

# SUBMITTAL DATA SHEET

28 RT (H,Y)VAHP336B31S (Consists of two (H,Y)VAHP096B31S and two (H,Y)VAHP072B31S modules.)

<b>Job Name:</b>		<b>Location:</b>	
<b>Purchaser:</b>		<b>Order No.:</b>	
<b>Engineer:</b>			
<b>Submitted To:</b>	<b>For:</b>	<b>Ref:</b>	<b>Approval:</b>
<b>Submitted By:</b>			<b>Date:</b>
<b>Unit Designation:</b>		<b>Schedule No.:</b>	
		<b>Model No.:</b>	

**FEATURES:**

- Two-pipe system for ductless and ducted applications
- Inverter-driven scroll compressor
- Long refrigerant piping lengths – up to 3,280 feet total pipe run

**ACCESSORIES:**

- Piping Kit: for details see Pipe Accessories Submittal
- Hail/Snow Protection Hood: for details see Snow/Hail Guards Kit Submittal

**NOTES:**

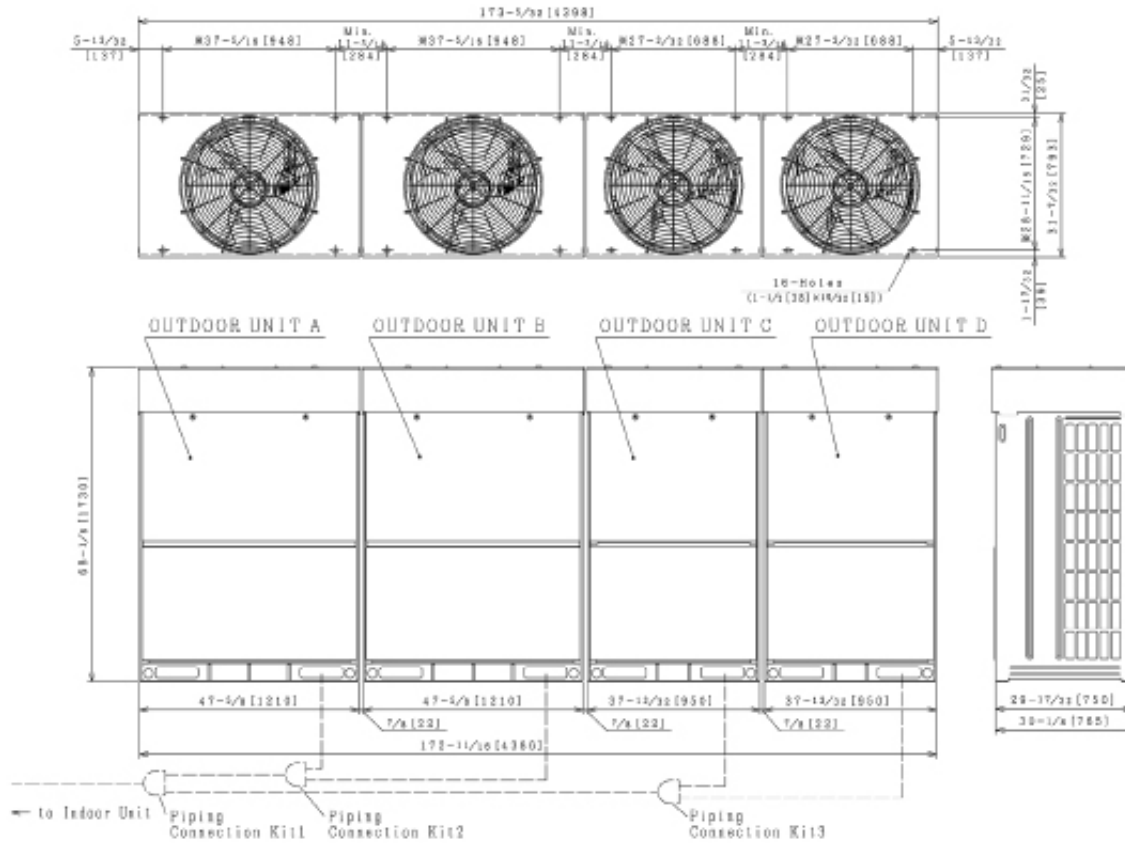
- \*1 Rating Conditions are based on the AHRI 1230 test standard.
- \*2 Operation under harsh weather requires additional accessories.
- \*3 External static pressure can be changed to 0.24in.W.G.(60Pa).

Category	Type		Quad Units	
	Ton		28RT (8RT+8RT+6RT+6RT)	
Model (combination)			(H,Y)VAHP336B31S	
Model (individual)	Unit A		(H,Y)VAHP096B31S	
	Unit B		(H,Y)VAHP096B31S	
	Unit C		(H,Y)VAHP072B31S	
	Unit D		(H,Y)VAHP072B31S	
Power Supply			208/230V/ 3PH 60Hz	
Cooling *1	Capacity	Btu/h	(kW)	320000 (93.9)
	EER	Btu/Wh	(W/W)	11.10 (3.26)
	Power input	kW		28.83
	Current input	A (208V/230V)		88.9 80.4
Cooling Operating Range	IEER	Btu/Wh	(W/W)	21.20 (6.22)
	Indoor	F WB (°C WB)	59(15)~73(23)	
	Outdoor	F DB (°C DB)	14(-10)~118(48) <sup>*1,*2</sup>	
Heating High *1	Capacity	Btu/h	(kW)	360000 (105.6)
	COP	W/W		3.87
	Power input	kW		27.29
Heating Low *1	Current input	A (208V/230V)		84.2 76.1
	Capacity	Btu/h	(kW)	268000 (78.6)
Heating Operating Range	COP	W/W		2.60
	Indoor	F DB (°C DB)	59(15)~80(27)	
	Outdoor	F WB (°C WB)	-4(-20)~59(15)	
Cabinet Color (Munsell Code)			2.5Y 8/2	
Outer Dimensions	Height	in	(mm)	68-1/8 (1730)
	Width	in	(mm)	173-5/32 (4398)
	Depth	in	(mm)	31-7/32 (793)
Package Dimensions	Height	in	(mm)	- -
	Width	in	(mm)	- -
	Depth	in	(mm)	- -
Weight	Net	lbs	(kg)	2540 (1152)
	Gross	lbs	(kg)	2747 (1246)
Connection Ratio	Tota Indoor Unit Capacity	%		140 - 65
	Max. (Recommendation) indoor units/system			64 (38)
Heat Exchanger	Type			Multi-Pass Cross-Finned Tube
	Material			Anti-corrosion/Cu-Al
Compressor	Type	Inverter		DA65PHD x 4
		Fix Speed		E655DH x 2
	Motor Output(Pole)	kW (Pole)		4.8(6)+4.4(2)
	Start Method	-		inverter
	Operation Range	%		5~100
	Refrigeration Oil Type	-		FVC68D
Crank Case Heater	W x Q'ty		40.8(230V) x 12	
Fan	Type	-		Propeller Fan
	Motor Output(Pole)	kW (Pole)		1.2(10) x 2+0.75(8) x 2
	Quantity	Q'ty		4
	Air Flow Rate	cfm	(m <sup>3</sup> /min)	6884+6884 (195+195) +6178+6178 +175+175)
	External static pressure *3	in.WG	(Pa)	0 (0)
Electrical	Drive			Direct-drive
	Min Circuit Amps	A		-
	Recommended Fuse/Breaker Size	A		-
Control	Maximum Fuse Size	A		-
	Type-Qty			AWG18-2
Sound Pressure Level	Maximum length	Ft	(m)	3,280(1000)
	Cooling (Night-Shift)	dB(A)		68 (63)
	Heating	dB(A)		68
Protection devices	Cycle			High pressure switch at 4.15(601psi)
	Inverter			Over-current protection
	Compressor			Over-heat protection
	PCB			Over-current protection
Refrigerant	Type-Qty	-		R410A
	Charge amount	lb	(kg)	18.7+18.7 (8.5+8.5) +16.1+16.1 +7.3+7.3)
Refrigeration Oil	Charge amount	gal/Unit	(L/Unit)	2.1+2.1+1.6 (7.9+7.9) +1.6 +6.0+6.0)
Defrost Method				Reversed Refrigerant cycle
Main Refrigerant Piping (Heat Pump)	Gas Line (High/Low)	in	(mm)	1-5/8 (41.28)
	Liquid Line	in	(mm)	3/4 (19.05)

# System Dimensions

Heat Pump Type

Model: (H,Y)VAHP336B31S



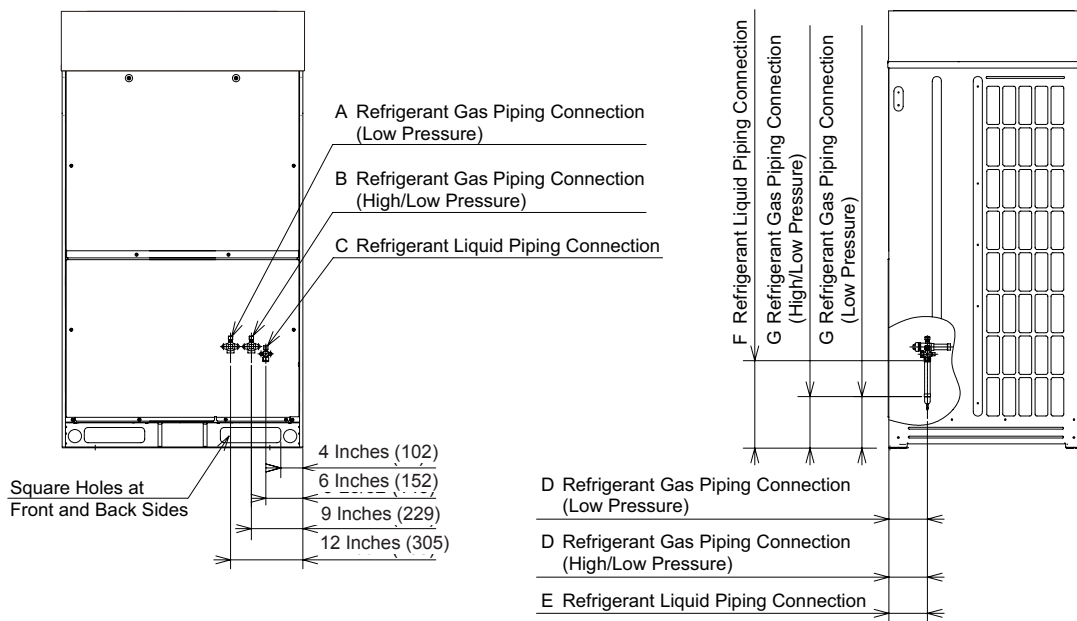
Outdoor Unit Model	Combination of Base Unit Models			
	OUTDOOR UNIT A	OUTDOOR UNIT B	OUTDOOR UNIT C	OUTDOOR UNIT D
(H, Y) VAHP336B31S	(H, Y) VAHP096B31S	(H, Y) VAHP096B31S	(H, Y) VAHP072B31S	(H, Y) VAHP072B31S
(H, Y) VAHP336B41S	(H, Y) VAHP096B41S	(H, Y) VAHP096B41S	(H, Y) VAHP072B41S	(H, Y) VAHP072B41S
(H, Y) VAHP300B31S	(H, Y) VAHP120B31S	(H, Y) VAHP096B31S	(H, Y) VAHP072B31S	(H, Y) VAHP072B31S
(H, Y) VAHP300B41S	(H, Y) VAHP120B41S	(H, Y) VAHP096B41S	(H, Y) VAHP072B41S	(H, Y) VAHP072B41S

**NOTES:**

1. Make sure that the outdoor unit A is placed on the indoor unit side. Arrange the outdoor units according to the capacity, A>B>C>D.
2. Check "Installation Manual" for the piping connection kit and piping connection size.
3. This drawing shows that there is 7/8 inch (22mm) clearance between the base units. In case of the outdoor unit with "Snow Protection Hood (Optional Parts)" or "Air Outlet Duct (Field-Supplied)", the clearance between the base units of more than 1-31/32 inch (50mm) is required.
4. The dimensions marked with ⌀ indicates the mounting pitch dimension for anchor bolts.
5. The width of outer dimension and anchor bolt mounting position are changed by clearance between the base units.

# Piping Connection Dimensions

Unit: inch (mm)



Model Type	Field Piping (*)					A	B	C	D	E	F	G
	Heat Recovery System		Heat Pump System		Liquid							
	Low Pressure Gas	High/Low Pressure Gas	Low Pressure Gas	High/Low Pressure Gas								
72	1-1/8 (28.58)	7/8 (22.2)	-	1-1/8 (28.58)	1/2 (12.7)	7/8 (22.2)	7/8 (22.2)	3/8 (9.52)	5-29/32 (150)	5-29/32 (150)	13-3/8 (340)	8-1/16 (205)
96	1-1/8 (28.58)	7/8 (22.2)	-	1-1/8 (28.58)	1/2 (12.7)	1 (25.4)	1 (25.4)	1/2 (12.7)	6-11/16 (170)	6-11/16 (170)	12-25/32 (325)	7-7/8 (200)
120	1-1/8 (28.58)	7/8 (22.2)	-	1-1/8 (28.58)	1/2 (12.7)	1 (25.4)	1 (25.4)	1/2 (12.7)	6-11/16 (170)	6-11/16 (170)	12-25/32 (325)	7-7/8 (200)

\*Using the accessory pipe (refer to Table 3.6 "Factory-Supplied Accessories"), combine the piping size.

Figure 6.2 Refrigerant Piping Connection



version 201702