

# SUMMIT

## Summit framed flat

### RAS/RAC Technical Description

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 5.0kW, the all DC Inverter PAM driven mono split SUMMIT Framed Flat range incorporates the R410A refrigerant, Hitachi DC Scroll, or DC Twin Rotary compressor all working together for high performance and ultimate efficiency.

- New Flat Framed design
- DC inverter PAM control
- Highest COP up to 4.31 (AA) in cooling/ 4.30 (AA) in heating
- Low noise down to 20dBA on sleep mode
- Cooling available under -10°C ambient temperature
- 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



### General Data



Model	Indoor Outdoor	RAS-18FH6 RAC-18YH6	RAS-25FH6 RAC-25YH6	RAS-35FH6 RAC-35YH6	RAS-50FH6 RAC-50YH6
<b>Power Supply</b>		AC 1Ph 220-230V 50Hz			
<b>Nominal (min-max) Cooling Capacity</b>	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)
<b>Nominal (min- max) Heating Capacity</b>	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)
<b>Total Input</b>					
Cooling	W	550(155-1010)	700(155-1290)	1090(155-1460)	1780(155-2200)
Heating	W	580(115-970)	880(115-1250)	1110(115-1440)	1970(155-2100)
<b>Total Current</b>					
Cooling	A	2.95-2.81	3.75-3.59	5.22-4.99	8.14-7.50
Heating	A	2.93-2.81	4.45-4.26	5.32-5.09	9.00-8.30
<b>EER/COP</b>					
Cooling		3.64	3.57	3.21	2.81
Heating		4.31	3.86	3.78	3.30
<b>Sound Pressure Level (Overall Scale)</b>					
Cooling	dBA	35/32/26/20	38/32/26/20	42/35/29/25	47/39/28/24
Heating	dBA	36/33/27/23	39/33/27/23	42/35/30/26	47/39/31/27
<b>Condenser Sound Pressure Level</b>					
Cooling	dBA	44	46	46	50
Heating	dBA	46	48	49	52
<b>Indoor Outer Dimensions (Net/ (Carton))</b>					
Height	mm	280(279)	280(279)	280(279)	280(279)
Width	mm	780(828)	780(828)	780(828)	780(828)
Depth	mm	220(341)	220(341)	220(341)	220(341)
Weight	Kg	9.5(11)	9.5(11)	9.5(11)	9.5(11)
<b>Condenser Outer Dimensions (Net/(Carton))</b>					
Height	mm	505(557)	505(557)	548(591)	650(698)
Width	mm	700(809)	700(809)	750(871)	850(1008)
Depth	mm	258(352)	258(352)	288(377)	298(394)
Weight	Kg	27(29)	27(29)	35(38)	45(50)
<b>Cabinet Colour (Munsell Code)</b>		Beige(5Y 7/2)	Beige(5Y 7/2)	Beige(5Y 7/2)	Beige(5Y 7/2)
<b>Refrigerant</b>		R410A	R410A	R410A	R410A
Flow Control		Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
<b>Compressor</b>					
Type x Qty		DC Rotary x1	DC Rotary x1	DC Rotary x1	DC Twin Rotary x1
<b>Indoor Fan</b>					
Type		DC 35V	DC 35V	DC 35V	DC 35V
Air Flow Rate Cooling	m³/min	7.3/6.7/5.8/5.2	8.5/7.0/6.0/5.4	10.0/8.0/6.5/5.7	13.5/10.0/6.8/6.0
Air Flow Rate Heating	m³/min	8.0/7.0/5.8/5.5	9.5/8.0/7.0/5.8	10.8/8.5/7.5/6.1	13.5/10.0/6.8/6.5
<b>Condenser Fan</b>					
Type		DC380V	DC380V	DC380V	DC 360V
Air Flow Rate Cooling/Heating	m³/min	24/23	31/27	32/27	36/36
<b>Usable Outdoor Temperature</b>					
Cooling		-10-43	-10-43	-10-43	-10-43
Heating		-15-21	-15-21	-15-21	-15-21
<b>Refrigerant Piping</b>					
Liquid Line	mm (in)	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)
<b>Pipe Run</b>					
Max Pipe Length	m	20	20	20	20
(Chargeless)	m	20	20	20	20
Individual Pipe Length	m	-	-	-	-
Max Pipe Lift	m	10	10	10	10
<b>Interconnection wires</b>	pcs	3	3	3	3
<b>Recommended Fuse Size</b>	A	16	16	16	16
<b>Auto Restart by Previous Mode</b>		Yes	Yes	Yes	Yes
<b>Auto Changeover</b>		Yes	Yes	Yes	Yes
<b>LED Self Diagnosis</b>		Yes	Yes	Yes	Yes
<b>Normal Pre-filter</b>		Yes	Yes	Yes	Yes
<b>Nano Stainless Pre-filter</b>		Option	Option	Option	Option
<b>Air Purifying Filter Type</b>		SPX-CFH11	SPX-CFH11	SPX-CFH11	SPX-CFH11
<b>Anti-bacterial Tangential Fan</b>		Yes	Yes	Yes	Yes
<b>H-Link Connectability</b>		Yes	Yes	Yes	Yes
<b>Weekly Timer Wired Remote Control</b>		Option	Option	Option	Option
<b>Wired Remote Control</b>		Option	Option	Option	Option
<b>Wired Remote Control Timer</b>	Hr	12	12	12	12
<b>Wireless Remote Control</b>		Standard	Standard	Standard	Standard
<b>Wireless Remote Control Timer</b>	Hr	24	24	24	24



# Summit YH5

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- DC inverter PAM control
- Highest COP up to 4.31 (A) in cooling/4.30 (A) in heating
- Low noise down to 20dBA on sleep mode
- Cooling available under -10°C ambient temperature
- Heating available under -15°C ambient temperature
- Auto restart by previous mode and Auto changeover
- Washable carbon and anti-bacteria air purifying filter
- 24hr remote controller timer
- R410A refrigerant



## General Data

Model	Indoor Outdoor	RAS-60YH5A RAC-60YH5	RAS-70YH5A RAC-70YH5	RAS-80YH5A RAC-80YH5
<b>Power Supply</b>			AC 1Ph 220-230V 50Hz	
<b>Nominal (min-max) Cooling Capacity</b>	KW	6.05(0.9-6.5)	7.0(0.9-8.0)	8.0(1.5-8.5)
<b>Nominal (min- max) Heating Capacity</b>	KW	7.05(0.9-9.0)	8.2(0.9-9.5)	9.3(1.5-9.7)
<b>Total Input</b>				
Cooling	W	2300(155-2500)	2670(200-2920)	3070(200-3850)
Heating	W	2400(115-2700)	2770(200-3250)	3100(200-3850)
<b>Total Current</b>				
Cooling	A	10.60-10.10	12.30-11.70	14.10-13.50
Heating	A	11.00-10.50	12.70-12.20	14.30-13.60
<b>EER/COP</b>				
Cooling		2.63	2.62	2.61
Heating		2.94	2.96	3.00
<b>Sound Pressure Level (Overall Scale)</b>				
Cooling	dBA	47/42/33/28	48/42/33/30	46/43/40/36
Heating	dBA	47/42/34/33	49/42/33/33	47/44/41/39
<b>Condenser Sound Pressure Level</b>				
Cooling	dBA	50	52	55
Heating	dBA	53	54	57
<b>Indoor Outer Dimensions (Net/ (Carton))</b>				
Height	mm	295(271)	295(271)	333(293)
Width	mm	1030(1100)	1030(1100)	1150(1193)
Depth	mm	191(368)	191(368)	245(388)
Weight	Kg	11(13)	12(14)	15(18)
<b>Condenser Outer Dimensions (Net/(Carton))</b>				
Height	mm	650(698)	800(848)	875(896)
Width	mm	850(1008)	850(1008)	925(1037)
Depth	mm	298(394)	298(394)	315(417)
Weight	Kg	45(50)	52(57)	75(87)
<b>Cabinet Colour (Munsell Code)</b>		Beige(5Y 7/2)	Beige(5Y 7/2)	Beige(5Y 7/2)
<b>Refrigerant</b>		R410A	R410A	R410A
Flow Control		Expansion Valve	Expansion Valve	Expansion Valve
<b>Compressor</b>				
Type x Qty		DC Twin Rotary x1	DC Twin Rotary x1	DC Twin Rotary x1
<b>Indoor Fan</b>				
Type		DC 35V	DC 320V	DC 320V
Air Flow Rate Cooling	m³/min	13.5/12.5/11.3/9.6	14.0/12.5/11.3/10.3	19.0/16.5/13.5/12.1
Air Flow Rate Heating	m³/min	13.5/12.5/11.3/10.9	14.0/12.5/11.3/11.0	19.0/16.5/13.5/12.8
<b>Condenser Fan</b>				
Type		DC 360V	DC 380V	DC 380V
Air Flow Rate Cooling/Heating	m³/min	36/36	47/47	55/55
<b>Usable Outdoor Temperature</b>				
Cooling		-10-43	-10-43	-10-43
Heating		-15-21	-15-21	-15-21
<b>Refrigerant Piping</b>				
Liquid Line	mm (in)	6.35(1/4)	6.35(1/4)	6.35(1/4)
Gas Line	mm (in)	12.7(1/2)	15.8(5/8)	15.88(5/8)
<b>Pipe Run</b>				
Max Pipe Length (Chargeless)	m	30	30	30
Individual Pipe Length	m	20	20	20
Max Pipe Lift	m	-	-	-
<b>Interconnection wires</b>	pcs	3	5	5
<b>Recommended Fuse Size</b>	A	16	20	30
<b>Auto Restart by Previous Mode</b>		Yes	Yes	Yes
<b>Auto Changeover</b>		Yes	Yes	Yes
<b>LED Self Diagnosis</b>		Yes	Yes	Yes
<b>Normal Pre-filter</b>		Yes	Yes	Yes
<b>Nano Stainless Pre-filter</b>		Option	Option	Option
<b>Air Purifying Filter Type</b>		SPX-CFH5	SPX-CFH5	SPX-CFH12
<b>Anti-bacterial Tangential Fan</b>		Yes	Yes	Yes
<b>H-Link Connectability</b>		Yes	Yes	Yes
<b>Weekly Timer Wired Remote Control</b>		Option	Option	Option
<b>Wired Remote Control</b>		Option	Option	Option
<b>Wired Remote Control Timer</b>		12	12	12
<b>Wireless Remote Control</b>		Standard	Standard	Standard
<b>Wireless Remote Control Timer</b>		24	24	24

