



# High wall-mounted fan coil units

## GHW 2 - 4 kW



EC Motor



2 pipes systems



Tangential fan



High wall mounting



Infrared remote controller

Where space is precious, comfort comes from above.

In recent years, energy saving has become a top priority. GHW meets this need thanks to the EC motor with inverter technology, which ensures high efficiency, the hourly programming function, which allows operation to be adapted to actual needs, and the eco mode, designed to offer optimal comfort while minimizing consumption. Installing a high-wall fan coil is an intelligent solution to optimize space in modern environments, where every square meter counts. This type of installation not only frees up floor space for furniture or other uses but also allows for more even air distribution, improving living comfort.

The infrared remote control makes comfort control extremely convenient, allowing you to adjust temperature, ventilation speed, and operating modes comfortably from the sofa. GHW can be integrated into a supervision system via the Modbus communication protocol.

Designed to offer maximum versatility and ease of installation. It is available with a three-way valve already installed, allowing to optimize installation time and minimize the installer's work. Alternatively, it can be configured with a two-way valve, particularly useful when a modulating circulator or other flow control devices are present, providing a fully customizable solution based on the specific system requirements.

### PLUS

- » Electronically controlled EC motor
- » Compact dimensions, identical for the whole range
- » Incorporated 3- way or 2-way ON/OFF valves
- » Self-diagnosis system with error code display on the screen.
- » Construction of global addressable networks with an external supervisor



#### GHW13/23/33 configuration

Refers to units equipped with a three-way valve with ON/OFF actuator, already installed on board.

#### GHW12/22/32 configuration

Refers to units equipped with a two-way valve with ON/OFF actuator, already installed on board.

## MAIN COMPONENTS

### Cabinet

Characterized by an elegant and versatile design, it is crafted from durable ABS to seamlessly blend into any environment. The air outlet is equipped with a vertical deflector featuring adjustable fins to ensure uniform air distribution throughout the room. The front panel includes an integrated display showing the ambient temperature and any malfunction notifications.



### Heat exchanger

The finned block heat exchangers consist of copper tubing and aluminium fins. Thanks to the hydrophilic treatment, the wettability of the aluminum fins is improved, ensuring rapid removal of condensation from the fan coil and preventing the formation of mold and bacteria.

### Hydraulic connections

Viewing the unit from the front, the hydraulic connections (already insulated) emerge from the left side of the unit and must therefore be connected to the system on the right side. Meanwhile, the condensate drain pipe provided on the right side of the unit must be secured on the left side. The unit's mounting template is specifically designed with a strategic hole intended to facilitate the hydraulic connections.

### EC motor and fan

The electronic motor with permanent magnets is designed to modulate the ventilation speed, reducing electricity consumption to less than half compared to asynchronous motors. The motor acts on the rotation of a low-noise tangential fan.

### Valve assembly

3-way or 2-way ON/OFF valves already wired and installed inside the indoor unit. The connection to the system is made with hoses located on the rear of the unit. The valve diverts part of the unused water flow from the fan coil to a bypass circuit, ensuring the stability of the flow in the main system.



### Remote control

Included by default, the infrared remote control allows you to control all the fan coil functions, including setting the on/off timer.



### WALLPAD

The GHWWP wallpad manages all the functions of the infrared remote control but is also equipped with a large LCD display that makes the user experience more intuitive.





## RATED TECHNICAL DATA

| GHW                       |        |                   | 1    |      |      | 2    |      |      | 3    |      |      |
|---------------------------|--------|-------------------|------|------|------|------|------|------|------|------|------|
| Speed                     |        |                   | min  | med  | max  | min  | med  | max  | min  | med  | max  |
| Total cooling capacity    | (1)(E) | kW                | 1,80 | 2,04 | 2,30 | 2,19 | 2,54 | 2,91 | 2,88 | 3,30 | 3,81 |
| Sensible cooling capacity | (1)(E) | kW                | 1,38 | 1,55 | 1,74 | 1,71 | 2,00 | 2,33 | 2,31 | 2,71 | 3,18 |
| FCEER class               |        |                   | A    |      |      | D    |      |      | B    |      |      |
| Water flow                | (1)    | l/h               | 360  | 400  | 460  | 380  | 450  | 510  | 510  | 570  | 670  |
| Water pressure drop       | (1)(E) | kPa               | 18   | 22   | 29   | 23   | 30   | 37   | 33   | 41   | 57   |
| Heating capacity          | (2)(E) | kW                | 1,70 | 2,00 | 2,73 | 2,42 | 2,77 | 3,23 | 3,09 | 3,65 | 4,30 |
| FCCOP class               |        |                   | B    |      |      | D    |      |      | B    |      |      |
| Water flow                | (2)    | l/h               | 380  | 450  | 490  | 420  | 490  | 560  | 560  | 640  | 730  |
| Water pressure drop       | (2)(E) | kPa               | 18   | 22   | 29   | 23   | 30   | 37   | 33   | 41   | 57   |
| Rated air flow            |        | m <sup>3</sup> /h | 356  | 412  | 462  | 331  | 339  | 484  | 590  | 698  | 825  |
| Power input               | (E)    | W                 | 9    | 10   | 11   | 29   | 32   | 35   | 15   | 20   | 34   |
| Total sound power level   | (3)(E) | dB(A)             | 39   | 40   | 42   | 35   | 42   | 48   | 47   | 51   | 57   |

(1) Water temperature 7°C/12°C, air temperature dry bulb 27°C, wet bulb 19°C (47% relative humidity) according to EN1397:2021

(2) Water temperature 45°C / 40°C, air temperature 20°C

(3) Sound power measured according to standards ISO 3741 and ISO 3742

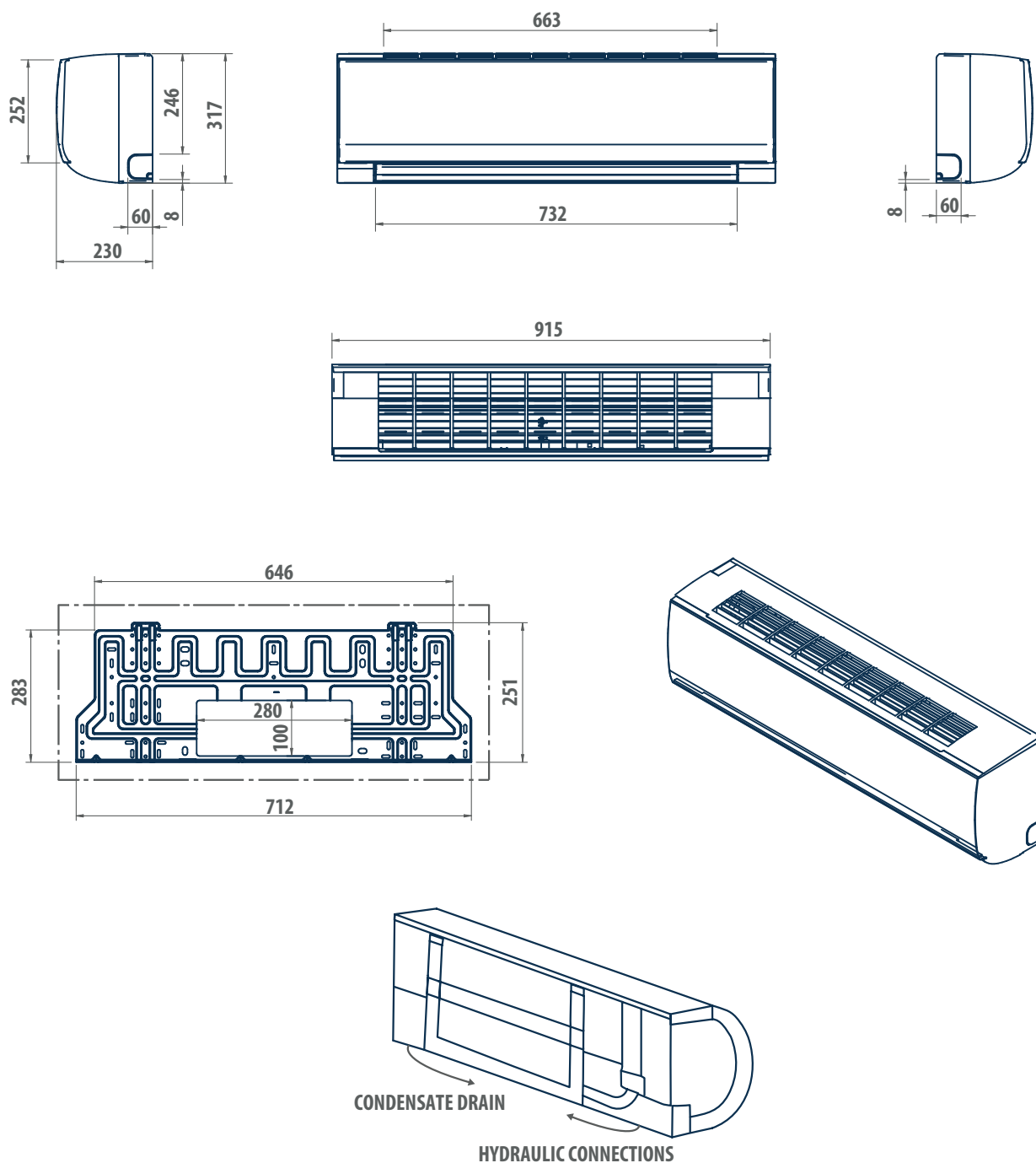
(E) EUROVENT certified data

Power supply 230-1-50 (V-ph-Hz)



## DIMENSIONAL DRAWINGS

### GHW



| GHW                  |    | 1  | 2   | 3  |
|----------------------|----|----|-----|----|
| Water connections    | "  |    | 1/2 |    |
| Condensate discharge | mm |    | 16  |    |
| Weight               | kg | 13 | 13  | 13 |