

# ES V6 Air-to-Water Heat Pumps

## AWST R32-M – 6, 9, 12 & 15 kW Monobloc Series

### Economic and effective air-to-water heat pump, designed for a Nordic climate

- User-friendly touch display
- Built in WiFi, enables control and monitoring the heat pump from computer or smart device
- Two different temperature zone setting
- Automatic restart in case of a power failure
- 6, 9, 12 and 15 kW heating capacity
- Operates in conditions down to  $-25^{\circ}\text{C}$
- Low investment – short payback time
- Low noise outdoor unit
- New eco-friendly refrigerant R32 enables A+++
- Anti-freeze protection device
- Inbuild electric heater for DHW and heating



#### User-friendly touch screen interface

The interface enables quick adjustment of all temperature settings directly from the front page. The software also supports variable temperature settings (curve) for both heating and cooling.



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### Monobloc Series

#### Converts energy from the outdoor air to heat and domestic hot water

By utilising the energy from outdoor air, you can reduce your energy bills in an eco-friendly way, and at the same time creating the perfect level of comfort for your home. AWT-R32-M V6 is designed to replace or supplement an existing heat source or for new installations. The indoor unit has a stylish design to fit into a modern home. All connections are easily accessible at the top of the unit.

#### Designed to provide maximum energy savings and quiet operation

By using components from leading suppliers (see table) and smart control, great energy savings and quiet operation are made possible. All AW-R32-M V6 series are rated A+++.

#### Simple and cost-effective installation

In a monobloc system the outdoor unit has a closed refrigerant circuit and a heat exchanger.

The outdoor unit can be connected directly to the heating system, which means that no refrigeration technicians are needed during installation. The automatic and self-learning defrost function, combined with the nano-coated evaporator, reduces defrosting time to a minimum and increases the efficiency.

#### Control your heating system

AWT-R32-M V6 can be controlled locally or remotely through smartphone or computer. Make all the necessary settings for an efficient, trouble-free operation with the new user-friendly touch display. Even when you are not at home you have full control of your heating system through your smartphone or computer.

#### Two heating curves

AWT-R32-M V6 uses a heat curve to provide a constant indoor temperature, regardless of the outdoor temperature. When the

outdoor temperature drops, the heat pump raises the temperature of the water to the heating system and vice versa when the outdoor temperature rises. Different heating systems require different temperatures, e.g. floor heating and radiators. AWT-R32-M V6 have the possibility to set two heating curves if you have two different heating systems in your home. With two heating curves the possibilities to save even more energy is possible and, in some cases, costs on components that would otherwise have to be installed in the system.

#### 250 liters hot water tank

The integrated tank for domestic hot water heating is 250 liters and heated by the heat pump. If the temperature drops, the heat pump changes the operating status and starts the production of hot water. If additional power is required, the integrated electric heaters will be used as back-up.

|  |                   | AWST6 R32-M                    | AWST9 R32-M         | AWST12 R32-M        | AWST15 – R32M       |                   |
|--|-------------------|--------------------------------|---------------------|---------------------|---------------------|-------------------|
| Min/max heating capacity (1)                       | kW                | 3,50 / 6,50                    | 4,30 / 9,20         | 5,50 / 11,60        | 6,00 / 15,30        |                   |
| El. Heating power input min/max (1)                | W                 | 758 / 1410                     | 927 / 2097          | 1107 / 2683         | 1223 / 3209         |                   |
| C.O.P min/max (1)                                  | W/W               | 4,5 / 4,7                      | 4,38 / 4,71         | 4,30 / 4,90         | 4,78 / 5,06         |                   |
| Min/max heating capacity (2)                       | kW                | 3,15 / 6,00                    | 3,90 / 8,60         | 4,90 / 11,20        | 5,60 / 14,30        |                   |
| El. Heating power input min/max (2)                | W                 | 943 / 1732                     | 1162 / 2550         | 1401 / 3263         | 1551 / 3914         |                   |
| C.O.P min/max (2)                                  | W/W               | 3,34 / 3,56                    | 3,37 / 3,58         | 3,30 / 3,50         | 3,60 / 3,82         |                   |
| SCOP – Average climate, low temperature            | W/W               | 4,74                           | 4,73                | 4,71                | 4,98                |                   |
| Min/max cooling capacity (3)                       | kW                | 3,50 / 4,50                    | 4,90 / 7,20         | 4,90 / 9,50         | 4,50 / 13,00        |                   |
| El. cooling power input min/max (3)                | W                 | 1330 / 1680                    | 1451 / 2366         | 1358 / 2444         | 2590 / 4390         |                   |
| E.E.R. min/max (3) Energy class                    | W/W               | 2,50 / 2,74                    | 2,80 / 3,10         | 2,60 / 3,50         | 2,96 / 3,26         |                   |
| Energy class                                       |                   | A+++                           | A+++                | A+++                | A+++                |                   |
| Defrost upon demand                                |                   | Yes                            | Yes                 | Yes                 | Yes                 |                   |
| Heating cable for defrost. /Anti-freeze protection |                   | Yes / Yes                      | Yes / Yes           | Yes / Yes           | Yes / Yes           |                   |
| Compressor pre-heat                                |                   | Yes                            | Yes                 | Yes                 | Yes                 |                   |
| Electronic expansion valve                         |                   | Yes                            | Yes                 | Yes                 | Yes                 |                   |
| ErP approved circulation pump / flow switch        |                   | Yes / Yes (outdoor)            | Yes / Yes (outdoor) | Yes / Yes (outdoor) | Yes / Yes (outdoor) |                   |
| Compressor   |                   | Mitsubishi                     |                     |                     |                     |                   |
| Fan  | Manufacturer      | Yibisi                         | Shunwei             | Shunwei             | Shunwei             |                   |
|  | Quantity          | pcs                            | 1                   | 1                   | 2                   |                   |
|  | Airflow           | m³/h                           | 2500                | 3150                | 3150                | 6200              |
|  | Rated power       | W                              | 34                  | 45                  | 45                  | 90                |
| Sound pressure level                               | Outdoor 0 m / 5 m | dB (A)                         | 52 / 30             | 53 / 31             | 52 / 30             | 58 / 36           |
| Plate heat exchanger                               | Manufacturer      | SWEP                           |                     |                     |                     |                   |
|  | Water press. drop | kPa                            | 26                  | 26                  | 26                  | 26                |
|  | Piping connection | Inch                           | G1"                 | G1"                 | G1"                 | 5/4"              |
| Allowable water flow                               | Min / Nominal     | l/s                            | 0,21 / 0,28         | 0,26 / 0,43         | 0,40 / 0,56         | 0,62 / 0,72       |
| Residual current device and overvoltage protection | Required          |                                |                     |                     |                     |                   |
| Power supply, grounded                             | V / Hz / A        | 400V/3PH/50Hz or 230V/3PH/50Hz |                     |                     |                     |                   |
| Electric heater heating, domestic hot water        | kW                | 9 (3X3) / 0,5                  | 9 (3X3) / 0,5       | 9 (3X3) / 0,5       | 9 (3X3) / 0,5       |                   |
| Refrigerant  | R32               |                                |                     |                     |                     |                   |
| Dimensions (L x D x H)                             | Outdoor unit      | mm                             | 1010 x 370 x 735    | 1165 x 370 x 885    | 1165 x 370 x 885    | 1085 x 390 x 1450 |
|  | Indoor unit       | mm                             | 600 x 680 x 1780    |                     |                     |                   |
| Net weight   | Outdoor unit      | kg                             | 67                  | 80                  | 85                  | 120               |
|  | Indoor unit       | kg                             | 125                 |                     |                     |                   |
| Article number indoor/outdoor                      |                   | 120296 / 120290                | 120296 / 120291     | 120296 / 120292     | 120296 / 120293     |                   |

(1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/WB 6°C (2) Heating condition: water inlet/outlet temperature: 40°C/45°C, Ambient temperature: DB 7°C/WB 6°C (3) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: DB 35°C/WB 34°C

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