

SUBMITTAL DATA SHEET

8 RT (H,Y)VAHP096B41S (Consists of one (H,Y)VAHP096B41S module.)

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

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:

- Rating Conditions are shown as below with piping length 24 feet 7-3/16 inch, piping height 0 feet.
 - Cooling**
Indoor Air Inlet Temperature: 80 DB, 67F WB
Outdoor Air Inlet Temperature: 95F DB
 - Heating**
Indoor Air Inlet Temperature: 70 F DB
Outdoor Air Inlet Temperature: 47F DB, 43F WB
- Rating Conditions are based on the AHRI 1230 test standard.
- For more details, please refer to Engineering manual "Operation range" section.
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- External static pressure can be changed via DSW setting 0.24 in.W.G. (60Pa).

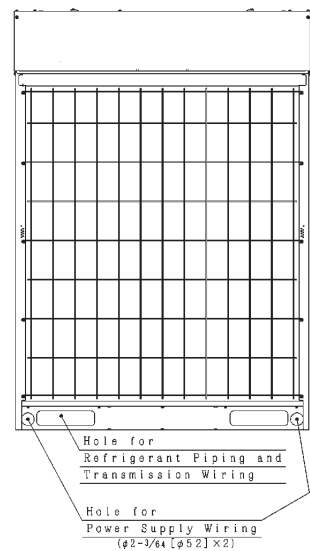
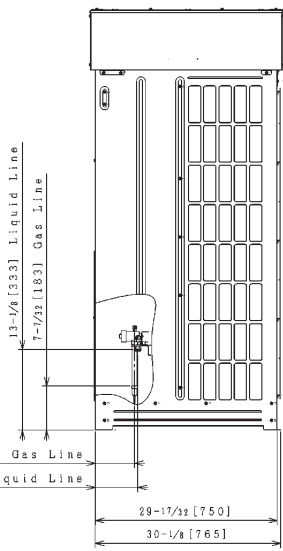
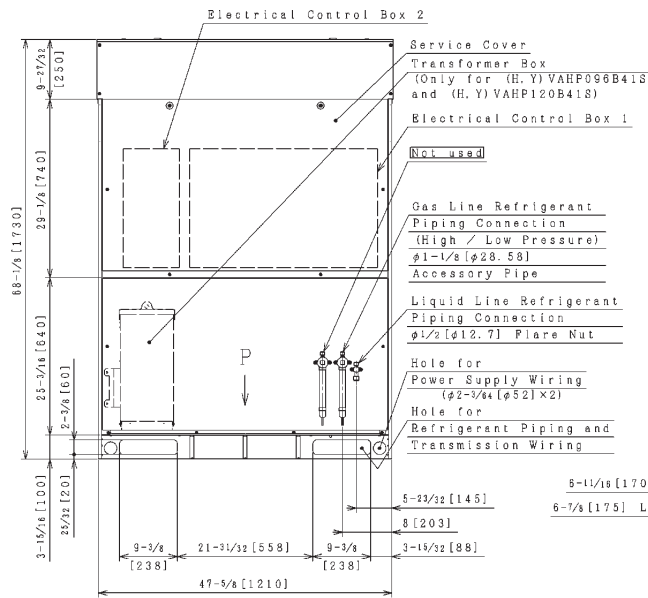
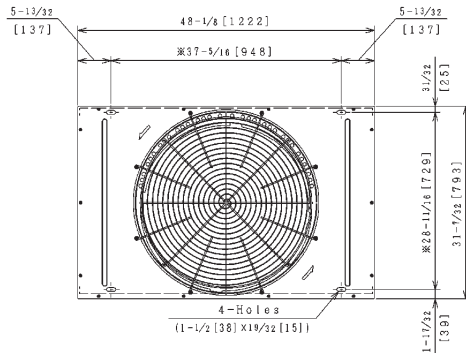
Category		Ton		8RT		
Model (combination)		(H,Y)VAHP096B41S				
Model (individual)		Unit A		-		
		Unit B		-		
		Unit C		-		
		Unit D		-		
Power Supply		460V/ 3PH 60Hz				
Capacity (Nominal) ¹	Cooling	Capacity (Nominal)	Btu/h	(kW)	96,000 (28.1)	
		Power input	kW			7.61
		Current input	A			10.6
	Heating	Capacity (Nominal)	Btu/h	(kW)	108,000 (31.7)	
		Power input	kW			7.33
		Current input	A			11.1
Efficiency Ratings ²	Cooling	Capacity (Rated)	Btu/h	(kW)	92,000 (27.0)	
		EER	Btu/Wh	(W/W)	13.10 (3.84)	
		IEER	Btu/Wh	(Wh/Wh)	21.40 (6.28)	
	Heating	Capacity (Rated)	Btu/h	(kW)	103,000 (30.2)	
		COP	W/W			3.88
		Capacity	Btu/h	(kW)	76,000 (22.3)	
Cooling Operating Range	Indoor	°F WB (°C WB)		59(15)~73(23)		
	Outdoor ³	°F DB (°C DB)		14(-10)~118(48)		
Heating Operating Range	Indoor	°F DB (°C DB)		59(15)~80(27)		
	Outdoor ⁴	°F WB (°C WB)		-4(-20)~59(15)		
Cabinet Color (Munsell Code)		-		2.5Y 8/2		
Outer Dimensions (H x W x D)		in		68-1/8 x 37-7/8 x 31-7/32		
Package Dimensions (H x W x D)		in		74-1/4 x 40-5/8 x 34-1/32		
Weight	Net	lbs	(kg)	796	(361)	
	Gross	lbs	(kg)	853	(387)	
Connection Ratio		Total Indoor Unit Capacity		%		
		Max. (Recommendation) indoor units/system		135 - 65		
				21 (16)		
Heat Exchanger	Type	-		Multi-Pass Cross-Finned Tube		
	Material	-		Cu-Al (Anti-corrosion)		
Compressor	Type	Inverter		-		
		Fixed Speed		-		
	Motor Output (Pole)	kW (Pole)		4.8(6)+4.4(2)		
	Start Method	-		inverter		
	Operation Range	%		16~100		
	Refrigeration Oil Type	-		FVC68D		
Crank Case Heater		W×Q'ty		40.8(230V)×4		
Fan	Type	-		Propeller Fan		
	Motor Output (Pole)	kW (Pole)		0.66(8)		
	Quantity	Q'ty		1		
	Air Flow Rate	cfm	(m ³ /min)	6884	(195)	
	External static pressure ⁵	in.WG	(Pa)	0 (0)		
	Drive	-		Direct-drive		
Electrical	Min Circuit Amps	A		21		
	Recommended Fuse/Breaker Size	A		30		
	Maximum Fuse Size	A		30		
Sound Pressure Level	Cooling (Night-Shift)	dB(A)		62	(57)	
	Heating	dB(A)		62		
Protection devices	Cycle	-		High pressure switch at 601psi (4.15MPa)		
	Inverter	-		Over-current protection		
	Compressor	-		Over-heat protection		
	PCB	-		Over-current protection		
Refrigerant	Type	-		R410A		
	Charge amount	lbs	(kg)	18.7	(8.5)	
Refrigeration Oil	Charge amount	gal/Unit	(#/Unit)	2.1	(7.9)	
Defrost Method		- Reversed Refrigerant cycle				
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line	in	(mm)	1-1/8	(28.58)	
	Liquid Line	in	(mm)	1/2	(12.7)	

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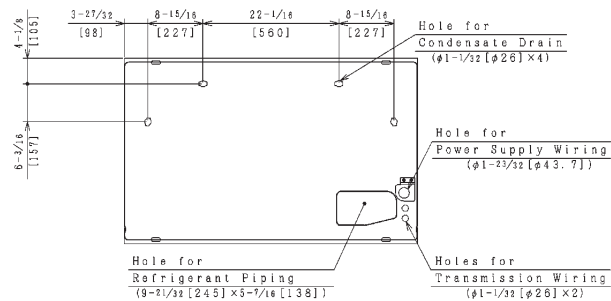
System Dimensions

Heat Pump Type

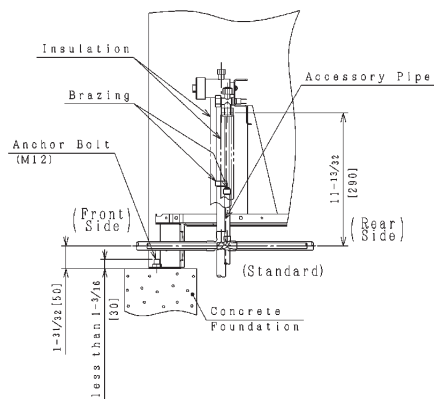
Model: (H,Y)VAHP096B41S



Viewed from P



Field Installation (Example)



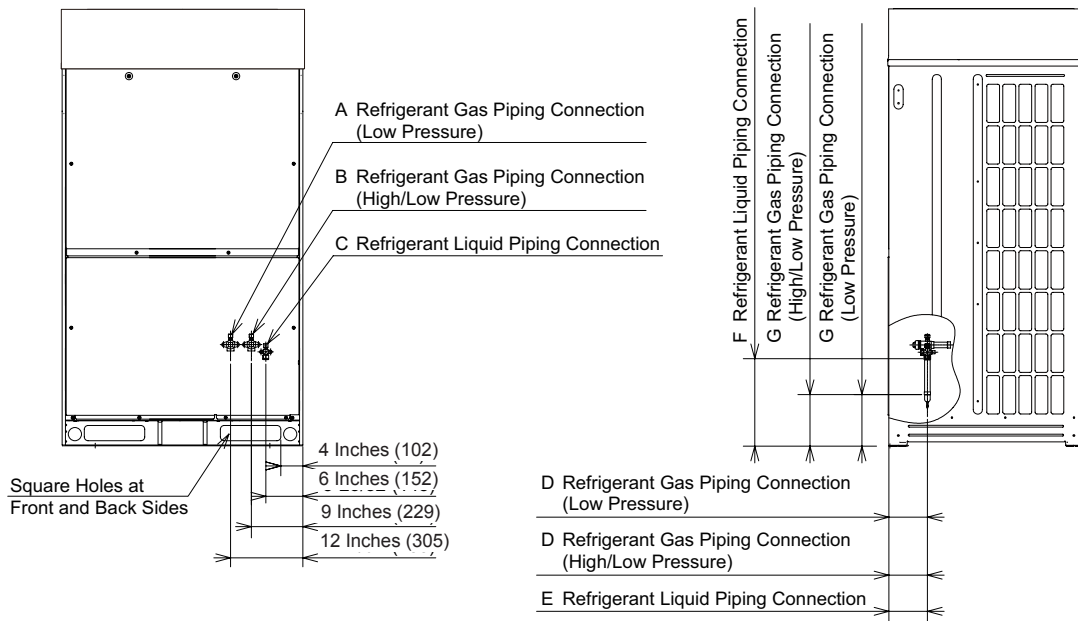
NOTES:

1. Drain water is discharged from the unit during the operation.
 - Ⓞ Choose a place where well drainage is available. Provide a groove for drain.
 - Ⓞ Do not provide an upward slope from the unit to avoid reverse flow of the drain.
 - Provide a second drainpan under the outdoor unit, to collect drain water securely.
 - Ⓞ Do not use the drain boss (optional) in a cold area.
 - (Drain water in the drain pipe may be frozen and the drain pipe may crack.)
2. The dimensions marked with ※ indicates the mounting pitch dimension for anchor bolts.

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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



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