

# HOT WATER

HWMB5 1080-1100 J

Heat pump water heater  
monobloc 80 and 107 liters series "Ducted kitchen"



Monobloc heat pump water heater,  
designed to be installed inside the kitchen  
column unit

**R290** | Refrigerant gas

**65° C** | Water temperature  
with compressor only

**Anti-legionella cycle**

Stainless steel tank

Titanium Anode

Removable upper body with horizontal extraction,  
to facilitate maintenance and installation  
operations in narrow spaces

ErP Ready

## PERFORMANCE

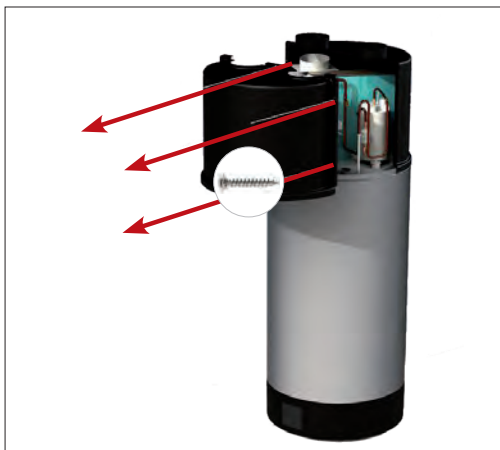
| MODEL        | RATED<br>LOAD | ENERGY<br>CLASS | COP<br>According EN 16147 |
|--------------|---------------|-----------------|---------------------------|
| HWMB5 1080 J | 80 L          | <b>A+</b>       | <b>2.93</b>               |
| HWMB5 1100 J | 107 L         | <b>A+</b>       | <b>3.03</b>               |

| Model                                         |                                        |            | HWMB5 1080 J        |  | HWMB5 1100 J |  |
|-----------------------------------------------|----------------------------------------|------------|---------------------|--|--------------|--|
| Tank volume                                   |                                        | L          | 80                  |  | 107          |  |
| Nominal thermal power <sup>1</sup>            |                                        | W          | 1000                |  | 1000         |  |
| Nominal power consumption <sup>1</sup>        |                                        | W          | 210                 |  | 210          |  |
| Nominal COP <sup>1</sup>                      |                                        | W/W        | 4.76                |  | 4.76         |  |
| Nominal DHW production capacity <sup>1</sup>  |                                        | L/h        | 20.00               |  | 20.00        |  |
| COPDHW <sup>2</sup>                           |                                        | W/W        | 2.93                |  | 3.03         |  |
| Test cycle profile <sup>2</sup>               |                                        | -          | M                   |  | M            |  |
| Hot water volume at 40°C <sup>2</sup>         |                                        | L          | 114                 |  | 140          |  |
| Energy efficiency (η wh) <sup>3</sup>         |                                        | %          | 123.1               |  | 128.6        |  |
| Energy efficiency class <sup>3</sup>          |                                        | -          | A+                  |  | A+           |  |
| IP protection rating                          |                                        | -          | IPX1                |  | IPX1         |  |
| Hot water temperature regulation range        |                                        | °C         | 35~65               |  | 35~65        |  |
| Maximum hot water temperature compressor only |                                        | °C         | 65                  |  | 65           |  |
| Electrical data                               | Power supply                           | Ph-V-Hz    | 1-220~240V-50Hz     |  |              |  |
|                                               | Integrative electrical resistance      | W          | 1500                |  | 1500         |  |
|                                               | Maximum current (including resistance) | A          | 8.30                |  | 8.30         |  |
| Refrigerant circuit data                      | Refrigerant <sup>4</sup>               | Type (GWP) | R290 (0.02)         |  | R290 (0.02)  |  |
|                                               | Quantity                               | g          | 140                 |  | 140          |  |
|                                               | Compressor                             | type       | Rotary ON/OFF       |  |              |  |
| Hydraulic data                                | Tank material                          | -          | Stainless Steel 304 |  |              |  |
|                                               | DHW connections                        | inches     | G1/2" (DN15)        |  | G1/2" (DN15) |  |
|                                               | Solar coil connections                 | inches     | -                   |  | -            |  |
|                                               | Maximum operating pressure             | bar        | 10                  |  | 10           |  |
| Air ducts                                     | Air flow rate (with ducts)             | m³/h       | 280                 |  | 280          |  |
|                                               | Fan's static pressure                  | Pa         | 60                  |  | 60           |  |
|                                               | Internal diameter                      | mm         | 125                 |  | 125          |  |
|                                               | Maximum length                         | m          | 8                   |  | 8            |  |
| Product specifications                        | Working range (compressor only)        | °C         | -5~+43              |  | -5~+43       |  |
|                                               | Anode type                             |            | Titanium electrode  |  |              |  |
|                                               | Sound power level                      | dB(A)      | 45                  |  | 45           |  |
|                                               | Dimensions (D x H)                     | mm         | ø520x1160           |  | ø520x1368    |  |
|                                               | Net weight                             | kg         | 48                  |  | 48           |  |
| Controls                                      | On-board machine control               |            | Included            |  |              |  |
|                                               | WiFi module                            |            | Integrated          |  |              |  |

1. Conditions: intake air 20° C DB (15° C WB), water inlet 15° C / outlet 55° C. 2. Test according to EN16147; air 7° C, water inlet 10° C.

3. Directive 2009/125/EC - ERP EU No. 812/2013 (SGS-CSTC certification for all models). 4. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 0.02: if 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 50 times less than 1 kg of CO<sub>2</sub>, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

## HEATING



### HORIZONTALLY REMOVABLE UPPER HEAT PUMP BODY

Easier maintenance and less space required for installation.

## COMFORT AT HOME

Designed to be installed in the kitchen, like a traditional boiler, the “Ducted Kitchen” series fits comfortably inside the kitchen column, with air expelled outside.



## SAFETY

The titanium anode provides corrosion protection without the need for regular replacement like magnesium anode.

Anti-legionella system: the danger of legionella bacteria is averted thanks to periodic cycles that raise the temperature of the water inside the tank above 70° C.

## INSTALLATION WARNINGS

1. It is mandatory to install a safety and non-return valve on the cold water inlet. Failure to do so may seriously damage the equipment. Use a valve with a 0.7 MPa setting. For the installation location, refer to the piping connection diagram.
2. The safety valve discharge pipe must be vertical and must not be placed in an environment at risk of freezing.
3. Water must be able to drip freely from the tube and its end must be left free.
4. The safety valve must be tested regularly to ensure it is working properly and to remove any limescale that may be blocking it.
5. Installation must be carried out in strict compliance with current regulations (R290).

## HYDRAULIC CONNECTION DIAGRAM

