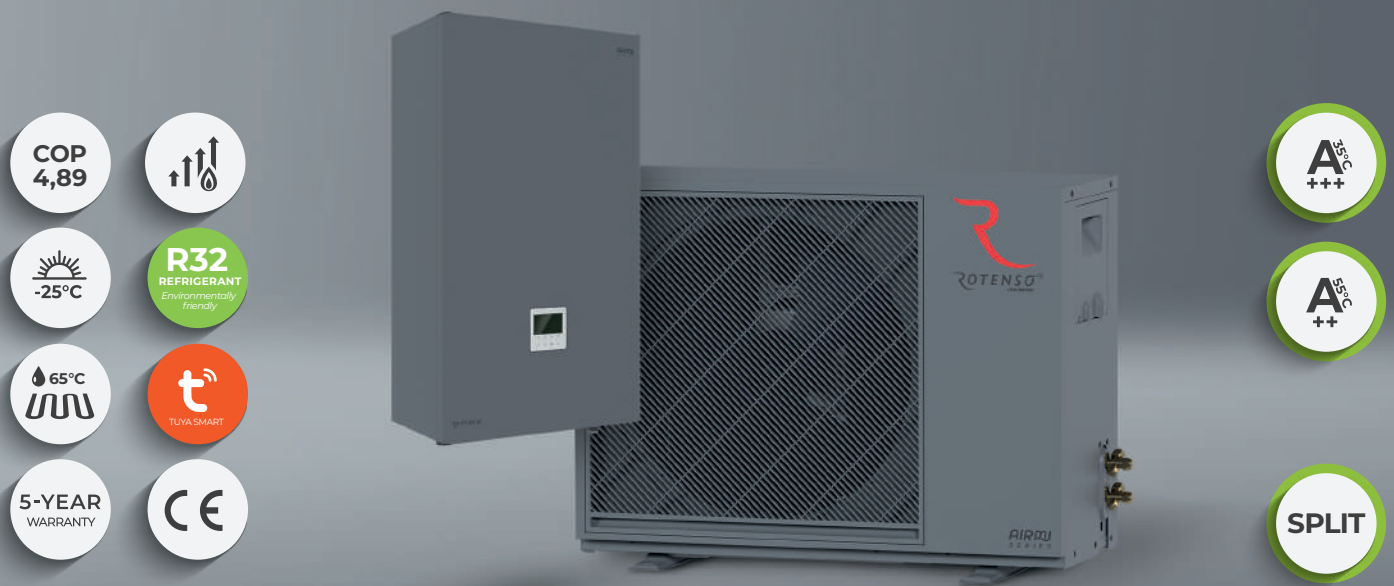

































# Airmi Split heat pump

AISG60X1o<sup>[R14]</sup> / AIS60X1i<sup>[R14]</sup>



## Device features

- |   |   |   |  |  |  |  |  |
|---|---|---|--|--|--|--|--|
| <br>Environmentally friendly refrigerant R32 | <br>Efficient heating          | <br>Energy efficiency class at 35°C A+++ | <br>Energy efficiency class at 55°C A++ | <br>Maximum COP 4,89  | <br>Operating range down to -25°C       | <br>Supply water temperature of 65°C  | <br>Smart Grid functionality              |
| <br>Twin rotary compressor                   | <br>Integrated electric heater | <br>Outdoor unit drip tray heater        | <br>Compressor crankcase heater         | <br>Indoor unit drip tray                                   | <br>Easy installation and maintenance   | <br>Compact indoor split unit housing | <br>Maximum installation length up to 15m |
| <br>Silent mode                              | <br>Integrated Wi-Fi module    | <br>Daily operation schedule             | <br>Configurable weekly schedules       | <br>Vacation mode   | <br>Menu in English                     | <br>Multilanguage menu                | <br>Integrated temperature sensor         |
| <br>Weather operating modes (climate curve)  | <br>2 heating control zones    | <br>Dedicated application                | <br>Disinfection                        | <br>Maximum leaving water temperature of 60°C (in DHW mode) | <br>Prepared to create a cascade system | <br>Modbus Protocol                   |  |

# Specification indoor unit

| Model                                       |                           |                       | AIS60X1i R14               |                |  |
|---|---------------------------|-----------------------|----------------------------|----------------|--|
| EAN Code                                    |                           |                       | 5905567602832              |                |  |
| Operation modes                             |                           |                       | Heating and cooling        |                |  |
| Leaving water temperature                   | Space cooling             | °C                    | 7-25                       |                |  |
|   | Space heating             | °C                    | 25-65                      |                |  |
|   | DHW (tank)                | °C                    | 25-60                      |                |  |
| Power supply                                |                           | V-Hz, Ø               | 220-240-50, 1f             |                |  |
| Rated input                                 |                           | W                     | 3090                       |                |  |
| Operating current                           |                           | A                     | 13,9                       |                |  |
| Sound power level                           |                           | dB                    | 42                         |                |  |
| Electric heater                             | Power supply              | V-Hz, Ø               | 220-240-50, 1f             |                |  |
|   | Number of heating stages  | pcs                   | 1                          |                |  |
|   | Power                     | kW                    | 3                          |                |  |
|   | Maximum operating current | A                     | 13,6                       |                |  |
| Net dimensions                              |                           | (W x D x H)           | mm                         |                |  |
| Gross dimensions                            |                           | (W x D x H)           | mm                         |                |  |
| Net weight / Gross weight                   |                           |                       | kg                         |                |  |
| 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                |                |  |
| Refrigerant circuit                         |                           | Liquid / Gas          | mm                         | Ø6,35 / Ø15,88 |  |
| Minimal wire pcs and dimension of cords*    |                           | pcs × mm <sup>2</sup> | 3 × 2,5                    |                |  |
| Control cables: indoor unit to outdoor unit |                           | pcs × mm <sup>2</sup> | 2 × 0,75 (shielded cable)  |                |  |

# Specification outdoor unit

| Model  |   |                       | AISG60X1o R14                      |                |
|--|---|-----------------------|------------------------------------|----------------|
| EAN Code   |   |                       | 5905567602627                      |                |
| Power supply   |   | V-Hz, Ø               | 220-240-50, 1f                     |                |
| Heating (A7/W35)   | Capacity  | kW                    | 6,00                               |                |
|  | Rated input   | kW                    | 1,23                               |                |
|  | COP   |                       | 4,89                               |                |
| Heating (A7/W45)   | Capacity  | kW                    | 6,10                               |                |
|  | Rated input   | kW                    | 1,70                               |                |
|  | COP   |                       | 3,58                               |                |
| Heating (A7/W55)   | Capacity  | kW                    | 6,20                               |                |
|  | Rated input   | kW                    | 2,18                               |                |
|  | COP   |                       | 2,84                               |                |
| Cooling (A35/W18)  | Capacity  | kW                    | 6,20                               |                |
|  | Rated input   | kW                    | 1,29                               |                |
|  | EER   |                       | 4,81                               |                |
| Cooling (A35/W7)   | Capacity  | kW                    | 6,00                               |                |
|  | Rated input   | kW                    | 2,04                               |                |
|  | EER   |                       | 2,94                               |                |
| Seasonal energy efficiency LWT at 35°C                                     | SCOP <sup>(1)</sup>   |                       | 4,90                               |                |
|  | Rated heat output   | kW                    | 5,9                                |                |
|  | Seasonal energy efficiency ratio (η <sub>s</sub> )            | %                     | 193                                |                |
|  | Annual energy consumption                                     | kWh                   | 2488                               |                |
|  | Seasonal space heating energy efficiency class <sup>(1)</sup> |                       | A+++                               |                |
| Seasonal energy efficiency LWT at 55°C                                     | SCOP <sup>(1)</sup>   |                       | 3,36                               |                |
|  | Rated heat output   | kW                    | 5,4                                |                |
|  | Seasonal energy efficiency ratio (η <sub>s</sub> )            | %                     | 131                                |                |
|  | Annual energy consumption                                     | kWh                   | 3443                               |                |
|  | Seasonal space heating energy efficiency class <sup>(1)</sup> |                       | A++                                |                |
| SEER   | LWT at 7°C  |                       | 5,27                               |                |
|  | LWT at 18°C   |                       | 8,34                               |                |
| Minimum rated current of the overcurrent circuit breaker with breaker type |   | A                     | B16                                |                |
| Compressor   |   | Type                  | Twin rotary inverter compressor DC |                |
| Fan  |   | Type                  | Brushless DC motor / BLDC          |                |
| Refrigerant  |   | Quantity              | 1                                  |                |
|  |   | Type                  | R32                                |                |
|  |   | GWP                   | 675                                |                |
| Pipe connections   |   | Quantity              | kg                                 | 1,40           |
|  |   | TCO <sub>eq</sub>     |                                    | 0,945          |
| Pipe connections   | Liquid / Gas  |                       | mm                                 | Ø6,35 / Ø15,88 |
|  | Minimum installation length                                   |                       | m                                  | 3              |
|  | Maximum installation length                                   |                       | m                                  | 15             |
|  | Additional amount of refrigerant for over 7,5 linear meters   |                       | g/m                                | 20             |
| Maximum height difference  | Outdoor unit above the indoor unit                            |                       | m                                  | 8              |
|  | Outdoor unit below the indoor unit                            |                       | m                                  | 8              |
| Minimal wire pcs and dimension of cords*                                   |   | pcs × mm <sup>2</sup> | 3 × 2,5                            |                |
| Control cables: indoor unit to outdoor unit                                |   | pcs × mm <sup>2</sup> | 2 × 0,75 (shielded)                |                |
| Bracket spacing  |   | (W1 × D)              | mm                                 |                |
| Sound pressure level   |   | dB(A)                 | 45                                 |                |
| Sound power level  |   | dB(A)                 | 58                                 |                |
| Net dimensions   |   | (W x D x H)           | mm                                 |                |
| Gross dimensions   |   | (W x D x H)           | mm                                 |                |
| Net weight / Gross weight  |   |                       | kg                                 |                |
| Operating outdoor temperature  | Cooling/ Heating  | °C                    | -5-43 / -25-35                     |                |
|  | DHW   | °C                    | -25-43                             |                |

(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 I<sub>Δn</sub>: 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.