

# Hitachi Air Conditioning

Engineered for tomorrow.



Room Air Conditioners

## Standard Floor Mounted RAF-RPA

The Hitachi range of DC Inverter Floor Mounted Split System air conditioners, have been developed to provide exceptional comfort, easy operation, substantial power savings and full automatic control for homes, apartments, shops, offices and small buildings.



### Features and Benefits

- ✔ Capacities from 2.5kW to 6.0kW
- ✔ Compatible with H-LINK control and CS Net Web
- ✔ Compact and stylish design
- ✔ Low noise levels courtesy of Super Low fan speed
- ✔ Nano Titanium air purifying filter
- ✔ High seasonal efficiency
- ✔ Stainless steel pre-filter as standard.

### High air quality

Cutting edge Hitachi nano-titanium filters are fitted as standard which help to eliminate odours and remove dust particles from the air. Titanium oxide has been used as a photocatalyst for many years but Hitachi has now enhanced it by reducing its size to a nanometer – over 1,000 times smaller than ordinary bacterial agents. This ultrafine catalyst can, therefore, catch smaller microbes or bacteria which may escape from other filters leading to higher air quality circulating around the room.



### ErP-compliant products

The Eco-Design of Energy-related products (ErP) Directive provides consistent EU-wide rules for improving the environmental performance of energy-related products (ErP) – ensuring reduced energy consumption to benefit both businesses and consumers.

Hitachi has always engineered the most environmentally-friendly heating and cooling products from its factories, and is delighted that its new product ranges exceed the 2014 ErP Lot 10 standards.

## Remote Controllers

NEW

- ✔ **RAR-5E2**  
24-hour, 7-day infra red Remote Controller



RAR-5E2

- ✔ ECO operation energy saving function
- ✔ Leave Home Function - set temperature at 10°C automatically when no one is at home for up to 99 days
- ✔ Weekly Timer – 6 patterns
- ✔ Heating/Cooling Only operation – 2 ways of setting
- ✔ Room temperature display.

- ✔ **SPX-RCDB**  
Wired Remote Controller



SPX-RCDB



RAF-RPA



Room Air Conditioners

## Standard floor mounted

| Indoor Unit   |                   | RAF-25RPA                | RAF-35RPA                | RAF-50RPA                |
|---|-------------------|--------------------------|--------------------------|--------------------------|
| Nominal Cooling Capacity (min - max)                      | kW                | 2.5 (0.9 - 3.1)          | 3.5 (1.1 - 4.2)          | 5.0 (1.9 - 5.2)          |
| Cooling Sensible Capacity                                 | kW                | 2.3                      | 2.9                      | 3.8                      |
| UK Cooling Capacity (sensible)                            | kW                | 2.1 (1.9)                | 2.9 (2.5)                | 4.2 (3.2)                |
| Nominal Heating Capacity (min - max)                      | kW                | 3.4 (0.9 - 4.4)          | 4.2 (1.1 - 5.2)          | 6.0 (2.2 - 7.3)          |
| Heating Capacity at -7°C <sup>(1)</sup>                   | kW                | 2.2                      | 2.7                      | 3.9                      |
| Nominal Cooling Power Input (min - max)                   | kW                | 0.67 (0.25 - 1.29)       | 0.94 (0.25 - 1.40)       | 1.51 (0.50 - 2.10)       |
| Nominal Heating Power Input (min - max)                   | kW                | 0.85 (0.25 - 1.25)       | 1.05 (0.25 - 1.80)       | 1.66 (0.50 - 2.70)       |
| Seasonal Efficiency SEER <sup>(3)</sup>                   |                   | 5.80                     | 6.00                     | 5.86                     |
| Energy Efficiency Class                                   |                   | A+                       | A+                       | A+                       |
| Annual Energy Consumption                                 | kWh/yr            | 151                      | 202                      | 299                      |
| Seasonal Efficiency SCOP <sup>(3)</sup> (Average Climate) |                   | 4.30                     | 4.30                     | 4.00                     |
| Energy Efficiency Class                                   |                   | A+                       | A+                       | A+                       |
| Annual Energy Consumption                                 | kWh/yr            | 774                      | 989                      | 1,518                    |
| Nominal Load Efficiency EER / COP <sup>(4)</sup>          |                   | 3.73 / 4.00              | 3.72 / 4.00              | 3.31 / 3.61              |
| Energy Class (Cool/Heat)                                  |                   | A / A                    | A / A                    | A / A                    |
| Noise Level Cooling (sound pressure) (SL / L / M / H)     | dB(A)             | 23 / 26 / 32 / 40        | 25 / 29 / 35 / 42        | 25 / 30 / 37 / 46        |
| Noise Level Heating (sound pressure) (SL / L / M / H)     | dB(A)             | 23 / 27 / 33 / 40        | 26 / 30 / 35 / 42        | 25 / 30 / 37 / 47        |
| Noise level (sound power) <sup>(2)</sup>                  | dB(A)             | 54                       | 56                       | 60                       |
| Air flow cooling mode (SL / L / M / H)                    | m <sup>3</sup> /h | 378 / 462 / 540          | 400 / 485 / 600          | 430 / 530 / 650          |
| Air flow heating mode (SL / L / M / H)                    | m <sup>3</sup> /h | 408 / 498 / 600          | 440 / 525 / 600          | 470 / 570 / 720          |
| Dehumidification  | l/h               | 1.4                      | 1.6                      | 2.0                      |
| Dimensions (H x W x D)                                    | mm                | 600 x 760 x 235          | 600 x 760 x 235          | 600 x 760 x 235          |
| Weight  | Kg                | 14.0                     | 14.0                     | 14.0                     |
| Included drain pump                                       |                   | no                       | no                       | no                       |
| 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 (standard)                              |                   | infra red<br>RAR-5E2     | infra red<br>RAR-5E2     | infra red<br>RAR-5E2     |

| Outdoor Unit                                      |                   | RAC-25FPA               | RAC-35FPA               | RAC-50FPA               |
|---|-------------------|-------------------------|-------------------------|-------------------------|
| Noise Level Cooling (sound pressure) (night mode) | dB(A)             | 47                      | 48                      | 51                      |
| Noise Level Heating (sound pressure) (night mode) | dB(A)             | 49                      | 49                      | 52                      |
| Noise level (sound power) <sup>(2)</sup>          | dB(A)             | 61                      | 62                      | 65                      |
| Air flow (Cooling / Heating)                      | m <sup>3</sup> /h | 1860/1620               | 1920/1620               | 2160/2160               |
| Dimensions (H x W x D)                            | mm                | 548 x 750 x 288         | 548 x 750 x 288         | 600 x 792 x 299         |
| Weight  | Kg                | 31.0                    | 35.0                    | 40.0                    |
| 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                | 0.87                    | 1.05                    | 1.25                    |
| Chargeless / Additional Refrigerant Charge        | m/g/m             | 20 / -                  | 20 / -                  | 20 / -                  |
| Power supply                                      |                   | 230V / 1Ph / 50Hz       | 230V / 1Ph / 50Hz       | 230V / 1Ph / 50Hz       |
| Recommended fuse size                             | A                 | 16                      | 16                      | 16                      |
| Starting Current                                  | A                 | 5.0                     | 5.0                     | 9.0                     |
| Running Current (Cooling / Heating)               | A                 | 3.43 / 4.11             | 4.30 / 4.81             | 6.63 / 7.29             |
| 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                                   |                   | Rotary                  | Rotary                  | Rotary                  |

<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)