

HITACHI
Inspire the Next



Hitachi's R410a All DC Inverter Ranges elevate air conditioning to a new level, incorporating significant advances in electronics technology.

With cooling and heating capacities from 2.0Kw to 8.0Kw, the all DC Inverter PAM driven mono split SUMMIT range incorporates the R410a refrigerant, Hitachi DC Scroll, or DC Twin Rotary compressor all working together for high performance and ultimate efficiency.

- DC inverter PAM control
- Highest COP up to 4.46 (AA) in cooling/4.42 (AA) in heating
- Low noise down to 20dBA on sleep mode
- Heating available even at -15°C ambient temperature
- Auto restart and Auto changeover
- Washable carbon and anti-bacteria air purifying filter
- 24hr remote control timer
- R410a refrigerant

Summit



Summit – RAS/RAC Technical Description

General Data

Model	Indoor Outdoor	RAS-18YH5 RAC-18YH5	RAS-25YH5 RAC-25YH5	RAS-35YH5 RAC-35YH5	RAS-50YH5 RAC-50YH5	RAS-60YH5 RAC-60YH5	RAS-70YH5 RAC-70YH5	RAS-80YH5 RAC-80YH5
Power Supply		AC 1Ph 220-230V 50Hz						
Nominal Cooling Capacity (min-max)	kW	2.0(0.9-2.5)	2.5(0.9-3.1)	3.5(0.9-4.0)	5.0(0.9-5.2)	6.05(0.9-6.5)	7.0(0.9-8.0)	8.0(1.5-8.5)
Nominal Heating Capacity (min-max)	kW	2.5(0.9-3.2)	3.4(0.9-4.4)	4.2(0.9-5.0)	6.5(0.9-8.1)	7.05(0.9-9.0)	8.2(0.9-9.5)	9.3(1.5-9.7)
Total Input								
Cooling	W	550(155-1010)	580(155-1080)	980(155-1300)	1780(155-2200)	2300(155-2500)	2670(200-2920)	3070(200-3850)
Heating	W	580(115-970)	790(115-1120)	1010(115-1300)	1970(115-2200)	2400(115-2700)	2770(200-3250)	3100(200-3850)
Total Current								
Cooling	A	2.8	2.9	4.4	7.8	10.1	11.7	13.5
Heating	A	2.8	3.7	4.5	8.7	10.5	12.2	13.6
COP								
Cooling		3.64	4.31	3.57	2.81	2.63	2.62	2.61
Heating		4.31	4.30	4.16	3.30	2.94	2.96	3.00
Sound Pressure Level (Overall scale)								
Cooling	dBA	35/32/26/20	38/32/26/20	41/35/29/25	47/39/31/27	47/42/33/28	48/42/33/30	46/43/40/36
Heating	dBA	36/33/27/23	39/33/27/23	41/35/30/26	47/39/31/27	47/42/34/33	49/42/34/33	47/44/41/39
Condenser Sound Pressure Level								
Cooling	dBA	44	45	46	50	50	52	55
Heating	dBA	46	46	47	52	53	54	57
Indoor Outer Dimensions (Net/(Carton))								
Height	mm	280(254)	280(254)	280(254)	280(254)	295(271)	295(271)	333(293)
Width	mm	780(826)	780(826)	780(826)	780(826)	1030(1100)	1030(1100)	1150(1193)
Depth	mm	210(325)	210(325)	210(325)	210(325)	191(368)	191(368)	245(388)
Net Weight	kg	9.5(11)	9.5(11)	9.5(11)	9.5(11)	11(13)	12(14)	15(18)
Condenser Outer Dimensions (Net/(Carton))								
Height	mm	548(591)	548(591)	548(591)	650(698)	650(698)	800(848)	875(896)
Width	mm	750(871)	750(871)	750(871)	850(1008)	850(1008)	850(1008)	925(1037)
Depth	mm	288(377)	288(377)	288(377)	298(394)	298(394)	298(394)	315(417)
Net Weight	kg	35(38)	35(38)	35(38)	45(50)	45(50)	52(57)	75(87)
Cabinet Colour (Munsell Code)		Beige (5Y 7/2)	Beige (5Y 7/2)	Beige (5Y 7/2)	Beige (5Y 7/2)	Beige(5Y 7/2)	Beige(5Y 7/2)	Beige(5Y 7/2)
Refrigerant		R410a						
Flow Control		Expansion Valve						
Compressor								
Type		DC Rotary	DC Scroll	DC Scroll	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary
Quantity	set	1	1	1	1	1	1	1
Indoor Fan								
Type		DC 35V	DC 35V	DC 35V	DC 35V	DC 35V	DC320V	DC 320V
Air Flow Rate Cooling	m³/min	7.3/6.7/5.8	8.5/7.0/6.0	10.1/8.0/6.5	13.5/10.0/6.8	13.5/12.5/11.3	14.0/12.5/11.3	19/16.5/13.5
Air Flow Rate Heating	m³/min	8.0/7.0/5.8	9.5/8.0/7.0	10.8/8.5/7.5	13.5/10.0/6.8	13.5/12.5/11.3	14.0/12.5/11.3	19/16.5/13.5
Condenser Fan								
Type		DC 140-350V	DC 140-350V	DC 140-350V	DC 360V	DC 360V	DC 380V	DC 380V
Air Flow Rate Cooling /Heating	m³/min	24/23	31/27	32/27	36/36	36/36	47/47	55/55
Refrigerant Piping		Flair Nut/Flange Connection						
Liquid Line	mm(in.)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Gas Line	mm(in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	12.7(1/2)	15.8(5/8)	15.88(5/8)
Pipe Run								
Max Pipe Length	m	20	20	20	20	30	30	30
(Changeless)	m	20	20	20	20	20	20	20
Individual Pipe Length	m	-	-	-	-	-	-	-
Max Pipe Lift	m	10	10	10	10	10	10	10
Interconnection Wires	pcs	3	3	3	3	3	5	5
Starting Current	A	2.8	3.7	4.5	10.0	10.0	12.3	14.0
Recommended Fuse Size	A	16	16	16	16	16	20	30
Auto Restart by Previous Mode		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Changeover		Yes	Yes	Yes	Yes	Yes	Yes	Yes
LED Self Diagnosis		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Air Purifying Filter Type		SPX-CFH11	SPX-CFH11	SPX-CFH11	SPX-CFH11	SPX-CFH5	SPX-CFH5	SPX-CFH13
Remote Control Timer	Hr	24	24	24	24	24	24	24

NOTES:

Cooling Operation Conditions

Indoor Air Inlet Temperature: 27 °C DB/19 °C WB
Outdoor Air Inlet Temperature: 35 °C DB

Heating Operation Conditions

Indoor Air Inlet Temperature: 20 °C DB
Outdoor Air Inlet Temperature: 7 °C DB/6 °C WB

Sound Pressure Level Measurement Distance:

1m from discharge grille. 0.8m beneath the unit's height centre
1m from suction/discharge grille. Approx. 1m from floor level

Piping Length: 7.5 meters/**Piping Lift:** 0 meters

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