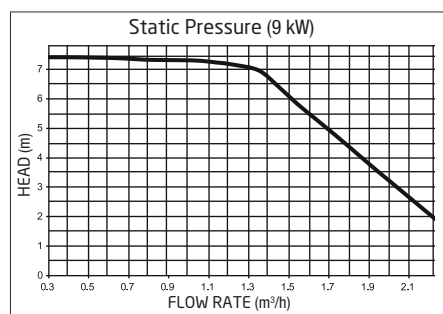
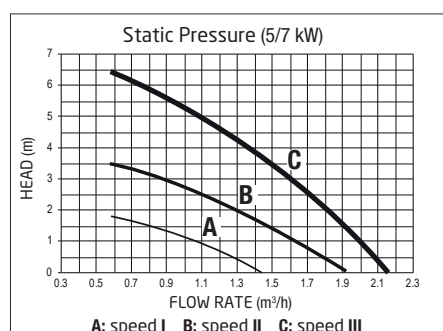
Modbus net connection  
Intelligent defrosting thanks to room temperature, refrigerant temperature, produced water temperature and operating mode simultaneous monitoring



### High sanitary performances

Full control of the DHW: up to 60°C DHW temperature production, boiler water temperature control, DHW circulating pump and solar system integration

### Operating limit curves



### Included functions

Control panel (mandatory installation) to manage different plant configurations directly from the unit:



- > heating and cooling management with 16 climatic curves;
- > DHW tank management, solar integration, boiler integration and circulating DHW pump management;
- > integrated boiler and backup electrical resistance management;
- > anti-legionella function;
- > eco mode with double settable setpoint;
- > silent mode with 2 settable levels of silence;
- > holiday mode: anti-freeze and DHW management with dedicated setpoints, DHW anti-legionella treatment at the end of the setted period.

### Additional functions

Electrical resistance kit

| Auriga  |            | 5M           | 7M           | 9M           | 12M          | 16M          | 12T          | 16T          |
|---|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Heating</b>  |            |              |              |              |              |              |              |              |
| Rated heat output<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C<br>- EN 14511         | kW         | 4,65         | 6,65         | 8,60         | 12,30        | 16,30        | 12,30        | 16,30        |
| Absorbed electrical power<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C<br>- EN 14511 | kW         | 0,93         | 1,35         | 1,87         | 2,56         | 3,66         | 2,54         | 3,63         |
| COP<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C<br>- EN 14511                       |            | 5,00         | 4,94         | 4,60         | 4,81         | 4,45         | 4,84         | 4,49         |
| Rated heat output<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 40/45°C<br>- EN 14511         | kW         | 4,65         | 6,73         | 8,60         | 12,10        | 16,20        | 12,10        | 16,20        |
| Absorbed electrical power<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 40/45°C<br>- EN 14511 | kW         | 1,35         | 1,89         | 2,50         | 3,42         | 4,79         | 3,39         | 4,73         |
| COP<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 40/45°C<br>- EN 14511                       |            | 3,45         | 3,57         | 3,44         | 3,54         | 3,39         | 3,57         | 3,42         |
| Rated heat output<br>Outdoor air temperature 7°C – 87% R.H., water temperature 47/55°C<br>- EN 14511          | kW         | 4,65         | 6,80         | 8,60         | 11,90        | 16,10        | 11,90        | 16,10        |
| Absorbed electrical power<br>Outdoor air temperature 7°C – 87% R.H., water temperature 47/55°C<br>- EN 14511  | kW         | 1,77         | 2,42         | 3,13         | 4,28         | 5,91         | 4,23         | 5,83         |
| COP<br>Outdoor air temperature 7°C – 87% R.H., water temperature 47/55°C<br>- EN 14511                        |            | 2,63         | 2,81         | 2,75         | 2,78         | 2,73         | 2,81         | 2,76         |
| <b>Cooling</b>  |            |              |              |              |              |              |              |              |
| Nominal cooling capacity<br>Outdoor air temperature 35°C, water temperature 23/18°C - EN 14511                | kW         | 5,10         | 6,50         | 8,00         | 12,20        | 15,50        | 12,20        | 15,50        |
| Absorbed electrical power<br>Outdoor air temperature 35°C, water temperature 23/18°C - EN 14511               | kW         | 1,10         | 1,40         | 1,90         | 2,60         | 3,60         | 2,60         | 3,60         |
| EER<br>Outdoor air temperature 35°C, water temperature 23/18°C - EN 14511                                     |            | 4,82         | 4,65         | 4,16         | 4,78         | 4,26         | 4,78         | 4,26         |
| Nominal cooling capacity<br>Outdoor air temperature 35°C, water temperature 12/7°C - EN 14511                 | kW         | 4,90         | 6,30         | 7,60         | 10,90        | 13,80        | 10,90        | 13,80        |
| Absorbed electrical power<br>Outdoor air temperature 35°C, water temperature 12/7°C - EN 14511                | kW         | 1,60         | 2,30         | 3,00         | 3,70         | 5,20         | 3,70         | 5,20         |
| EER<br>Outdoor air temperature 35°C, water temperature 12/7°C - EN 14511                                      |            | 2,98         | 2,77         | 2,53         | 2,92         | 2,65         | 2,92         | 2,65         |
| <b>ErP data</b>   |            |              |              |              |              |              |              |              |
| SCOP  | (1)<br>(2) | 4,47<br>3,24 | 4,47<br>3,24 | 4,51<br>3,22 | 4,29<br>3,23 | 4,30<br>3,27 | 4,29<br>3,23 | 4,30<br>3,27 |
| Seasonal heating efficiency $\eta_{s,h}$  | (1)<br>(2) | 176<br>127   | 176<br>127   | 177<br>126   | 169<br>126   | 169<br>128   | 169<br>126   | 169<br>128   |
| SEER  | (3)<br>(4) | 7,61<br>4,71 | 8,58<br>4,99 | 7,88<br>4,92 | 7,5<br>4,85  | 6,78<br>4,54 | 7,5<br>4,85  | 6,78<br>4,54 |
| <b>Refrigerant circuit</b>  |            |              |              |              |              |              |              |              |
| Refrigerant Gas   |            | R32          |              |              |              |              |              |              |
| Refrigerant load  | kg         | 2,00         | 2,00         | 2,00         | 2,80         | 2,80         | 2,80         | 2,80         |

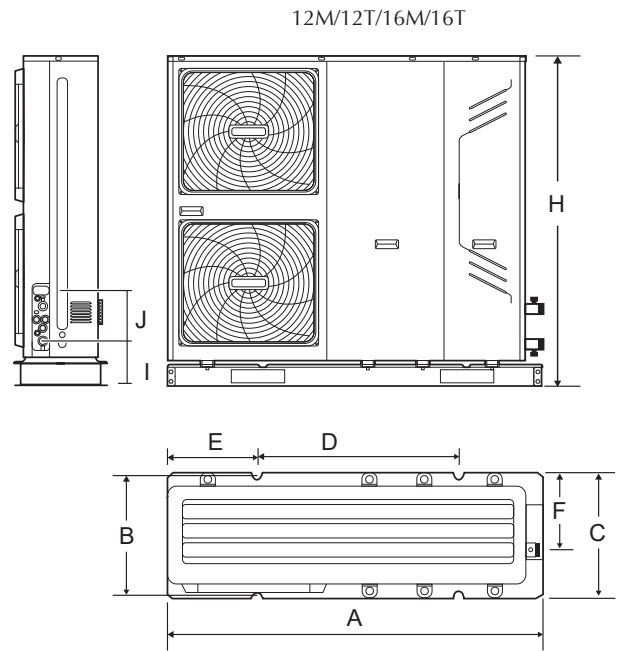
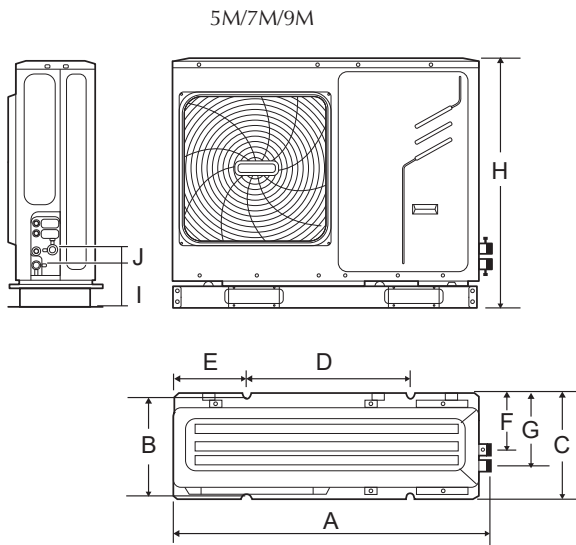
(1) Heating operation energy class: LOW TEMPERATURE, AVERAGE climatic conditions (UE N° 811/2013)

(2) Heating operation energy class: MEDIUM TEMPERATURE, AVERAGE climatic conditions (UE N° 811/2013)

(3) Room cooling seasonal energy efficiency radiant floor heating application (23/18°C) - (EN 14825)

(4) Room cooling Seasonal energy efficiency for Fan coil applications (12/7°C) - (EN 14825)

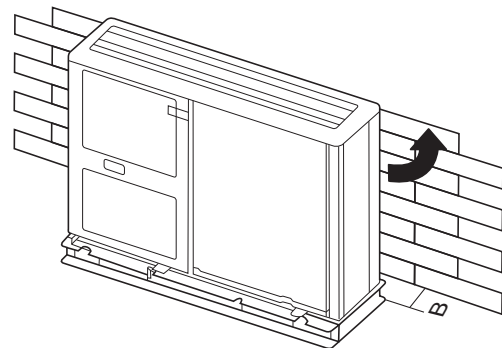
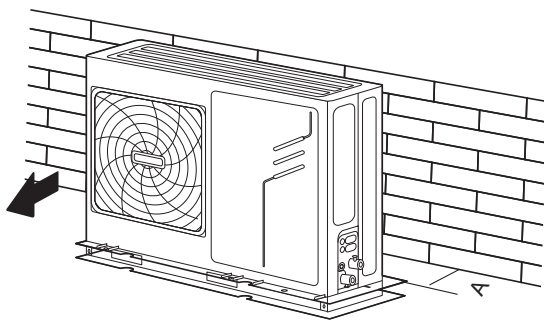
| <b>Auriga</b>  |                   | <b>5M</b> | <b>7M</b> | <b>9M</b> | <b>12M</b> | <b>16M</b> | <b>12T</b> | <b>16T</b> |
|--|-------------------|-----------|-----------|-----------|------------|------------|------------|------------|
| <b>Hydraulic circuit</b>   |                   |           |           |           |            |            |            |            |
| Heat exchanger water flow<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C<br>- EN 14511  | m <sup>3</sup> /h | 0,80      | 1,15      | 1,49      | 2,13       | 2,82       | 2,13       | 2,82       |
| Available static pressure<br>Outdoor air temperature 7°C – 87 % R.H., water temperature 30/35°C<br>- EN 14511  | kPa               | 55        | 50        | 60        | 80         | 70         | 80         | 70         |
| Minimum water content  | l                 | 20        | 20        | 20        | 40         | 40         | 40         | 40         |
| Expansion vessel   | l                 | 2         | 2         | 2         | 5          | 5          | 5          | 5          |
| Safety valve   | bar               | 3         | 3         | 3         | 3          | 3          | 3          | 3          |
| Hydraulic connections  |                   | 1"        | 1"        | 1"        | 1" 1/4     | 1" 1/4     | 1" 1/4     | 1" 1/4     |
| Metal mesh water filter  |                   | 1"        | 1"        | 1"        | 1" 1/4     | 1" 1/4     | 1" 1/4     | 1" 1/4     |
| <b>Electrical data</b>   |                   |           |           |           |            |            |            |            |
| Power supply   | V/Ph/Hz           | 230/1/50  | 230/1/50  | 230/1/50  | 230/1/50   | 230/1/50   | 400/3/50   | 400/3/50   |
| <b>Noise data</b>  |                   |           |           |           |            |            |            |            |
| Sound power<br>The sound power is the maximum value obtained at full load at nominal test conditions   | dB(A)             | 61        | 64        | 67        | 68         | 71         | 68         | 71         |
| Sound pressure<br>Average sound pressure, at 1 meter distance, in a free field on a reflective surface; non-binding value, obtained from the sound power level | dB(A)             | 48,8      | 52,3      | 54,5      | 57,6       | 58,1       | 57,2       | 59,0       |
| <b>Weight</b>  |                   |           |           |           |            |            |            |            |
| Empty weight in operation<br>Standard empty configuration, packaging not included  | kg                | 92        | 92        | 92        | 158        | 158        | 172        | 172        |



measures in mm

| Models          | A    | B   | C   | D   | E   | F   | G   | H    | I   | J   |
|-----------------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 5M/7M/9M        | 1210 | 374 | 402 | 502 | 404 | 215 | 277 | 945  | 165 | 59  |
| 12M/12T/16M/16T | 1404 | 373 | 405 | 760 | 361 | 280 | /   | 1414 | 176 | 144 |

## Clearance space



| Models          | A (mm) |
|-----------------|--------|
| 5M/7M/9M        | ≥300   |
| 12M/12T/16M/16T | ≥300   |

| Models          | B (mm) |
|-----------------|--------|
| 5M/7M/9M        | ≥1000  |
| 12M/12T/16M/16T | ≥1500  |





### Remote control panel

Full heat pump functions control; it can be used as thermostat thanks to the INCLUDED outdoor sensor  
CUMPULSORY INSTALLATION

A7750381



### Room thermostat

Digital room thermostat (heating and cooling)

7663411



### Additional outdoor sensor

As the included sensor, it allows to extend the on-board electronics functions

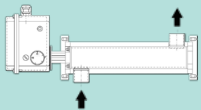
A7750595



### 3-way valve G 1 1/4" for DHW

Fitted downstream from the heat pump, it switches the water flow from the system to the DHW tank and vice versa, according to the signal received by the heat pump

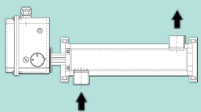
A7754874



### Electrical resistance 3kW 230V

Equipped electrical control and protection panel, it integrates and/or replaces the heat pump in the most critical operating conditions or in case of anomaly of the heat pump

A7750380



### Electrical resistance 4,5kW 400V

Equipped electrical control and protection panel, it integrates and/or replaces the heat pump in the most critical operating conditions or in case of anomaly of the heat pump

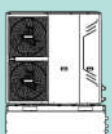
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### Anti-vibration rubber support brackets (600 mm length)

Stable support from atmospheric events; it allows the noise vibration reduction

A7694974



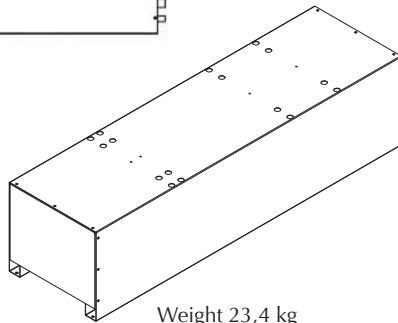
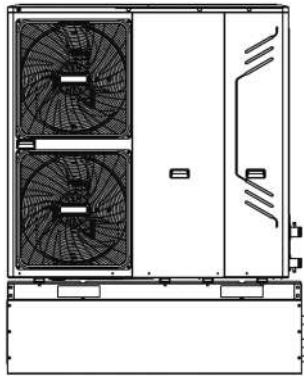
### 60 lt compact inertial for Auriga NEW

Hydraulic connetions must be provided by the installer

A7777754

## Compact inertial for Auriga NEW

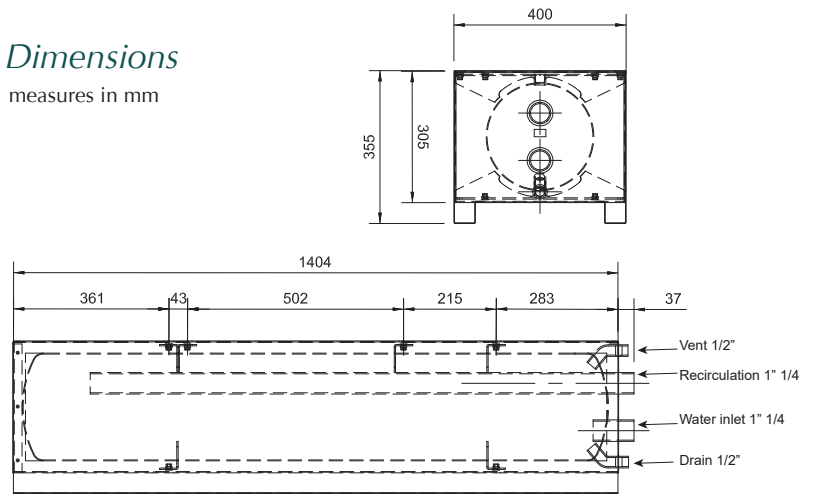
cod. A777754



Weight 23,4 kg

### Dimensions

measures in mm



The compact inertial tank is designed to be installed with Auriga heat pumps. The installation of this new tank saves space compared to the installation of the classic cylindrical puffer. The 60 litre capacity meets the minimum water content for all Auriga models.

Its structure and the material used guarantee reliability for outdoor installation and for heating and cooling water production.



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The Company assumes no responsibility for any possible contents mistakes, and reserves the right to make changes in products, due to technical or commercial demands, at any time without notice.

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