

Multizone

High performance comfort



Installation

▬ The Hitachi Multizone range allows you to heat or cool up to 6 rooms.

Wide range

	Nominal Cooling (kW)	3.3	4	5	7	8.5	10.6
 2 UNITS		▬	▬	▬			
 3 UNITS				▬	▬		
 4 UNITS					▬		
 5 UNITS						▬	
 6 UNITS							▬

Outdoor Units

RAC MULTIZONE



		RAM-33NP2B	RAM-40NP2B	RAM-53NP2B	RAM-53NP3B	RAM-68NP3B	RAM-70NP4B	RAM-90NP5B	RAM-110NP6B
Minimum / Maximum indoor units connectable		2	2	2	2 / 3	2 / 3	2 / 4	2 / 5	2 / 3 (units per ref cycle)
Nominal Cooling Capacity (min - max)	<i>kW</i>	3,3 (1,5-3,8)	4,0 (1,5-4,2)	5,3 (1,5-6,6)	5,3 (1,5-6,6)	6,8 (2,40-8,00)	7,0 (2,4-8,8)	8,5 (1,52-9,5)	10,6 (1,5-13,2)
Nominal Heating Capacity (min - max)	<i>kW</i>	4,0 (1,5-4,6)	5,2 (1,5 - 5,5)	6,8 (1,5 - 7,2)	6,8 (1,5 - 7,2)	8,5 (2,8 - 9,5)	8,5 (2,8 - 9,5)	11,0 (1,5 - 11,5)	14,4 (1,5 - 14,4)
Nominal Cooling Power Input (min - max)	<i>kW</i>	0,80 (0,20-1,05)	1,05 (0,20-1,15)	1,55 (0,20-1,66)	1,55 (0,20-1,68)	2,08 (0,46-2,96)	2,11 (0,46-3,20)	2,23 (0,20-3,85)	3,20 (0,20-3,50)
Nominal Heating Power Input (min - max)	<i>kW</i>	0,92 (0,20-1,50)	1,21 (0,20-1,50)	1,79 (0,20-2,01)	1,62 (0,20-1,86)	2,28 (0,43-2,60)	2,11 (0,48-3,12)	2,46 (0,20-3,85)	3,60 (0,40-3,72)
Seasonal Efficiency SEER ⁽³⁾		6,30	7,00	7,15	7,15	6,60	6,30	6,50	6,3
Energy Efficiency Class		A++	A++	A++	A++	A++	A++	A++	A++
Annual Energy Consumption	<i>kWh/yr</i>	183	199	259	259	360	389	457	tba
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		4,30	4,33	4,31	4,31	4,20	4,20	4,20	4,2
Energy Efficiency Class		A+	A+	A+	A+	A+	A+	A+	A+
Annual Energy Consumption	<i>kWh/yr</i>	879	1,066	1,623	1,623	1,990	2,000	2,467	tba
Nominal Load Efficiency EER / COP ⁽⁴⁾		4,13/4,35	3,81/4,30	3,42/3,80	3,42/4,20	3,27/3,73	3,32/4,03	3,81/4,47	3,31/3,78
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	A / A	A / A	B / A
Noise Level Cooling (sound pressure)	<i>dB(A)</i>	48	49	50	50	50	50	53	55
Noise Level Heating (sound pressure)	<i>dB(A)</i>	50	51	51	51	53	53	56	56
Noise level (sound power) ⁽²⁾	<i>dB(A)</i>	61	62	62	62	63	63	66	68
Air flow (Cooling / Heating)	<i>m³/h</i>	1620/1620	1620/1620	2160/2160	2160/2160	2700/2700	2700/2700	3900/3900	4320
Dimensions (H x W x D)	<i>mm</i>	570x750x280	570x750x280	750x850x298	750x850x298	800x850x298	800x850x298	800x950x370	1450x855x308
Weight	<i>kg</i>	38,0	41,0	53,0	53,0	58,0	58,0	71,0	113,0
Piping Diameter (Liquid / Gas)	<i>Inch</i>	1/4" x 2 / 3/8" x 2		(1/4" x 3 / 3/8" x 3)			(1/4" x 4 / 3/8" x 3 + 1/2" x 1)	1/4" x 5 / (3/8" x 3) + (1/2" x 2)	(1/4" x 3 / 3/8" x 3) x 2
	<i>mm</i>	6,35 x 2 / 9,52 x 2		6,35 x 2 / 9,52 x 2			6,35 x 4 / [9,52 x 3] + [12,7 x 1]	6,35 x 5 / [9,52 x 4] + [12,7 x 1]	6,35 x 6 / 9,52 x 6
Minimum Piping Length	<i>m</i>	3,0							
Maximum Piping Length / Height Difference	<i>m</i>	20 / 10	35 / 20	35 / 20	45 / 20	60 / 20	60 / 20	75 / 20	45/20 per cycle
Current Quantity of Refrigerant	<i>kg</i>	1,03	1,45	1,90	1,90	2,30	2,30	2,70	1,65 per cycle
Chargeless / Additional Refrigerant Charge	<i>m / g/m</i>	20/-	35/-	35/-	35/20	30/20	30/20	30/15	35/20
Power supply		220-240V 50/60Hz							
Recommended fuse size	<i>A</i>	16			20			25	
Starting Current	<i>A</i>	8,0			9,0			8,0	
Running Current (Cooling / Heating)	<i>A</i>	3,70-3,40 / 4,20-3,90	4,80-4,40 / 5,60-5,10	(7,10-6,50 / 8,20-7,50)	(7,12-6,52 / 7,44-6,82)	(9,55-8,75 / 10,50-9,60)	(9,70-8,90 / 9,70-8,90)	(10,20-9,40 / 11,30-10,40)	(14,70-13,5 / 16,5-15,2)
Interconnecting Cables	<i>No.</i>	3 + Earth / Indoor							
Working Range (Cooling / Heating)	<i>°C</i>	-10°C~43°C / -15°C~21°C							
Refrigerant / GWP		R410A / 1975							
Compressor type		Twin Rotary							

(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)



Infra-red remote control



Wired remote control



Wired remote control SPX-WKT3

Infra-red remote control as standard for Wall mounted units, Floor mounted and Cassettes; optional on Ducted units.

Optional wired remote control on Floor mounted, Wall mounted units, Cassettes and Ducted units.

Indoor Units

RAC MULTIZONE



RAF 25-50RXB

FLOOR MOUNTED SHIROKUMA

		RAF-25RXB	RAF-35RXB	RAF-50RXB
Nominal Cooling capacity (min - max)	kW	2,50 (0,90 - 3,10)	3,5(0,9-4,0)	5,0 (0,9-5,2)
Cooling sensible capacity	kW	2,5	2,9	3,8
Nominal Heating capacity (min - max)	kW	3,40 (0,90- 4,40)	4,5(0,9-5,0)	6,0 (0,9-8,1)
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)	dB(A)	55	56	59
Air flow cooling mode (SL / L / M / H)	m ³ /h	270 / 390 / 510 / 630	270/390/510/660	300/450/540/720
Air flow heating mode (SL / L / M / H)	m ³ /h	300 / 420 / 540/ 660	300/420/540/690	330/480/570/750
Dehumidification	l/h	1,4	1,9	2,8
Included drain pump		no	no	no
Dimensions (H x W x D)	mm	590x750x215	590x750x215	590x750x215
Weight	kg	15,0	15,0	15,0
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
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
Drain diameter (ext)		φ16mm	φ16mm	φ16mm
Remote Control	Std	Infra Red/RAR-6N4	Infra Red/RAR-6N4	Infra Red/RAR-6N4
	Opt	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB



RAK 18 QXB
RAK 25-50 RXB

WALL MOUNTED SHIROKUMA

		RAK-18QXB	RAK-25RXB	RAK-35RXB	RAK-50RXB
Nominal Cooling capacity (min - max)	kW	1,8 (1,0-2,5)	2,50 (0,90 - 3,10)	3,50 (0,90- 4,00)	5,00 (1,90- 5,20)
Cooling sensible capacity	kW	1,8	2,3	3,0	3,7
Nominal Heating capacity (min - max)	kW	2,5 (1,1-3,2)	3,20 (0,90- 4,20)	4,00 (0,90- 4,80)	5,80 (2,2- 7,00)
Noise level cooling (sound pressure) (SL / L / M / H)	dB(A)	20/25/30/36	20/26/32/40	22/29/35/42	25/31/39/47
Noise level heating (sound pressure) (SL / L / M / H)	dB(A)	20/26/32/38	20/27/33/40	22/30/35/42	25/31/39/48
Noise level (sound power)	dB(A)	49	55	60	60
Air flow cooling mode (SL / L / M / H)	m ³ /h	300/330/430/500	300/330/510/560	320/340/430/580	350/400/580/720
Air flow heating mode (SL / L / M / H)	m ³ /h	310/360/480/600	290/370/560/610	310/360/480/630	350/420/620/800
Dehumidification	l/h	1,2	1,4	1,6	2,0
Included drain pump		no	no	no	no
Dimensions (H x W x D)	mm	295 x 900 x 210	295 x 900 x 210	295 x 900 x 210	295 x 900 x 210
Weight	kg	11,0	11,0	11,0	11,0
Power supply		230V from OUTDOOR	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Piping diameter (Liquid / Gas)	Inch	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4 / 1/2
	mm	6,35 - 9,52	6,35 - 9,52	6,35 - 9,52	6,35 - 12,70
Drain diameter (ext)		φ16mm	φ16mm	φ16mm	φ16mm
Remote Control	Std	Infra Red/RAR-6N1	Infra Red/RAR-6N1	Infra Red/RAR-6N1	Infra Red/RAR-6N1
	Opt	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB

RAK-18QXB can be dip switched to a size 12 (approx 1,2 kW Cooling / 1,8 kW Heating)

Indoor Units

RAC MULTIZONE



➤ Ideal solution for small areas: the size 18 can be switched to a lower output setting*.



RAK 15QPC



RAK 18-50RPC

WALL MOUNTED PERFORMANCE

		RAK-15QPC	RAK-18RPC	RAK-25RPC	RAK-35RPC	RAK-50RPC
Nominal Cooling capacity (min - max)	<i>kW</i>	1.50 (0.90- 2.00)	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90- 4.00)	5.00 (1.90- 5.20)
Cooling sensible capacity	<i>kW</i>	1.6	1.9	2.2	2.7	3.8
Nominal Heating capacity (min - max)	<i>kW</i>	2.00 (1.00 - 2.50)	2.50 (0.90 - 3.20)	3.40 (0.90- 4.40)	4.20 (0.90- 5.00)	6.00 (2.2- 7.30)
Noise level cooling (sound pressure) (SL / L / M / H)	<i>dB(A)</i>	20/24/30/34	21/24/33/37	22/24/33/40	25/26/36/43	25/28/39/46
Noise level heating (sound pressure) (SL / L / M / H)	<i>dB(A)</i>	20/24/32/35	19/22/33/38	20/23/34/41	26/27/36/44	27/31/39/46
Noise level (sound power)	<i>dB(A)</i>	47	51	54	57	60
Air flow cooling mode (SL / L / M / H)	<i>m³/h</i>	312 / 350 / 400 / 420	312 / 350 / 400 / 440	333 / 370 / 430 / 510	353 / 420 / 485 / 680	353/410/540/750
Air flow heating mode (SL / L / M / H)	<i>m³/h</i>	312 / 350 / 420 / 480	312 / 350 / 420 / 480	333 / 400 / 500/ 570	363 / 480 / 570/ 780	380/500/610/820
Dehumidification	<i>l/h</i>	1.2	1.2	1.4	1.6	2.0
Included drain pump		no	no	no	no	no
Dimensions (H x W x D)	<i>mm</i>	280 x 780 x 218	280 x 780 x 218	280 x 780 x 218	295 x 900 x 230	295 x 900 x 230
Weight	<i>kg</i>	7.5	7.5	7.5	10.0	10.0
Power supply		230V from OUTDOOR	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Piping diameter (Liquid / Gas)	<i>Inch</i>	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4 / 1/2
	<i>mm</i>	6.35 - 9.52	6.35 - 9.52	6.35 - 9.52	6.35 - 9.52	6.35 - 12.70
Drain diameter (ext)		φ16mm	φ16mm	φ16mm	φ16mm	φ16mm
Remote Control	<i>Std</i>	Infra Red/RAR-6N1	Infra Red/RAR-6N1	Infra Red/RAR-6N1	Infra Red/RAR-6N1	Infra Red/RAR-6N1
	<i>Opt</i>	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB

RAK-15QXB can be dip switched to a size 10 (approx 1.0 kW Cooling / 1.5 kW Heating)

Indoor Units

RAC MULTIZONE



RAD 18~50QPB

DUCTED IN THE CEILING

		RAD-18QPB	RAD-25QPB	RAD-35QPB	RAD-50QPB
Nominal Cooling capacity (min - max)	<i>kW</i>	1.8 (0.9-2.5)	2.5 (0.9-3.0)	3.5 (0.9-4.0)	5.0 (0.9-5.6)
Cooling sensible capacity	<i>kW</i>	-	2.0	2.5	3.8
Nominal Heating capacity (min - max)	<i>kW</i>	2.5 (0.9-3.2)	3.5 (0.9-5.5)	4.8 (0.9-6.6)	6.0 (0.9-7.5)
Noise level cooling (sound pressure) (SL / L / M / H)	<i>dB(A)</i>	30/33/37/41	30/33/37/41	30/33/37/41	31/35/39/43
Noise level heating (sound pressure) (SL / L / M / H)	<i>dB(A)</i>	30/34/38/42	30/34/38/42	30/34/38/42	32/35/39/43
Noise level (sound power)	<i>dB(A)</i>	57	57	57	58
Air flow cooling mode (SL / L / M / H)	<i>m³/h</i>	400/480/560/600	400/480/560/600	400/480/570/660	400/480/570/660
Air flow heating mode (SL / L / M / H)	<i>m³/h</i>	450/520/590/650	450/520/590/650	440/510/600/720	440/510/600/720
Static pressure (L / M / H)	<i>Pa</i>	C [42(242)/49(274)/51(291)] H [46(266)/52(293)/57(314)]		C [44(243)/50(279)/58(323)] H [51(259)/58(289)/69(340)]	
Dehumidification	<i>l/h</i>	1.4	1.4	2.1	2.8
Included drain pump		yes	yes	yes	yes
Dimensions (H x W x D)	<i>mm</i>	235x750x400	235x750x400	235x750x400	235x750x400
Weight	<i>kg</i>	16.0	16.0	16.0	16.0
Power supply		230V from OUTDOOR	230V from OUTDOOR	230V from OUTDOOR	230V from OUTDOOR
Piping diameter (Liquid / Gas)	<i>Inch</i>	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4 / 1/2
	<i>mm</i>	6,35 - 9,52	6,35 - 9,52	6,35 - 9,52	6,35 - 12,70
Drain diameter (ext)		φ16mm	φ16mm	φ16mm	φ16mm
Remote control (Optional)		Infra red/SPX-RCKA1	Infra red/SPX-RCKA1	Infra red/SPX-RCKA1	Infra red/SPX-RCKA1
		Wired/SPX-RCDA	Wired/SPX-RCDA	Wired/SPX-RCDA	Wired/SPX-RCDA



RAI 25~50QPB

CASSETTE 600 × 600

		RAI-25QPB	RAI-35QPB	RAI-50QPB
Nominal Cooling capacity (min - max)	<i>kW</i>	2.5 (0.9-3.0)	3.5 (0.9-4.0)	5.0 (0.9-5.2)
Cooling sensible capacity	<i>kW</i>	2.0	2.9	3.8
Nominal Heating capacity (min - max)	<i>kW</i>	3.5 (0.9-5.0)	4.8 (0.9-6.6)	6.2 (0.9-7.6)
Noise level cooling (sound pressure) (SL / L / M / H)	<i>dB(A)</i>	28/31/34/37	30/34/38/42	32/36/40/44
Noise level heating (sound pressure) (SL / L / M / H)	<i>dB(A)</i>	29/32/35/38	30/35/39/43	32/36/40/44
Noise level (sound power)	<i>dB(A)</i>	50	58	58
Air flow cooling mode (SL / L / M / H)	<i>m³/h</i>	330/360/420/510	390/420/510/650	390/450/510/720
Air flow heating mode (SL / L / M / H)	<i>m³/h</i>	390/420/480/550	450/480/510/660	450/510/540/720
Dehumidification	<i>l/h</i>	1.4	1.8	2.0
Included drain pump		yes	yes	yes
Dimensions (H x W x D)	<i>mm</i>	285x580x580	285x580x580	285x580x580
Panel dimensions (H x W x D)	<i>mm</i>	32x650x650	32x650x650	32x650x650
Weight	<i>kg</i>	20.0	20.0	20.0
Panel weight	<i>kg</i>	4.0	4.0	4.0
Panel reference		RAI-ECPP	RAI-ECPP	RAI-ECPP
Power supply		230V from OUTDOOR	230V from OUTDOOR	230V from OUTDOOR
Piping diameter (Liquid / Gas)	<i>Inch</i>	1/4 - 3/8	1/4 - 3/8	1/4 / 1/2
	<i>mm</i>	6.35 - 9.52	6.35 - 9.52	6.35 - 12.70
Drain diameter (ext)		φ16mm	φ16mm	φ16mm
Remote control	<i>Std</i>	Infra Red/RAR-6N2	Infra Red/RAR-6N2	Infra Red/RAR-6N2
	<i>Opt</i>	Wired/SPX-RCDB	Wired/SPX-RCDB	Wired/SPX-RCDB

Combinations

RAC MULTIZONE



RAM-33NP2B INDOOR UNIT COMBINATIONS

	Combination of Indoor Units (kW)	COOLING MODE						HEATING MODE					
		Nominal Capacity (kW)	Capacity/ Indoor Unit (kW)	Total Capacity (kW)	Outdoor Unit			Nominal Capacity (kW)	Capacity/ Indoor Unit (kW)	Total Capacity (kW)	Outdoor Unit		
					Power Input (W)	EER	Energy Class				Power Input (W)	COP	Energy Class
1 Unit	15	1.5	1.5	1.5	330	4.55	A	2.0	2.0	2.0	550	3.64	A
	18	1.8	1.8	2.5	390	4.62	A	2.5	2.5	2.5	690	3.62	A
	25	2.5	2.5	2.5	640	3.91	A	3.4	3.4	3.4	910	3.74	A
2 Units	15+15	1.5+1.5	1.5+1.5	3.0	810	3.70	A	2.0+2.0	2.0+2.0	4.0	950	4.21	A
	15+18	1.5+1.8	1.5+1.8	3.3	800	4.13	A	2.0+2.5	1.78+2.22	4.0	950	4.21	A
	15+25	1.5+2.5	1.24+2.06	3.3	800	4.13	A	2.0+3.4	1.36+2.64	4.0	950	4.21	A
	18+18	1.8+1.8	1.65+1.65	3.3	800	4.13	A	2.5+2.5	2.0+2.0	4.0	950	4.21	A
	18+25	1.8+2.5	1.38+1.92	3.3	800	4.13	A	2.5+3.4	1.56+2.44	4.0	950	4.21	A
	25+25	2.5+2.5	1.65+1.65	3.3	800	4.13	A	3.4+3.4	2.0+2.0	4.0	950	4.21	A

Notes:

- Two units must be connected
- Capacity for single connected unit applies when two units are connected

