

# Daikin Altherma 3 R F

## Floor standing air to water heat pump for heating and hot water

- > A combined stainless steel domestic hot water tank of 180 or 230L and heat pump for easy installation
- > Inclusion of all hydraulic components means no third party components are required
- > PCB board and hydraulic components are located in the front for easy access
- > Small installation footprint of 595 x 634 mm
- > Integrated back-up heater of 6 or 9 kW
- > Heat pump operation down to -25°C



| Efficiency data                                     |                                   |  |   | EBVH + ERLA           | 11S18D6V/9W + 11DV/W                          | 11S23D6V/9W + 11DV/W | 16S18D6V/9W + 14DV/W | 16S23D6V/9W + 14DV/W | 16S18D6V/9W + 16DV/W | 16S23D6V/9W + 16DV/W |
|---|-----------------------------------|--|---|-----------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|
| Space heating                                       | Average climate water outlet 55°C | General                                    | SCOP  |                       | 3,23  |                      | 3,22                 |                      | 3,32                 |                      |
|   |                                   |  | η <sub>sp</sub> (Seasonal space heating efficiency) | %                     | 126   |                      | 130                  |                      |                      |                      |
|   | Seasonal space heating eff. class |  |   |                       | A++   |                      |                      |                      |                      |                      |
|   | Average climate water outlet 35°C | General                                    | SCOP  |                       | 4,63  |                      | 4,60                 |                      | 4,61                 |                      |
| η <sub>sp</sub> (Seasonal space heating efficiency) |                                   |  | %   | 182                   | 181   |                      |                      |                      |                      |                      |
| Seasonal space heating eff. class                   |                                   |  |   | A+++                  |   |                      |                      |                      |                      |                      |
| Domestic hot water heating                          | General                           | Declared load profile                      |   | L                     | XL  | L                    | XL                   | L                    | XL                   |                      |
|   |                                   | Average COP <sub>dhw</sub>                 |   | 2,73                  | 2,63  | 2,73                 | 2,63                 | 2,73                 | 2,63                 |                      |
|   |                                   | η <sub>wh</sub> (water heating efficiency) | %   | 116                   | 109   | 116                  | 109                  | 116                  | 109                  |                      |
|   |                                   | Water heating energy efficiency class      |   |                       | A+  | A                    | A+                   | A                    | A+                   | A                    |
| Indoor Unit   |                                   |  |   | EBVH                  | 11S18D6V/9W                                   | 11S23D6V/9W          | 16S18D6V/9W          | 16S23D6V/9W          | 16S18D6V/9W          | 16S23D6V/9W          |
| Casing  | Colour                            |  |   | White + Black         |   |                      |                      |                      |                      |                      |
|   | Material                          |  |   | Precoated sheet metal |   |                      |                      |                      |                      |                      |
| Dimensions  | Unit                              | HeightxWidthxDepth                         |   | mm                    | 1,655x595x634                                 | 1,855x595x634        | 1,655x595x634        | 1,655x595x634        | 1,655x595x634        | 1,855x595x634        |
| Weight  | Unit                              |  |   | kg                    | 124   | 133                  | 124                  | 133                  | 124                  | 133                  |
| Tank  | Water volume                      |  |   | l                     | 180   | 230                  | 180                  | 230                  | 180                  | 230                  |
|   | Maximum water temperature         |  |   | °C                    | 70  |                      |                      |                      |                      |                      |
|   | Maximum water pressure            |  |   | bar                   | 10  |                      |                      |                      |                      |                      |
|   | Corrosion protection              |  |   |                       | Pickling                                      |                      |                      |                      |                      |                      |
| Operation range                                     | Heating                           | Ambient                                    | Min.~Max.   | °C                    | -25 ~ 35                                      |                      |                      |                      |                      |                      |
|   |                                   | Water side                                 | Min.~Max.   | °C                    | 18 ~ 60                                       |                      |                      |                      |                      |                      |
|   | Domestic hot water                | Ambient                                    | Min.~Max.   | °C                    | -25 ~ 35                                      |                      |                      |                      |                      |                      |
|   |                                   | Water side                                 | Min.~Max.   | °C                    | 10 ~ 60                                       |                      |                      |                      |                      |                      |
| Sound power level                                   | Nom.                              |  |   | dBA                   | 44  |                      |                      |                      |                      |                      |
| Sound pressure level                                | Nom.                              |  |   | dBA                   | 30  |                      |                      |                      |                      |                      |
| Outdoor Unit  |                                   |  |   | ERLA                  | 11DV3/W1                                      | 14DV3/W1             | 16DV3/W1             |                      |                      |                      |
| Dimensions  | Unit                              | HeightxWidthxDepth                         |   | mm                    | 870x1100x460                                  |                      |                      |                      |                      |                      |
| Weight  | Unit                              |  |   | kg                    | 101   |                      |                      |                      |                      |                      |
| Compressor  | Quantity                          |  |   |                       | 1   |                      |                      |                      |                      |                      |
|   | Type                              |  |   |                       | Hermetically sealed swing inverter compressor |                      |                      |                      |                      |                      |
| Operation range                                     | Heating                           | Min.~Max.                                  |   | °CDB                  | -25 ~ 35                                      |                      |                      |                      |                      |                      |
|   | Cooling                           | Min.~Max.                                  |   | °CDB                  | 10 ~ 43                                       |                      |                      |                      |                      |                      |
|   | Domestic hot water                | Min.~Max.                                  |   | °CDB                  | -25 ~ 35                                      |                      |                      |                      |                      |                      |
| Refrigerant   | Type                              |  |   |                       | R-32  |                      |                      |                      |                      |                      |
|   | GWP                               |  |   |                       | 675   |                      |                      |                      |                      |                      |
|   | Charge                            |  |   | kg                    | 3,80  |                      |                      |                      |                      |                      |
|   | Charge                            |  |   | TCO <sub>2</sub> /Eq  | 2,57  |                      |                      |                      |                      |                      |
|   | Control                           |  |   |                       | Expansion valve                               |                      |                      |                      |                      |                      |
| LW(A) Sound power level (according to EN14825)      |                                   |  |   |                       | 62  |                      |                      |                      |                      |                      |
| Sound pressure level (at 1 meter)                   | Nom.                              |  |   |                       | 48  |                      |                      |                      |                      |                      |
| Power supply  | Name/Phase/Frequency/Voltage      |  |   | Hz/V                  | V3/1~/50/230 / W1/3~/50/400                   |                      |                      |                      |                      |                      |
| Current   | Recommended fuses                 |  |   | A                     | 32/16   |                      |                      |                      |                      |                      |

This product contains fluorinated greenhouse gases.