

Hitachi Air Conditioning

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Room Air Conditioning



GENERAL CATALOGUE

HITACHI
Inspire the Next

Product Range

Room Air Conditioners		(kW)	2.0	2.5	3.5	5.0	6.0	7.1	8.0	9.0	10.0	
Wall Mounted	Summit		●	●	●	●	●	●				A+ SCOP 4.4
Wall Mounted	Shirokuma			●	●	●						A+ SCOP 4.3
Wall Mounted	S-series		●	●								A++ SCOP 4.7
Cassettes				●	●	●						A SCOP 3.8
Ducted In the Ceiling				●	●	●						A SCOP 3.8
Floor Mounted	Standard			●	●	●						A+ SCOP 4.3
Floor Mounted	Shirokuma			●	●	●						A+ SCOP 4.3
Multizone Multi Splits												
Outdoor Units (Qty IU)			● 2	● 2/3	● 3/4	● 5	● 6					A+ SCOP 4.0





Room Air Conditioners

	Wall Mounted			(600x600) Casette	Ducted In the Ceiling	Floor Mounted	
	Summit RAK 18~70PPA	Shirokuma RAK 25~50PXA	S-series RAS 18~35PSA	Monozone RAI 25~50RPA	Monozone RAD 25~50RPA	Standard RAF 25~50RPA	Shirokuma RAF 25~50PXA
Nominal Cooling Capacity (kW)	2.0 ~ 7.0	2.5 ~ 5.0	1.8 ~ 3.5	2.5 ~ 5.0	2.5 ~ 5.0	2.5 ~ 5.0	2.5 ~ 5.0
Nominal Heating Capacity (kW)	2.5 ~ 8.0	3.4 ~ 6.3	2.3 ~ 4.0	3.5 ~ 6.2	3.5 ~ 6.0	3.4 ~ 6.0	3.4 ~ 6.5
Seasonal Efficiency SEER ⁽¹⁾ (2)	6.8	6.0	8.5	5.8	5.1	6.0	6.4
Energy Efficiency Class ⁽²⁾	A++	A+	A+++	A+	A	A+	A++
Seasonal Efficiency SCOP ⁽¹⁾ (Average Climate)	4.4	4.3	4.7	3.8	3.8	4.3	4.2
Energy Efficiency Class ⁽²⁾	A++	A+	A++	A	A	A+	A++
Refrigerant / GWP	R410A / 1975	R410A / 1975	R410A / 1975	R410A / 1975	R410A / 1975	R410A / 1975	R410A / 1975
Operating Range (Cooling)	-10°C / +43°C	-10°C / +43°C	-10°C / +43°C	-10°C / +43°C	-10°C / +43°C	-10°C / +43°C	-10°C / +43°C
Operating Range (Heating)	-15°C / +21°C	-15°C / +21°C	-20°C / +21°C	-15°C / +21°C	-15°C / +21°C	-15°C / +21°C	-15°C / +21°C
Remote Controller Type	Infra Red	Infra Red	Infra Red	Infra Red	Not included	Infra Red	Infra Red

⁽¹⁾ Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01
⁽²⁾ Selected Models

Did you know?

In 1983, Hitachi became the first Scroll Compressor manufacturer and introduced the world's first DC Inverter room air conditioning unit.



Features and Benefits

Summit wall mounted

RAK-PPA

- Capacities from 2.0kW to 8.0kW
- Compatible with H-LINK control and CS Net Web
- Low noise levels courtesy of Super Low fan speed
- Wasabi air filter for high air quality
- High seasonal efficiency.

Shirokuma wall mounted

RAK-PXA

- Capacities from 2.5kW to 6.3kW
- Compatible with H-LINK control and CS Net Web
- SCOP of 4.24 (A++) and SEER of 5.95 (A+++)
for exceptional seasonal efficiency (3.5kW model)
- Elegant design complements any interior
- Low noise levels courtesy of Super Low fan speed
- Nano Titanium air filter for high air quality
- Weekly timer
- Compatible with H-LINK control and CS Net Web.

S-series wall mounted

RAK-PSA

- Capacities from 1.8kW to 4.0kW
- ErP compliant, A++ to A+++ across the range
- Internal cleaning functions control mould growth and remove dust from the micro mesh stainless filter – automatically
- 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 - and direction of airflow - as room occupancy changes
- Noise levels as low as 22dB(A).

Monozone cassette

RAI-RPA

- Capacities from 2.5kW to 6.2kW
- Compatible with H-LINK control and CS Net Web
- Mini 600 x 600 cassette design fits standard ceiling module, minimising installation work
- Built-in condensate drain pump
- Weekly timer
- Flexible 2-way, 3-way or 4-way air outlets with auto-oscillation.

Monozone Ducted In the ceiling

RAD-RPA

- Capacities from 2.5kW to 6.0kW
- Compatible with H-LINK control and CS Net Web
- Compact design
- Built-in condensate drain pump
- Noise levels as low as 20dBA at Super Low speed
- Nano Stainless pre-filter as standard
- Antibacterial Nano Titanium mesh filter.

Standard floor mounted

RAF-RPA

- 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
- Wasabi air filter for high air quality
- High seasonal efficiency
- Stainless steel pre-filter as standard.

Shirokuma floor mounted

RAF-PXA

- Capacities from 2.5kW to 6.5kW
- Compatible with H-LINK control and CS Net Web
- SCOP of 4.14 (A++) and SEER of 6.39 (A+++)
for exceptional seasonal efficiency (3.5kW model)
- Elegant design complements all interiors
- Low noise levels courtesy of Super Low fan speed
- Nano Titanium air filter for high air quality.



Wall Mounted



RAK-18-25/35PPA



RAK-60PPA



RAK-70PPA



RAR-5E2

Indoor Unit			RAK-18PPA	RAK-25PPA
Nominal Cooling Capacity (min - max)	kW		2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)
Cooling Sensible Capacity	kW		1.9	2.1
UK Cooling Capacity (sensible)	kW		1.9 (1.7)	2.4 (2.0)
Nominal Heating Capacity (min - max)	kW		2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)
Heating capacity at -7°C ⁽¹⁾	kW		1.6	2.2
Nominal cooling power input (min - max)	kW		0.55 (0.25 - 1.01)	0.70 (0.25 - 1.29)
Nominal heating power input (min - max)	kW		0.58 (0.25 - 0.97)	0.88 (0.25 - 1.25)
Seasonal Efficiency SEER ⁽³⁾			5.8	5.8
	Energy Efficiency Class		A+	A+
Annual Energy Consumption	kWh/yr		121	151
	Energy Efficiency Class		A+	A+
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)			4.2	4.2
	Annual Energy Consumption	kWh/yr	609	823
Nominal Load Efficiency EER / COP ⁽⁴⁾			3.64 / 4.31	3.57 / 3.86
	Energy Class (Cool/Heat)		A / A	A / A
Noise level cooling (sound pressure) (SL / L / M / H)	dB(A)		21/27/33/37	22/24/33/40
Noise level heating (sound pressure) (SL / L / M / H)	dB(A)		19/28/34/38	20/21/34/41
Noise level (sound power) ⁽²⁾	dB(A)		51	54
Air flow cooling mode (SL / L / M / H)	m ³ /h		312/350/400/440	333/370/430/510
Air flow heating mode (SL / L / M / H)	m ³ /h		312/350/420/480	333/400/500/570
Dehumidification	l/h		1.2	1.4
Dimensions (H x W x D)	mm		280 x 780 x 218	280 x 780 x 218
Weight	kg		7.5	7.5
Power supply			35V DC from outdoor unit	35V DC from outdoor unit
Drain diameter (ext)			φ16mm	φ16mm
Remote Control (Standard)			RAR-5E2	RAR-5E2

RAK-35PPA	RAK-50PPA	RAK-60PPA	RAK-70PPA
3.50 (0.90 - 4.00)	5.0(0.9 - 5.2)	6.10 (0.9 - 6.5)	7.00 (1.5 - 8.00)
3.2	3.5	4.4	5.4
3.3 (2.5)	4.2 (3.1)	5.3 (4.0)	6.5 (4.8)
4.20 (0.90 - 5.00)	6.00 (0.9 - 8.1)	6.80 (0.9 - 8.5)	8.00 (1.5 - 9.2)
2.7	4.2	4.2	5.6
1.09 (0.25 - 1.46)	1.56 (0.15 - 1.90)	1.85 (0.15 - 2.30)	2.17 (0.20 - 2.82)
1.10 (0.25 - 1.70)	1.66 (0.15 - 2.01)	1.88 (0.12 - 2.55)	2.20 (0.20 - 2.97)
5.9	6.1	6.0	6.8
A+	A++	A+	A++
210	290	350	360
4.3	4.3	4.0	4.4
A+	A+	A+	A+
1,003	1,520	1,670	2,060
3.21 / 3.82	3.21 / 3.61	3.30 / 3.62	3.23 / 3.64
A / A	A / A	A / A	A / A
25/26/36/43	24/28/39/47	30/33/42/48	30/33/42/47
26/27/36/44	27/31/39/47	33/34/42/49	30/33/42/47
57	60	63	61
333/400/485/600	246/330/540/750	480/540/690/930	510/630/870/1020
333/520/550/660	330/420/570/750	480/510/720/1050	510/630/870/1080
1.6	2.8	2.8	4.5
280 x 780 x 218	300X790X230	295x1030x207	333x1150x245
7.5	10.0	12.0	15.0
35V DC from outdoor unit	35V DC from outdoor unit	35V DC & 230V, 1Ph , 50Hz	35V DC & 230V, 1Ph , 50Hz
φ16mm	φ16mm	φ16mm	φ16mm
infra red	Infra red	Infra red	Infra red
RAR-5E2	RAR-5E2	RAR-5E2	RAR-5E2

Outdoor Unit			RAC-18WPA	RAC-25WPA
Noise level cooling (sound pressure) (night mode)	dB(A)		46	48
Noise level heating (sound pressure) (night mode)	dB(A)		47	49
Noise level (sound power) ⁽²⁾	dB(A)		60	62
Air flow (Cooling / Heating)	m ³ /h		1860/1620	1860/1620
Dimensions (H x W x D)	mm		505 x 700 x 258	505 x 700 x 258
Weight	kg		27.0	27.0
Piping diameter (Liquid / Gas)	Inch		1/4 - 3/8	1/4 - 3/8
	mm		6.35 - 9.52	6.35 - 9.52
Minimum Piping Length	m		5	5
Maximum Piping Length / Height Difference	m		20 / 10	20 / 10
Current Quantity of Refrigerant	kg		0.82	0.82
Chargeless / Additional Refrigerant Charge	m / g/m		20 / -	20 / -
Power supply			230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A		16	16
Starting current	A		5.0	5.0
Running current (cooling / heating)	A		2.65 / 2.84	3.58 / 4.25
Interconnecting Cables	No.		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
Refrigerant / GWP			R410A / 1975	R410A / 1975
Compressor type			Rotary	Rotary

RAC-35WPA	RAC-50WPA	RAC-60WPA	RAC-70WPA
49	50	50	52
50	52	53	54
63	65	66	67
1920/1620	2160/2160	2160/2160	2820/2820
548x750x288	650X850X298	650x850x298	800x850x298
36.0	45.0	45.0	55.0
1/4 - 3/8	1/4 / 1/2	1/4 / 1/2	1/4 / 5/8
6.35 - 9.52	6.35 - 12.70	6.35 - 12.70	6.35 - 15.88
5	3	3	3
20 / 10	20 / 10	30 / 20	30 / 20
1.00	1.65	1.65	1.85
20 / -	-	30 / -	30 / -
230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
16	16	16	20
5.0	10.0	8.5	10.0
5.00 / 5.03	6.56 / 7.00	7.80 / 7.90	9.10 / 9.30
2 + E	2 + E	4 + E	4 + E
-10°C~43°C / -15°C~21°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
R410A / 1975	R410A / 1975	R410A / 1975	R410A / 1975
Rotary	Twin Rotary	Twin Rotary	Twin Rotary

⁽¹⁾ Value includes the defrost ratio.

⁽²⁾ 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

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

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



RAC Shirokuma



RAK-PXA



RAR-5E3

Wall Mounted

Indoor Unit		RAK-25PXA	RAK-35PXA	RAK-50PXA
Nominal Cooling Capacity (min - max)	kW	2.5 (0.9 - 3.1)	3.5 (0.9 - 4.0)	5.0 (0.9 - 5.2)
Cooling Sensible Capacity	kW	2.1	2.6	3.4
UK Cooling Capacity (sensible)	kW	2.2 (2.0)	2.7 (2.4)	4.3 (2.8)
Nominal Heating Capacity (min - max)	kW	3.4 (0.9 - 4.4)	4.2 (0.9 - 5.0)	6.3 (0.9 - 7.9)
Heating Capacity at -7°C ⁽¹⁾	kW	2.2	2.7	4.0
Nominal Cooling Power Input (min - max)	kW	0.58 (0.25 - 1.29)	0.92 (0.25 - 1.30)	1.55 (0.15 - 2.20)
Nominal Heating Power Input (min - max)	kW	0.79 (0.25 - 1.25)	1.01 (0.25 - 1.30)	1.75 (0.15 - 2.20)
Seasonal Efficiency SEER ⁽³⁾		5.8	5.9	6.0
Energy Efficiency Class		A+	A+	A+
Annual Energy Consumption	kWh/yr	150	209	300
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		4.3	4.3	4.2
Energy Efficiency Class		A+	A+	A+
Annual Energy Consumption	kWh/yr	811	999	1,529
Nominal Load Efficiency EER / COP ⁽⁴⁾		4.31 / 4.30	3.80 / 4.16	3.22 / 3.61
Energy Class (Cool/Heat)		A / A	A / A	A / A
Noise Level Cooling (sound pressure) (SL / L / M / H)	dB(A)	20/26/32/40	22/29/35/42	25/31/39/47
Noise Level Heating (sound pressure) (SL / L / M / H)	dB(A)	20/27/33/40	22/30/35/42	25/31/39/48
Noise level (sound power) ⁽²⁾	dB(A)	54	56	60
Air flow cooling mode (SL / L / M / H)	m ³ /h	210/270/370/480	230/300/400/520	288/408/552/690
Air flow heating mode (SL / L / M / H)	m ³ /h	200/330/420/570	220/360/450/610	288/438/576/780
Dehumidification	l/h	1.4	1.6	3.0
Dimensions (H x W x D)	mm	295x795x198	295x795x198	295x795x198
Weight	kg	10.0	10.0	10.0
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 RAR-5E3	Infra red RAR-5E3	Infra red RAR-5E3

Outdoor Unit		RAC-25WXA	RAC-35WXA	RAC-50WXA
Noise level cooling (sound pressure) (night mode)	dB(A)	46	47	50
Noise level heating (sound pressure) (night mode)	dB(A)	47	49	52
Noise level (sound power) ⁽²⁾	dB(A)	60	61	65
Air flow (Cooling / Heating)	m ³ /h	1860 / 1620	1920 / 1620	1950 / 1750
Dimensions (H x W x D)	mm	548x750x288	548x750x288	600x792x299
Weight	kg	31.0	35.0	42.0
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	1.35
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	16	16	16
Starting current	A	5.0	5.0	8.0
Running current (cooling / heating)	A	2.97/3.82	4.21/4.62	tbc/tbc
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

⁽¹⁾ Value includes the defrost ratio.

⁽²⁾ 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

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

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



RAR-5F1



RAK-PSA

Wall Mounted

Indoor Unit		RAK-18PSA	RAK-25PSA	RAK-35PSA
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 - 4.6)	3.2 (0.6 - 5.5)	4.0 (0.6 - 5.8)
Heating capacity at -7°C ⁽¹⁾	kW	1.5	2.1	2.6
Nominal cooling power input (min - max)	kW	0.30 (0.07 - 0.88)	0.47 (0.07 - 0.96)	0.81 (0.07 - 1.35)
Nominal heating power input (min - max)	kW	0.37 (0.06 - 1.07)	0.57 (0.06 - 1.41)	0.79 (0.06 - 1.49)
Seasonal Efficiency SEER ⁽³⁾		7.4	8.5	8.5
Energy Efficiency Class		A++	A+++	A+++
Annual Energy Consumption	kWh/yr	85	108	151
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		4.6	4.7	4.7
Energy Efficiency Class		A++	A++	A++
Annual Energy Consumption	kWh/yr	508	695	860
Nominal Load Efficiency EER / COP ⁽⁴⁾		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) ⁽²⁾	dB(A)	54	56	58
Air flow cooling mode (SL / L / M / H)	m ³ /h	260/300/420/ 470	260/320/420/510	270/320/420/520
Air flow heating mode (SL / L / M / H)	m ³ /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	295x798x233	295x798x233	295x798x233
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-5F1	Infra red RAR-5F1	Infra red RAR-5F1

Outdoor Unit		RAC-18WSA	RAC-25WSA	RAC-35WSA
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) ⁽²⁾	dB(A)	60	62	63
Air flow (Cooling / Heating)	m ³ /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	16	16	16
Starting current	A	2.2	2.2	2.2
Running current (cooling / heating)	A	1.89/2.27	2.81/3.37	4.63/4.54
Interconnecting Cables	No.	4	4	4
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

⁽¹⁾ Value includes the defrost ratio.

⁽²⁾ 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

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

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



RAC Monozone



RAI-RPA

RAR-5E2



RAD-RPA

RAC Monozone



Mini (600x600) Cassette

Ducted In the Ceiling

Indoor Unit		RAI-25RPA	RAI-35RPA	RAI-50RPA
Nominal Cooling Capacity (min - max)	kW	2.5 (0.9 - 3.0)	3.5 (0.9 - 4.0)	5.0 (0.9 - 5.2)
Cooling Sensible Capacity	kW	2.0	2.9	3.8
UK Cooling Capacity (sensible)	kW	2.3 (1.8)	3.2 (2.0)	4.1 (3.0)
Nominal Heating Capacity (min - max)	kW	3.5 (0.9 - 5.0)	4.8 (0.9 - 6.6)	6.2 (0.9 - 7.6)
Heating Capacity at -7°C ⁽¹⁾	kW	2.4	3.2	3.7
Nominal Cooling Power Input (min - max)	kW	0.69 (0.15 - 1.05)	1.10 (0.15 - 1.28)	1.99 (0.15 - 2.20)
Nominal Heating Power Input (min - max)	kW	0.94 (0.15 - 1.40)	1.36 (0.11 - 1.92)	2.16 (0.15 - 2.70)
Seasonal Efficiency SEER ⁽³⁾		5.7	5.8	5.2
Energy Efficiency Class		A+	A+	A
Annual Energy Consumption	kWh/yr	150	210	340
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		3.8	3.8	3.8
Energy Efficiency Class		A	A	A
Annual Energy Consumption	kWh/yr	1,000	1,310	1,560
Nominal Load Efficiency EER / COP ⁽⁴⁾		3.60 / 3.72	3.18 / 3.53	2.51 / 2.87
Energy Class (Cool/Heat)		A / A	B / B	E / D
Noise Level Cooling (sound pressure) (SL / L / M / H)	dB(A)	25/29/32/35	26/29/34/39	29/32/35/43
Noise Level Heating (sound pressure) (SL / L / M / H)	dB(A)	27/30/33/36	29/32/36/40	30/32/36/43
Noise level (sound power) ⁽²⁾	dB(A)	50	58	58
Air flow cooling mode (SL / L / M / H)	m³/h	330/348/420/510	330/348/480/648	330/348/480/720
Air flow heating mode (SL / L / M / H)	m³/h	330/348/420/510	330/348/480/648	330/348/480/720
Dehumidification	l/h	1.4	1.8	2.0
Dimensions (H x W x D)	mm	285x580x580	285x580x580	285x580x580
Weight	kg	20.0	20.0	20.0
Panel dimensions (H x W x D)	mm	32x650x650	32x650x650	32x650x650
Panel weight	kg	4.0	4.0	4.0
Panel reference		RAI-ECPP	RAI-ECPP	RAI-ECPP
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 (Standard)		Infra red RAR-5E2	Infra red RAR-5E2	Infra red RAR-5E2

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 ⁽¹⁾	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 ⁽³⁾		5.1	5.1	4.7
Energy Efficiency Class		A	A	B
Annual Energy Consumption	kWh/yr	180	240	380
Seasonal Efficiency SCOP ⁽³⁾ (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 ⁽⁴⁾		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) ⁽²⁾	dB(A)	57	57	58
Air flow cooling mode (SL / L / M / H)	m³/h	330/390/450/510	330/390/450/510	330/360/450/510
Air flow heating mode (SL / L / M / H)	m³/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) ⁽²⁾	dB(A)	65	65	65
Air flow (Cooling / Heating)	m³/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

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) ⁽²⁾	dB(A)	65	65	65
Air flow (Cooling / Heating)	m³/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

⁽¹⁾ Value includes the defrost ratio.

⁽²⁾ 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

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

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

⁽¹⁾ Value includes the defrost ratio.

⁽²⁾ 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

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

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



RAC Floor Mounted



RAF-RPA



RAR-5E2

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 ⁽¹⁾	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 ⁽³⁾		5.80	6.00	5.86
Energy Efficiency Class		A+	A+	A+
Annual Energy Consumption	kWh/yr	151	202	299
Seasonal Efficiency SCOP ⁽³⁾ (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 ⁽⁴⁾		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) ⁽²⁾	dB(A)	54	56	60
Air flow cooling mode (SL / L / M / H)	m ³ /h	378 / 462 / 540	400 / 485 / 600	430 / 530 / 650
Air flow heating mode (SL / L / M / H)	m ³ /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 RAR-5E2	infra red RAR-5E2	infra red 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) ⁽²⁾	dB(A)	61	62	65
Air flow (Cooling / Heating)	m ³ /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

⁽¹⁾ Value includes the defrost ratio.
⁽²⁾ 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
⁽³⁾ Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01
⁽⁴⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)



RAR-5E4



RAF-PXA

RAC Shirokuma



Floor Mounted

Indoor Unit		RAF-25PXA	RAF-35PXA	RAF-50PXA
Nominal Cooling Capacity (min - max)	kW	2.5 (0.9 - 3.1)	3.5(0.9 - 4.0)	5.0 (0.9 - 5.2)
Cooling Sensible Capacity	kW	2.50	2.95	3.80
UK Cooling Capacity (sensible)	kW	2.4 (1.9)	3.1 (2.5)	4.2 (3.1)
Nominal Heating Capacity (min - max)	kW	3.4(0.9 - 4.4)	4.5(0.9 - 5.0)	6.5 (0.9 - 8.1)
Heating Capacity at -7°C ⁽¹⁾	kW	2.3	2.9	4.0
Nominal Cooling Power Input (min - max)	kW	0.58 (15 - 1,16)	1.02 (0.15 - 1.38)	1.56 (0.15 - 1.95)
Nominal Heating Power Input (min - max)	kW	0.79 (0.11 - 1.17)	1.22 (0.11 - 1.35)	1.78 (0.15 - 2.10)
Seasonal Efficiency SEER ⁽³⁾		6.38	6.39	5.97
Energy Efficiency Class		A++	A++	A+
Annual Energy Consumption	kWh/yr	140	196	299
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		4.24	4.14	4.15
Energy Efficiency Class		A+	A+	A+
Annual Energy Consumption	kWh/yr	824	1,120	1,614
Nominal Load Efficiency EER / COP ⁽⁴⁾		4.31 / 4.30	3.43 / 3.69	3.21 / 3.65
Energy Class (Cool/Heat)		A / A	A / A	A / A
Noise Level Cooling (sound pressure) (SL / L / M / H)	dB(A)	20/26/31/38	20/26/31/39	22/29/36/43
Noise Level Heating (sound pressure) (SL / L / M / H)	dB(A)	20/26/31/38	20/26/31/39	22/29/36/44
Noise level (sound power) ⁽²⁾	dB(A)	55	56	59
Air flow cooling mode (SL / L / M / H)	m ³ /h	270/390/510/630	270/390/510/630	300/450/540/720
Air flow heating mode (SL / L / M / H)	m ³ /h	300/420/540/660	300/420/540/660	330/480/570/750
Dehumidification	l/h	1.4	1.9	2.8
Dimensions (H x W x D)	mm	590x750x215	590x750x215	590x750x215
Weight	kg	15.0	15.0	15.0
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 RAR-5E4	Infra red RAR-5E4	Infra red RAR-5E4

Outdoor Unit		RAC-25FXA	RAC-35FXA	RAC-50FXA
Noise Level Cooling (sound pressure) (night mode)	dB(A)	45	46	50
Noise Level Heating (sound pressure) (night mode)	dB(A)	47	48	52
Noise level (sound power) ⁽²⁾	dB(A)	62	63	65
Air flow (Cooling / Heating)	m ³ /h	1860 / 1620	1920 / 1620	1950 / 1750
Dimensions (H x W x D)	mm	590x750x215	590x750x215	600x792x299
Weight	kg	35.0	35.0	42.0
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	0.87	1.45
Chargeless / Additional Refrigerant Charge	m / g/m	20 / -	20 / -	30 / -
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	16	16	16
Starting Current	A	tbc	tbc	tbc
Running Current (Cooling / Heating)	A	2.66 / 3.63	4.68 / 5.60	7.16 / 8.17
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		Scroll	Scroll	Scroll

⁽¹⁾ Value includes the defrost ratio.
⁽²⁾ 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
⁽³⁾ Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01
⁽⁴⁾ Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

Specifications in this catalogue are subject to change without notice in order that HITACHI may bring the latest innovations to their customers, omitting typing errors.

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