



SAI HVAC

Compact Comfort Series 2

Product Specifications



Indoor Units

Low-Mid Static Indoor Line-up



Model			HS-LBH-2	HS-MBH-4
Power supply		V-Ph-Hz	220-240/1/50	
Cooling	Capacity	kW	2.2	3.6
	Power Input	W	40	45
Heating	Capacity	kW	2.6	4.0
	Power input	W	40	45
Air flow rate	Minimum	L/s	108	120
	Nominal		144	161
	Maximum		201	225
External static pressure		Pa	10 (0~50)	
Unit	Net Dimensions (WxDxH)	mm	780 x 500 x 210	
	Packed Dimensions (WxDxH)	mm	870 x 525 x 285	
	Net/Gross weight	kg	18/21	
Connection Size	Liquid pipe	mm	Φ6.4 (1/4)	
	Gas pipe	mm	Φ12.7 (1/2)	
	Drain pipe	mm	25mm (20mm Pressure Pipe with MB Adapter)	
Maximum distance from outdoor		m	Engineering required above 40m	
Supply/Return Air Spigot Size (LxH)		mm	SA 512 x 145 - RA 600 x 196	



Model		HS-MBH-9	
Power Supply		V-Ph-Hz	220-240/1/50
Cooling	Capacity	kW	9.0
	Power Input	W	120
Heating	Capacity	kW	10.0
	Power input	W	120
Air flow rate	Minimum	L/s	265
	Nominal		350
	Maximum		535
External static pressure		Pa	20(10~100)
Unit	Net Dimensions (WxDxH)	mm	1230 x 795 x 270
	Packed Dimensions (WxDxH)	mm	1355 x 795 x 350
	Net/Gross weight	kg	37/45
Connection Size	Liquid pipe	mm	Φ9.5 (3/8)
	Gas pipe	mm	Φ15.9 (5/8)
	Drain pipe	mm	25mm (20mm Pressure Pipe with MB adapter)
Maximum distance from outdoor		m	Engineering required above 40m
Supply/Return Air Spigot Size (LxH)		mm	SA 933 x 179 - RA 1035 x 260

High Static Indoor Line-up VAV Series

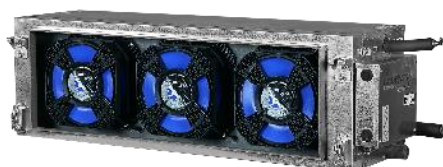


Model			HS-VAV-11	HS-VAV-16
Power supply			220-240/1/50	
Cooling	Capacity	kW	10.5	16
	Power Input	W	380	700
Heating	Capacity	kW	11.5	17.0
	Power input	W	380	700
Air flow rate	Minimum	L/s	200	200
	Nominal		519	739
	Maximum		645	1150
External static pressure		Pa	100 (30~120)	
Unit	Net Dimensions (WxDxH)	mm	965 x 690 x 423	1322 x 691 x 423
	Packed Dimensions (WxDxH)	mm	1090 x 768 x 440	1436 x 768 x 450
	Net/Gross weight	kg	48/55	63/70
Connection Size	Liquid pipe	mm	Φ9.5 (3/8)	
	Gas pipe	mm	Φ15.9 (5/8)	
	Drain pipe	mm	25mm (20mm Pressure Pipe with V1 Adapter)	
Maximum distance from Outdoor		m	Engineering required above 30m	Engineering required above 40m
Supply/Return Air Spigot Size (LxH)		mm	SA 428 x 255 – RA 722 x 339.5	SA 933 x 250 – RA 1076 x 338



Model			HS-VAV-20	HS-VAV-24
Power supply			220-240/1/50	
Cooling	Capacity	kW	20	25
	Power Input	W	990	1200
Heating	Capacity	kW	22.5	26
	Power input	W	990	1200
Air flow rate	Minimum	L/s	250	
	Nominal		1200	
	Maximum		1400	
External static pressure		Pa	100 (30~150)	
Unit	Net Dimensions (WxDxH)	mm	1454 × 931 x 515	
	Packed Dimensions (WxDxH)	mm	1509 x 990 x 550	
	Net/Gross weight	kg	130/142	
Connection Size	Liquid pipe	mm	Φ12.7 (1/2)	
	Gas pipe	mm	Φ22.2 (7/8)	
	Drain pipe	mm	32mm (20mm Pressure Pipe with V2 Adapter)	
Maximum distance from outdoor		m	Engineering required above 50m	Engineering required above 60m
Supply/Return Air Spigot Size (LxH)		mm	SA 936 x 378 – RA 1122 x 342	

Super High Static Indoor Line-up Radical Series



Model			HS-RAD-11	HS-RAD-16
Power supply			220-240/1/50	
Cooling	Capacity	kW	10.5	15.5
	Power Input	W	380	700
Heating	Capacity	kW	11.5	16.8
	Power input	W	380	700
Air flow rate	Minimum	L/s	200	200
	Nominal		519	739
	Maximum		645	1050
External static pressure		Pa	100 (30~350)	
Unit	Net Dimensions (WxDxH)	mm	1260 x 390 x 410	1410 x 390 x 490
	Packed Dimensions (WxDxH)	mm	1450 x 530 x 420	1630 x 530 x 530
	Net/Gross weight	kg	32 / 45	51 / 65
Connection Size	Liquid pipe	mm	Φ9.5 (3/8)	
	Gas pipe	mm	Φ15.9 (5/8)	
	Drain pipe	mm	19mm (20mm Pressure Pipe with R1 Adapter)	
Maximum distance from outdoor		m	Engineering required above 30m	Engineering required above 40m
Supply/Return Air Spigot Size (LxH)		mm	SA 1038 x 321 – RA 1055 x 302	SA 1188 x 410 RA 1193 x 410

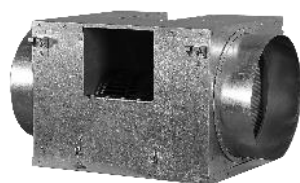
Please note the earlier models of the HS-RAD-16 have a pipe size of 3/8-3/4 – please check the serial number with SAI HVAC



Model			HS-RAD-20	HS-RAD-24
Power supply			220-240/1/50	
Cooling	Capacity	kW	20	25
	Power Input	W	990	1200
Heating	Capacity	kW	22.5	26
	Power input	W	990	1200
Air flow rate	Minimum	L/s	250	
	Nominal		1200	
	Maximum		1400	
External static pressure		Pa	100 (30~350)	
Unit	Net Dimensions (WxDxH)	mm	1607 x 395 x 490	
	Packed Dimensions (WxDxH)	mm	1750 x 500 x 550	
	Net/Gross weight	kg	62 / 105	
Connection Size	Liquid pipe	mm	Φ12.7 (1/2)	
	Gas pipe	mm	Φ22.2 (7/8)	
	Drain pipe	mm	19mm (20mm Pressure Pipe with R1 Adapter)	
Maximum distance from outdoor		m	Engineering required above 50m	Engineering required above 60m
Supply/Return Air Spigot Size (LxH)		mm	SA 1393 x 410 – RA 1393 x 410	

Please note earlier models of the HS-RAD-20 and HS-RAD-24 have a pipe size of 3/8 -7/8 – please check the serial number with SAI HVAC

Comfort Cube Series



Model			HS-QB-11	HS-QB-16
Power supply			220-240/1/50	
Cooling	Capacity	kW	10.5	15.5
	Power Input	W	380	700
Heating	Capacity	kW	11.5	16.8
	Power input	W	380	700
Air flow rate	Minimum	L/s	200	200
	Nominal		519	739
	Maximum		645	1050
External static pressure		Pa	100 (30~450)	
Unit	Net Dimensions (WxDxH)	mm	565 x 665 x 495	
	Packed Dimensions (WxDxH)	mm	820 x 980 x 510	
	Net/Gross weight	kg	52 / 59	
Connection Size	Liquid pipe	mm	Φ9.5 (3/8)	
	Gas pipe	mm	Φ15.9 (5/8)	
	Drain pipe	mm	32mm x 2 (20mm Pressure Pipe with Q1 Adapter)	
Maximum distance from outdoor		m	Engineering required above 30m	Engineering required above 40m
Supply/Return Air Spigot Size (LxH)		mm	SA 263 x 345 – RA 2 x Φ400	

Please note the earlier models of the HS-QB-11 and HS-QB-16 have a pipe size of 3/8-3/4 – please check the serial number with SAI HVAC



Model			HS-QB-20	HS-QB-24
Power supply			220-240/1/50	
Cooling	Capacity	kW	20	25
	Power Input	W	990	1200
Heating	Capacity	kW	22.5	26
	Power input	W	990	1200
Air flow rate	Minimum	L/s	250	
	Nominal		1200	
	Maximum		1200	
External static pressure		Pa	100 (30~350)	
Unit	Net Dimensions (WxDxH)	mm	765 x 718 x 490	
	Packed Dimensions (WxDxH)	mm	1190 x 980 x 520	
	Net/Gross weight	kg	65 / 72	
Connection Size	Liquid pipe	mm	Φ12.7 (1/2)	
	Gas pipe	mm	Φ22.2 (7/8)	
	Drain pipe	mm	32mm x 2 (20mm Pressure Pipe with Q1 Adapter)	
Maximum distance from outdoor		m	Engineering required above 50m	Engineering required above 60m
Supply/Return Air Spigot Size (LxH)		mm	SA 330 x 345 – RA 2 x Φ450	

Please note earlier models of the HS-QB-20 and HS-QB-24 have a pipe size of 3/8 -7/8 – please check the serial number with SAI HVAC

Outdoor Units

Single Phase Horizontal Discharge

11kW and 16kW



Model			HS-VRAF-H-11-1	HS-VRAF-H-16-1	
Power Supply		V-Ph-Hz	220-240v~50Hz		
Cooling	Capacity	kW	10.5 (2~11)	15.5 (2~16)	
	Power input	kW	2.64	5.35	
	EER		3.41	2.90	
Heating	Capacity	kW	11.5 (2~12)	16.8 (2~18)	
	Power input	kW	2.12	5.71	
	COP		4.29	3.20	
Outdoor Sound Level (sound pressure)		dB(A)	54	56	
Recommended Breaker Size		A	32	40	
Connectable Indoor Unit	Total Capacity	%	50-130 (without engineering)		
	Max Quantity		4	8	
Outdoor Dimensions	Net Dimensions (WxDxH)	mm	950 x 426 x 840	1040 x 523 x 865	
	Packing (WxDxH)	mm	1025 x 510 x 950	1120 x 560 x 980	
	Net/Gross Weight		Kg	72.5 / 82	95.4 / 105.4
Refrigerant	Type		R410a		
	Factory charge	Kg	3.49	4.94	
Pipe Connections	Liquid pipe	mm	Φ9.5 (3/8)		
	Gas Pipe	mm	Φ15.9 (5/8)		
	Total Pipe Length		m	30 (without engineering)	40 (without engineering)
	Outdoor unit Up	Max Diff.	6 (without engineering)	8 (without engineering)	
	Outdoor unit Down	in Level (m)	6 (without engineering)	8 (without engineering)	
Wiring Power Connections	Power wiring	mm ²	Check local standard		
	Signal wiring	mm ²	RS485 Standard 2 x twisted pair + ground + shield		
Ambient temperature range	Cooling	°C	-5~55		
	Heating	°C	-15~27		

Three Phase Horizontal Discharge

20kW and 24kW



Model			HS-VRAF-H-20-3	HS-VRAF-H-24-3
Power Supply		V-Ph-Hz	380-415/3/50	
Cooling	Capacity	kW	20	26.0
	Power input	kW	4.90	9.63
	EER		4.08	2.70
Heating	Capacity	kW	22.5	28.5
	Power input	kW	6.59	7.43
	COP		3.41	3.83
Outdoor Sound Level (sound pressure)		dB(A)	59	60
Recommended Breaker Size		A	25	25
Connectable Indoor unit	Total Capacity	%	50-130 (without engineering)	
	Max Quantity		12	12
Outdoor unit	Net dimensions (WxDxH)	mm	1120 x 528 x 1558	
	Packing (WxDxH)	mm	1270 x 565 x 1720	
	Net/Gross weight	mm	143 / 159	144 / 160
Refrigerant	Type		R410a	
	Factory	Kg	7.64	7.64
Piping Connections	Liquid pipe	mm	Φ9.5 (3/8)	Φ9.5 (3/8)
	Gas Pipe	mm	Φ19.1 (3/4)	Φ22.2 (7/8)
	Total pipe length	m	50 (without engineering)	60 (without engineering)
	Outdoor unit up	m	12 (without engineering)	15 (without engineering)
	Outdoor unit down	Max diff. in level (m)	12 (without engineering)	15 (without engineering)
Wiring power connections	Power wiring	mm ²	Check local standard	
	Signal wiring	mm ²	RS485 Standard 2 x twisted pair + ground + shield	
Ambient Temp. range	Cooling	°C	-15~46	
	Heating	°C	-15~24	

Three Phase Vertical Discharge

28kW and 34kW



Model			HS-VRAF-V-28-3	HS-VRAF-V-34-3
Power Supply		V-Ph-Hz	380-415/3/50	
Cooling	Capacity	kW	28.0	33.5
	Power input	kW	6.75	8.7
	EER		3.89	3.85
Heating	Capacity	kW	31.5 (5~32)	37.5 (6~40)
	Power input	kW	6.54	7.88
	COP		4.82	4.76
Sound pressure level	dB(A)		59	60
Recommended Breaker Size	A		32	32
Connectable Indoor Type	Total capacity	%	50-130 (without engineering)	
	Max Quantity		12	12
Outdoor Unit	Net Dimensions (WxDxH)	mm	990 x 790 x 1635	
Packing size (WxDxH)	Packing (WxDxH)	mm	1090 × 860 × 1805	
Net weight	kg		227	
Gross weight	Kg		242	
Refrigerant	Type		R410a	
	Factory charge	Kg	13.20	
Pipe connection Size	Liquid pipe	mm(Inch)	Φ12.7 (1/2)	Φ15.9 (5/8)
	Gas Pipe	mm(Inch)	Φ25.4 (1)	Φ28.6 (1 1/8)
	Total pipe length	m	60 (without engineering)	
	Outdoor unit Up	Max Diff.	15 (without engineering)	
	Outdoor unit down	in level	15 (without engineering)	
Wiring power connections	Power wiring	mm ²	Check local standard	
	Signal wiring	mm ²	RS485 Standard 2 x twisted pair + ground + shield	
Ambient Temp range		°C	-5~48	
			-20~24	



SAI HVAC Foot notes

- EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling).
- COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating).
- Refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.
- Sound Pressure Level at 3m distance is determined as the measured sound pressure at 3m perpendicular to the coil side of the condenser. Sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
- Measured based on ISO 3743-1, Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure.

Important Notes:

- Specifications are subject to change without notice.
- The Local Electricity Supply Authority may require limits on - starting current, running current and voltage drop, please check prior to purchasing.
- When the outdoor temperature exceeds the rated conditions, the cooling/heating capacities may decrease the rated nett values.
- Connection sizes provided are the size at the unit. Please measure all field pipe lengths and size pipe runs according to your field system design, taking into account the number of bends, pipe length and pipe lift. Please send any systems designs to service@saihvac.com.au to confirm optimum field pipe dimensions.

Warranty:

For full terms and conditions of SAI HVAC warranty, please refer to the warranty document located at www.compactcomfort.com