

# Hitachi Air Conditioning

Engineered for tomorrow.



## S-Series Wall Mounted RAK-PSB

The S-Series is perfect for healthcare and dental areas – where hygiene is top priority. It generates ionised mist to fight cross-infection and with low running costs it won't break the bank either. What's more, it's the most energy-efficient air conditioning range on the market and offers fantastic temperature control to ensure the comfort of patients and staff.

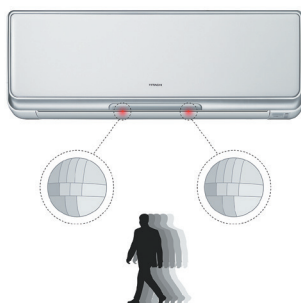


### Features and Benefits

- ✔ Capacities from 1.8kW to 3.5kW
- ✔ Internal cleaning functions control mould growth and remove dust from the micro mesh stainless filter – automatically
- ✔ Eco friendly - SCOP of up to 4.72 and SEER of up to 8.5
- ✔ Stainless clean surfaces and ionised mist eliminate odours and destroy 99% of airborne viruses and bacteria
- ✔ Energy saving sensors adjust heating and cooling levels as room occupancy changes
- ✔ Noise levels as low as 22dB(A).

### Energy saving sensor

The sensor adjusts heating and cooling levels as room occupancy changes allowing high energy savings.



## Remote Controllers



RAR-5W1

- ✔ **RAR-5W1**  
Wireless Remote Controller

- ✔ 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
- ✔ Temperature and monthly power consumption display
- ✔ Copy function to copy settings from one day to another
- ✔ Summer/Winter modes

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

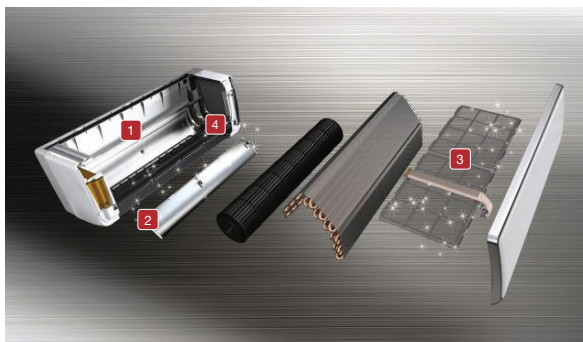


SPX-RCDB



### ErP-compliant products

ErP compliant, A++ to A+++ across the range



#### 1 Stainless Air Duct

Stainless material is used for the air duct located at the back of the fan. This has disinfection and antifouling effects, and keeps the interior of the air conditioner clean.

#### 2 Stainless Louver

Stainless material is used for the horizontal louver. This has disinfection and antifouling effects, and keeps the air outlet clean.

#### 3 Micro Mesh Stainless Filter

Contamination-resistant micro mesh stainless filter. Even greasy contaminants can be removed with a quick wipe. As it is stainless, it has a disinfection effect. With auto filter cleaning.

#### 4 Stainless Plasma Air Purification

Negative ions are emitted from the plasma electrode. The negative ions surround contaminants and effectively carry them to the micro mesh stainless filter, where they are captured.



RAK-PSB



Room Air Conditioners

## S-Series wall mounted

PRELIMINARY DATA

Indoor Unit		RAK-18PSB	RAK-25PSB	RAK-35PSB
Nominal Cooling Capacity (min - max)	kW	1.8 (0.5 - 2.8)	2.5 (0.5 - 3.4)	3.5 (0.5 - 4.1)
Cooling Sensible Capacity	kW	1.8	2.2	2.7
UK Cooling Capacity (sensible)	kW	1.9 (1.7)	2.7 (2.4)	4.3 (2.8)
Nominal Heating Capacity (min - max)	kW	2.3 (0.6 - 4.8)	3.2 (0.6 - 5.8)	4.0 (0.6 - 6.6)
Heating capacity at -7°C <sup>(1)</sup>	kW	1.71	2.37	2.67
Nominal cooling power input (min - max)	kW	0.30 (0.07 - 0.88)	0.47 (0.07 - 0.96)	0.805 (0.07 - 1.35)
Nominal heating power input (min - max)	kW	0.375 (0.065 - 1.620)	0.570 (0.065 - 2.250)	0.790 (0.065 - 2.450)
Seasonal Efficiency SEER <sup>(3)</sup>		7.41	8.5	8.5
Energy Efficiency Class		A++	A+++	A+++
Annual Energy Consumption	kWh/yr	85	tbc	tbc
Seasonal Efficiency SCOP <sup>(3)</sup> (Average Climate)		4.6	4.68	4.72
Energy Efficiency Class		A++	A++	A++
Annual Energy Consumption	kWh/yr	tbc	tbc	tbc
Nominal Load Efficiency EER / COP <sup>(4)</sup>		6.00 / 6.13	5.32 / 5.61	4.35 / 5.06
Energy Class (Cool/Heat)		A / A	A / A	A / A
Noise level cooling (sound pressure) (SL / L / M / H)	dB(A)	22/28/34/40	22/28/34/42	23/28/34/44
Noise level heating (sound pressure) (SL / L / M / H)	dB(A)	22/30/34/41	22/30/34/42	23/30/34/44
Noise level (sound power) <sup>(2)</sup>	dB(A)	54	56	58
Air flow cooling mode (SL / L / M / H)	m <sup>3</sup> /h	260/300/420/ 470	260/320/420/510	270/320/420/520
Air flow heating mode (SL / L / M / H)	m <sup>3</sup> /h	260/300/420/540	260/370/520/600	270/410/520/610
Dehumidification	l/h	1.2	1.4	1.6
Dimensions (H x W x D)	mm	295x798x258	295x798x258	295x798x258
Weight	Kg	12.0	12.0	12.0
Power supply		220-230V	220-230V	220-230V
Drain diameter (ext)		φ16mm	φ16mm	φ16mm
Remote Control (standard)		Infra red RAR-5W1	Infra red RAR-5W1	Infra red RAR-5W1

Outdoor Unit		RAC-18WSB	RAC-25WSB	RAC-35WSB
Noise level cooling (sound pressure) (night mode)	dB(A)	46	48	49
Noise level heating (sound pressure) (night mode)	dB(A)	46	48	49
Noise level (sound power) <sup>(2)</sup>	dB(A)	60	62	63
Air flow (Cooling / Heating)	m <sup>3</sup> /h	1860 / 1620	1860 / 1620	1920 / 1620
Dimensions (H x W x D)	mm	600x792x299	600x792x299	600x792x299
Weight	Kg	40	40	40
Piping diameter (Liquid / Gas)	Inch	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2
	mm	6.35 - 12.70	6.35 - 12.70	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	1.35	1.35	1.35
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	25	25	25
Starting current	A	2.3	3.4	4.5
Running current (cooling / heating)	A	1.89/2.27	2.81/3.37	4.63/4.54
Interconnecting Cables	No.	3 + E	3 + E	3 + E
Working Range (cooling / heating)	°C	-10°C~43°C / -20°C~21°C	-10°C~43°C / -20°C~21°C	-10°C~43°C / -20°C~21°C
Refrigerant / GWP		R410A / 1975	R410A / 1975	R410A / 1975
Compressor type		Scroll	Scroll	Scroll

<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)