

# Physical data, 30RB units

| 30RB  |       | 017               | 021     | 026                                 | 033                                | 040     |
|---|-------|-------------------|---------|-------------------------------------|------------------------------------|---------|
| <b>Air conditioning application as per EN14511-3:2013*</b>  |       |                   |         |                                     |                                    |         |
| <b>Condition 1</b>  |       |                   |         |                                     |                                    |         |
| Nominal cooling capacity  | kW    | 16.4              | 21.4    | 27.3                                | 33.3                               | 41.4    |
| EER   | kW/kW | 3.04              | 3.11    | 3.08                                | 3.28                               | 2.96    |
| Eurovent class, cooling   |       | B                 | A       | B                                   | A                                  | B       |
| ESEER   | kW/kW | 3.46              | 3.47    | 3.44                                | 3.62                               | 3.29    |
| <b>Condition 2</b>  |       |                   |         |                                     |                                    |         |
| Nominal cooling capacity  | kW    | 22.7              | 29.5    | 38.6                                | 45.8                               | 56.9    |
| EER   | kW/kW | 3.80              | 3.86    | 4.01                                | 4.11                               | 3.52    |
| <b>Air conditioning application**</b>   |       |                   |         |                                     |                                    |         |
| <b>Condition 1</b>  |       |                   |         |                                     |                                    |         |
| Nominal cooling capacity  | kW    | 16.6              | 21.6    | 27.7                                | 33.6                               | 41.6    |
| EER   | kW/kW | 3.15              | 3.25    | 3.24                                | 3.45                               | 3.03    |
| <b>Condition 2</b>  |       |                   |         |                                     |                                    |         |
| Nominal cooling capacity  | kW    | 22.9              | 29.9    | 39.2                                | 46.5                               | 57.3    |
| EER   | kW/kW | 4.03              | 4.12    | 4.37                                | 4.46                               | 3.65    |
| <b>Operating weight***</b>  |       |                   |         |                                     |                                    |         |
| Standard unit, with/without hydronic module   | kg    | 189/173           | 208/193 | 255/237                             | 280/262                            | 291/273 |
| <b>Sound power level****</b>  |       |                   |         |                                     |                                    |         |
| Sound power level†  | dB(A) | 72                | 74      | 78                                  | 78                                 | 80      |
| Sound pressure level†   | dB(A) | 40                | 42      | 46                                  | 46                                 | 48      |
| <b>Dimensions</b>   |       |                   |         |                                     |                                    |         |
| Length x depth x height   | mm    | 1136 x 584 x 1579 |         | 1002 x 824 x 1790                   |                                    |         |
| <b>Compressor</b>   |       |                   |         |                                     |                                    |         |
| One hermetic scroll compressor  |       |                   |         |                                     |                                    |         |
| <b>Refrigerant charge R-410A</b>  |       |                   |         |                                     |                                    |         |
|   | kg    | 5.5               | 6.4     | 5.8                                 | 8.6                                | 8.8     |
| <b>Control</b>  |       |                   |         |                                     |                                    |         |
| Pro-Dialog+   |       |                   |         |                                     |                                    |         |
| <b>Fans</b>   |       |                   |         |                                     |                                    |         |
|   |       |                   |         | Two twin-speed axial fans, 3 blades | One twin-speed axial fan, 7 blades |         |
| Diameter  | mm    | 495               | 495     | 710                                 | 710                                | 710     |
| Air flow  | l/s   | 2212              | 2212    | 3530                                | 3530                               | 3530    |
| Speed   | r/s   | 14.5              | 14.5    | 15                                  | 15                                 | 15      |
| <b>Water heat exchanger</b>   |       |                   |         |                                     |                                    |         |
| Plate heat exchanger, maximum operating pressure 1000 kPa   |       |                   |         |                                     |                                    |         |
| Water volume  | l     | 1.52              | 1.9     | 2.28                                | 2.85                               | 3.8     |
| <b>Air heat exchanger</b>   |       |                   |         |                                     |                                    |         |
| Copper tubes and aluminium fins   |       |                   |         |                                     |                                    |         |
| Pipe diameter   | in    | 3/8               | 3/8     | 3/8                                 | 3/8                                | 3/8     |
| Number of rows  |       | 2                 | 2       | 2                                   | 3                                  | 3       |
| Number of pipes per row   |       | 60                | 60      | 60                                  | 60                                 | 60      |
| Fin spacing   | mm    | 1.69              | 1.69    | 1.69                                | 1.69                               | 1.69    |
| <b>Standard unit</b>  |       |                   |         |                                     |                                    |         |
| Water connections (MPT gas)   | in    | 1                 | 1       | 1-1/4                               | 1-1/4                              | 1-1/4   |
| <b>Unit with hydronic module**</b>  |       |                   |         |                                     |                                    |         |
| Pump, screen filter, expansion tank, flow switch, pressure gauge, automatic air purge valve, safety valve |       |                   |         |                                     |                                    |         |
| Pump  |       |                   |         |                                     |                                    |         |
| One single-speed pump, maximum water-side operating pressure 400 kPa                                      |       |                   |         |                                     |                                    |         |
| Expansion tank capacity   | l     | 5                 | 5       | 8                                   | 8                                  | 8       |
| Entering water connection   | in    | 1-1/4             | 1-1/4   | 1-1/4                               | 1-1/4                              | 1-1/4   |
| Leaving water connection  | in    | 1                 | 1       | 1-1/4                               | 1-1/4                              | 1-1/4   |
| Nominal operating current**   | A     | 1.30              | 1.40    | 2.40                                | 2.60                               | 2.8     |
| <b>Chassis paint colour</b>   |       |                   |         |                                     |                                    |         |
| Beige   |       |                   |         |                                     |                                    |         |

\* Eurovent-certified performances in accordance with standard EN14511-3:2013.

Condition 1: Cooling mode conditions: evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fouling factor 0 m<sup>2</sup> K/W  
Condition 2: Cooling mode conditions: evaporator water entering/leaving temperature 23°C/18°C, outside air temperature 35°C, evaporator fouling factor 0 m<sup>2</sup> K/W

\*\* Gross performances, not in accordance with EN14511-3:2013. These performances do not take into account the correction for the proportional heating capacity and power input generated by the water pump to overcome the internal pressure drop in the heat exchanger.

Condition 1: Cooling mode conditions: evaporator water entering/leaving temperature 12°C/7°C, outside air temperature 35°C, evaporator fouling factor 0 m<sup>2</sup> K/W  
Condition 2: Cooling mode conditions: evaporator water entering/leaving temperature 23°C/18°C, outside air temperature 35°C, evaporator fouling factor 0 m<sup>2</sup> K/W

\*\*\* Weight shown is a guideline only. To find out the unit refrigerant charge, please refer to the unit nameplate.

\*\*\*\* Declared dualnumber noise emission values in accordance with ISO 4871 (with an associated uncertainty of +3dB).

† For information, calculated from the sound power level Lw(A)