

# Airmi Monoblock heat pump

AIMG140X3 <sup>[R14]</sup>

- COP 4,84
- ↑↑↑
- 25°C
- R32 REFRIGERANT  
Environmentally friendly
- 65°C
- TUYA SMART
- 5-YEAR WARRANTY
- CE



## Device features

|  |   |                                      |                                     |                                   |   |                                  |                          |
|--|---|--------------------------------------|-------------------------------------|-----------------------------------|---|----------------------------------|--------------------------|
|  |   |                                      |                                     |                                   |   |                                  |                          |
| Environmentally friendly refrigerant R32 | Efficient heating                                       | Energy efficiency class at 35°C A+++ | Energy efficiency class at 55°C A++ | Maximum COP 4,84                  | Operating range down to -25°C           | Supply water temperature of 65°C | Smart Grid functionality |
|  |   |                                      |                                     |                                   |   |                                  |                          |
| Twin rotary compressor                   | Integrated electric heater                              | Outdoor unit drip tray heater        | Compressor crankcase heater         | Easy installation and maintenance | Silent mode                             | WiFi module in wired controller  | Daily operation schedule |
|  |   |                                      |                                     |                                   |   |                                  |                          |
| Configurable weekly schedules            | Vacation mode   | Menu in English                      | Multilanguage menu                  | Integrated temperature sensor     | Weather operating modes (climate curve) | 2 heating control zones          | Dedicated application    |
|  |   |                                      |                                     |                                   |   |                                  |                          |
| Disinfection                             | Maximum leaving water temperature of 60°C (in DHW mode) | Prepared to create a cascade system  | Modbus Protocol                     |                                   |   |                                  |                          |

# Specification outdoor unit

| Model  |   |                       | AIMG140X3 R14                      |   |
|--|---|-----------------------|------------------------------------|---|
| EAN Code   |   |                       | 5905567602450                      |   |
| Power supply   |   | V-Hz, Ø               | 380-420-50, 3f                     |   |
| Heating (A7/W35)   | Capacity  | kW                    | 14,50                              |   |
|  | Rated input   | kW                    | 2,99                               |   |
|  | COP   |                       | 4,84                               |   |
| Heating (A7/W45)   | Capacity  | kW                    | 14,50                              |   |
|  | Rated input   | kW                    | 3,89                               |   |
|  | COP   |                       | 3,72                               |   |
| Heating (A7/W55)   | Capacity  | kW                    | 13,80                              |   |
|  | Rated input   | kW                    | 4,52                               |   |
|  | COP   |                       | 3,12                               |   |
| Cooling (A35/W18)  | Capacity  | kW                    | 14,10                              |   |
|  | Rated input   | kW                    | 3,10                               |   |
|  | EER   |                       | 4,56                               |   |
| Cooling (A35/W7)   | Capacity  | kW                    | 14,30                              |   |
|  | Rated input   | kW                    | 5,11                               |   |
|  | EER   |                       | 2,80                               |   |
| Seasonal energy efficiency LWT at 35°C                                     | SCOP <sup>(1)</sup>   |                       | 4,67                               |   |
|  | Rated heat output   | kW                    | 13,2                               |   |
|  | Seasonal energy efficiency ratio (η <sub>S</sub> )            | %                     | 184                                |   |
|  | Annual energy consumption                                     | kWh                   | 5821                               |   |
|  | Seasonal space heating energy efficiency class <sup>(1)</sup> |                       | A+++                               |   |
| Seasonal energy efficiency LWT at 55°C                                     | SCOP <sup>(1)</sup>   |                       | 3,62                               |   |
|  | Rated heat output   | kW                    | 12,40                              |   |
|  | Seasonal energy efficiency ratio (η <sub>S</sub> )            | %                     | 142                                |   |
|  | Annual energy consumption                                     | kWh                   | 7054                               |   |
|  | Seasonal space heating energy efficiency class <sup>(1)</sup> |                       | A++                                |   |
| SEER   | LWT at 7°C  |                       | 5,59                               |   |
|  | LWT at 18°C   |                       | 8,33                               |   |
| Minimum rated current of the overcurrent circuit breaker with breaker type |   | A                     | B25                                |   |
| Compressor   |   | Type                  | Twin rotary inverter compressor DC |   |
| Fan  | Type  |                       | Brushless DC motor / BLDC          |   |
|  | Quantity  |                       | 1                                  |   |
| Refrigerant  | Type  |                       | R32                                |   |
|  | GWP   |                       | 675                                |   |
|  | Quantity  | kg                    | 2,1                                |   |
|  |   | TCO <sub>eq</sub>     | 1,417                              |   |
| Minimal wire pcs and dimension of cords*                                   |   | pcs × mm <sup>2</sup> | 5 × 4                              |   |
| Bracket spacing  |   | (W1 × W2 × D)         | mm                                 |   |
|  |   |                       | 654×280×493                        |   |
| Sound pressure level   |   |                       | dB(A)                              |   |
|  |   |                       | 50                                 |   |
| Sound power level  |   |                       | dB(A)                              |   |
|  |   |                       | 65                                 |   |
| Net dimensions   |   | (W × D × H)           | mm                                 |   |
|  |   |                       | 1203 × 493 × 860                   |   |
| Gross dimensions   |   | (W × D × H)           | mm                                 |   |
|  |   |                       | 1285 × 495 × 1040                  |   |
| Net weight / Gross weight  |   |                       | kg                                 |   |
|  |   |                       | 140 / 159                          |   |
| Operating outdoor temperature  | Cooling / Heating   | °C                    | -5-43 / -25-35                     |   |
|  | DHW   | °C                    | -25-43                             |   |
| Operation modes  |   |                       | Heating and cooling                |   |
| Leaving water temperature  | Space cooling   | °C                    | 7-25                               |   |
|  | Space heating   | °C                    | 25-65                              |   |
|  | DHW (tank)  | °C                    | 25-60                              |   |
| Electric heater  | Power supply  | V-Hz, Ø               | 380-420-50, 3f                     |   |
|  | Number of heating stages                                      | pcs                   | 3                                  |   |
|  | Power   | kW                    | 9                                  |   |
| Maximum operating current  |   | A                     | 13,6                               |   |
| Water circuit  | Water connections   |                       | mm (inch)                          |   |
|  |   |                       | Ø33 (1,30)                         |   |
|  | Pressure relief valve   |                       | MPa                                |   |
|  |   |                       | 0,3                                |   |
|  | Condensate drain  |                       | mm                                 |   |
|  |   |                       | Ø12,7                              |   |
|  | Expansion tank  | Total volume          |                                    | l |
|  |   |                       |                                    | 5 |
|  |   | Actual volume         |                                    | l |
|  |   |                       |                                    | 2 |
| Maximum pressure   |   | MPa                   |                                    |   |
|  |   | 0,5                   |                                    |   |
| Initial pressure   |   | MPa                   |                                    |   |
|  |   | 0,15                  |                                    |   |
| Heat exchanger   | Type  |                       | PHE / plate heat exchanger         |   |
|  | Minimum flow  |                       | l/min                              |   |
|  |   |                       | 10                                 |   |
| Water pump head  |   | m                     |                                    |   |
|  |   |                       | 9                                  |   |
| Water pump type  |   |                       | DC inverter                        |   |
| Total water volume   |   | l                     |                                    |   |
|  |   |                       | 1,53                               |   |

(1) Seasonal energy efficiency class measured under average climate conditions.

Notes: DHW - Domestic hot water, LWT - Leaving water temperature

The sound pressure level is measured 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in semi-anechoic room. During on-site operation sound pressure levels can be higher as a result of ambient noise. Sound pressure level and sound power level reflect the maximum value tested under three conditions specified respectively in notes A7W35, ΔT=5; A7W45, ΔT=5; A7W55 ΔT=8; relative humidity 85%. The figures specified above refer to the following standards: EN14511; EN14825; EN50564; EN12102; (EU) Np. 811/2013; (EU) No. 813/2013; Journal of Laws 2014 / C 207/02: 2014.

The residual current circuit breaker used to protect the electrical circuit of the appliance shall be selected in view of the electrical regulations in force, assuming that the rated residual current is not greater than 30mA

\*The above values apply to supply cables with a maximum length of 20mb. If this value is exceeded, an electrical designer should be consulted.