



RAD-RPA

## Ducted In the Ceiling

| Indoor Unit   |                   | RAD-25RPA                   | RAD-35RPA                   | RAD-50RPA                   |
|---|-------------------|-----------------------------|-----------------------------|-----------------------------|
| Nominal Cooling Capacity (min - max)                        | kW                | 2.5 (0.9 - 3.0)             | 3.5 (0.9 - 4.0)             | 5.0 (0.9 - 5.6)             |
| Cooling Sensible Capacity                                   | kW                | 2.0                         | 2.5                         | 3.8                         |
| UK Cooling Capacity (sensible)                              | kW                | 2.3 (1.8)                   | 3.2 (2.2)                   | 4.1 (3.0)                   |
| Nominal Heating Capacity (min - max)                        | kW                | 3.5 (0.9 - 5.5)             | 4.8 (0.9 - 6.6)             | 6.0 (0.9 - 7.5)             |
| Heating Capacity at -7°C <sup>(1)</sup>                     | kW                | 2.3                         | 3.1                         | 3.6                         |
| Nominal Cooling Power Input (min - max)                     | kW                | 0.69 (0.15 - 1.05)          | 1.24 (0.15 - 1.28)          | 2.00 (0.15 - 2.06)          |
| Nominal Heating Power Input (min - max)                     | kW                | 0.97 (0.11 - 1.40)          | 1.70 (0.11 - 1.92)          | 2.30 (0.11 - 2.53)          |
| Seasonal Efficiency SEER <sup>(3)</sup>                     |                   | 5.1                         | 5.1                         | 4.7                         |
| Energy Efficiency Class                                     |                   | A                           | A                           | B                           |
| Annual Energy Consumption                                   | kWh/yr            | 180                         | 240                         | 380                         |
| Seasonal Efficiency SCOP <sup>(3)</sup> (Average Climate)   |                   | 3.8                         | 3.8                         | 3.8                         |
| Energy Efficiency Class                                     |                   | A                           | A                           | A                           |
| Annual Energy Consumption                                   | kWh/yr            | 960                         | 1,280                       | 1,560                       |
| Nominal Load Efficiency EER / COP <sup>(4)</sup>            |                   | 3.60 / 3.61                 | 2.82 / 2.82                 | 2.50 / 2.61                 |
| Energy Class (Cool/Heat)                                    |                   | A / A                       | C / D                       | E / E                       |
| Noise Level Cooling (sound pressure) (SL / L / M / H)       | dB(A)             | 29/31/34/36                 | 29/31/34/36                 | 29/32/35/38                 |
| Noise Level Heating (sound pressure) (SL / L / M / H)       | dB(A)             | 27/30/33/37                 | 27/30/33/37                 | 29/32/35/38                 |
| Noise level (sound power) <sup>(2)</sup>                    | dB(A)             | 57                          | 57                          | 58                          |
| Air flow cooling mode (SL / L / M / H)                      | m <sup>3</sup> /h | 330/390/450/510             | 330/390/450/510             | 330/360/450/510             |
| Air flow heating mode (SL / L / M / H)                      | m <sup>3</sup> /h | 360/420/480/600             | 360/420/480/600             | 360/420/480/630             |
| Static pressure (SL / L / M / H) (nominal conditions SP 00) | Pa                | tbc                         | tbc                         | tbc                         |
| Dehumidification  | l/h               | 1.4                         | 2.1                         | 2.8                         |
| Dimensions (H x W x D)                                      | mm                | 235x750x400                 | 235x750x400                 | 235x750x400                 |
| Weight  | kg                | 19.0                        | 19.0                        | 19.0                        |
| Included drain pump   |                   | yes                         | yes                         | yes                         |
| Power Supply  |                   | 35V DC from outdoor unit    | 35V DC from outdoor unit    | 35V DC from outdoor unit    |
| Drain Diameter (ext)  |                   | φ16mm                       | φ16mm                       | φ16mm                       |
| Remote Controller (not included)                            |                   | Wired or wireless available | Wired or wireless available | Wired or wireless available |

| Outdoor Unit                                      |                   | RAC-25NPA               | RAC-35NPA               | RAC-50NPA               |
|---|-------------------|-------------------------|-------------------------|-------------------------|
| Noise level cooling (sound pressure) (night mode) | dB(A)             | 46                      | 47                      | 50                      |
| Noise level heating (sound pressure) (night mode) | dB(A)             | 46                      | 49                      | 52                      |
| Noise level (sound power) <sup>(2)</sup>          | dB(A)             | 65                      | 65                      | 65                      |
| Air flow (Cooling / Heating)                      | m <sup>3</sup> /h | 1620 / 1620             | 1620 / 1620             | 2160 / 2160             |
| Dimensions (H x W x D)                            | mm                | 570x750x280             | 570x750x280             | 650x850x298             |
| Weight  | kg                | 38.0                    | 38.0                    | 45.0                    |
| Piping diameter (Liquid / Gas)                    | Inch              | 1/4 - 3/8               | 1/4 - 3/8               | 1/4 / 1/2               |
|   | mm                | 6.35 - 9.52             | 6.35 - 9.52             | 6.35 - 12.70            |
| Minimum Piping Length                             | m                 | 5                       | 5                       | 5                       |
| Maximum Piping Length / Height Difference         | m                 | 20 / 10                 | 20 / 10                 | 20 / 10                 |
| Current Quantity of Refrigerant                   | kg                | 1.15                    | 1.15                    | 1.40                    |
| Chargeless / Additional Refrigerant Charge        | m / g/m           | 20 / -                  | 20 / -                  | 20 / -                  |
| Power supply                                      |                   | AC 220-240V/1ph/50Hz    | AC 220-240V/1ph/50Hz    | AC 220-240V/1ph/50Hz    |
| Recommended fuse size                             | A                 | 16                      | 16                      | 16                      |
| Starting current                                  | A                 | 4.2                     | 4.2                     | 10.0                    |
| Running current (cooling / heating)               | A                 | 3.20-2.93 / 4.30-3.96   | 4.94-4.72 / 6.04-5.77   | 9.2-8.4 / 10.6-9.7      |
| Interconnecting Cables                            | No.               | 2 + E                   | 2 + E                   | 2 + E                   |
| Working Range (cooling / heating)                 | °C                | -10°C~43°C / -15°C~21°C | -10°C~43°C / -15°C~21°C | -10°C~43°C / -15°C~21°C |
| Refrigerant / GWP                                 |                   | R410A / 1975            | R410A / 1975            | R410A / 1975            |
| Compressor type                                   |                   | Twin Rotary             | Twin Rotary             | Twin Rotary             |

Pricing does not include a Remote Controller, see page 27 for wired or wireless remote controllers

<sup>1)</sup> Value includes the defrost ratio.

<sup>2)</sup> Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102

<sup>3)</sup> Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

<sup>4)</sup> Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)