

SUBMITTAL DATA SHEET

6 RT (H,Y)VAHP072B41S (Consists of one (H,Y)VAHP072B41S module.)

Job Name:			Location:		
Purchaser:			Order No.:		
Engineer:					
Submitted To:		For:	Ref:	Approval:	
Submitted By:			Date:		
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:

1. 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
2. Rating Conditions are based on the AHRI 1230 test standard.
3. For more details, please refer to Engineering manual "Operation range" section.
4. For more details, please refer to Engineering manual "Operation range" section.
5. External static pressure can be changed via DSW setting 0.24 in.W.G. (60Pa).

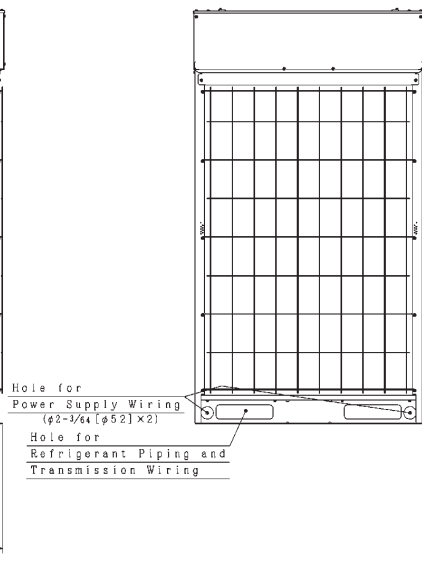
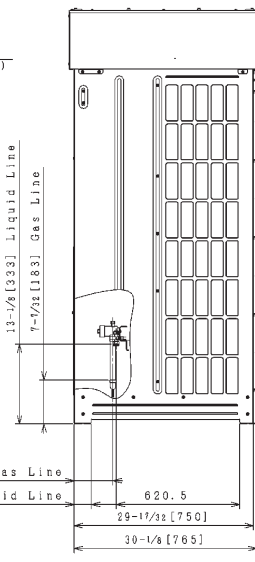
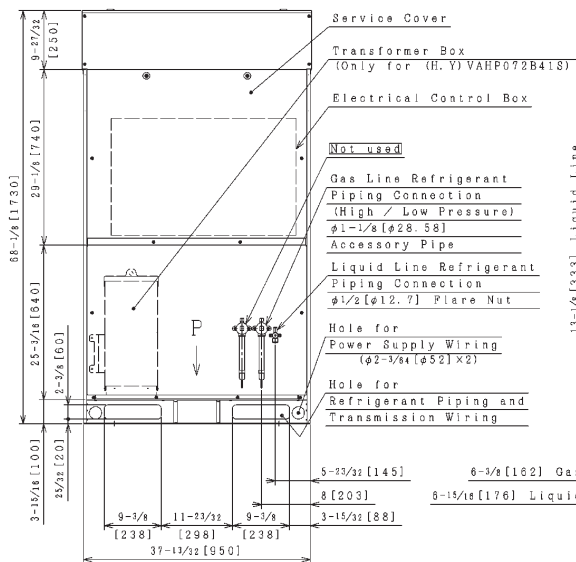
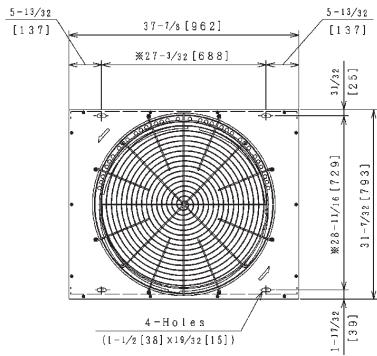
Category		Ton		6RT	
Model (combination)				(H,Y)VAHP072B41S	
Model (individual)		Unit A		-	
		Unit B		-	
		Unit C		-	
		Unit D		-	
Power Supply				460V/ 3PH 60Hz	
Capacity (Nominal) ¹	Cooling	Capacity (Nominal)	Btu/h	(kW)	96,000 (28.1)
		Power input	kW		7.61
		Current input	A		10.6
	Heating	Capacity (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)	69,000 (20.2)
		EER	Btu/Wh	(W/W)	15.30 (4.49)
		IEER	Btu/Wh	(Wh/Wh)	24.80 (7.27)
	Heating	Capacity (Rated)	Btu/h	(kW)	76,000 (22.3)
		COP	W/W		4.14
		Capacity	Btu/h	(kW)	55,000 (16.1)
	COP	W/W		2.48	
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)	606 (275)	
	Gross	lbs	(kg)	653 (296)	
Connection Ratio		Total Indoor Unit Capacity %		150 - 70	
		Max. (Recommendation) indoor units/system		18 (10)	
Heat Exchanger	Type			Multi-Pass Cross-Finned Tube	
	Material			Cu-Al (Anti-corrosion)	
Compressor	Type	Inverter		DA65PHD×1	
		Fixed Speed		-	
	Motor Output (Pole)	kW (Pole)		7.2(6)	
	Start Method			inverter	
	Operation Range	%		20~100	
	Refrigeration Oil Type			FVC68D	
Crank Case Heater		W×Q'ty		40.8(230V)×2	
Fan	Type			Propeller Fan	
	Motor Output (Pole)	kW (Pole)		0.49(6)	
	Quantity	Q'ty		1	
	Air Flow Rate	cfm	(m ³ /min)	6178	(175)
	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)		60 (55)	
	Heating	dB(A)		60	
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)	16.1	(7.3)
Refrigeration Oil	Charge amount	gal/Unit	(l/Unit)	1.6	(6.0)
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

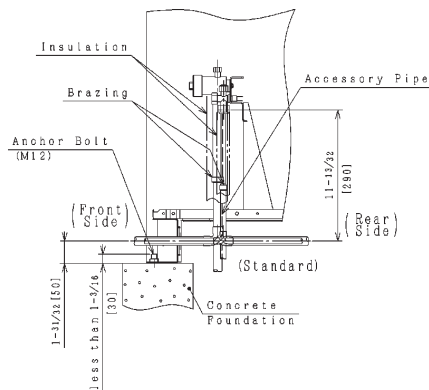
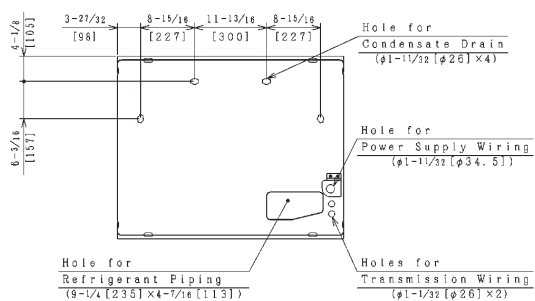
Heat Pump Type

Model: (H,Y)VAHP072B41S



Viewed from P

Field Installation (Example)



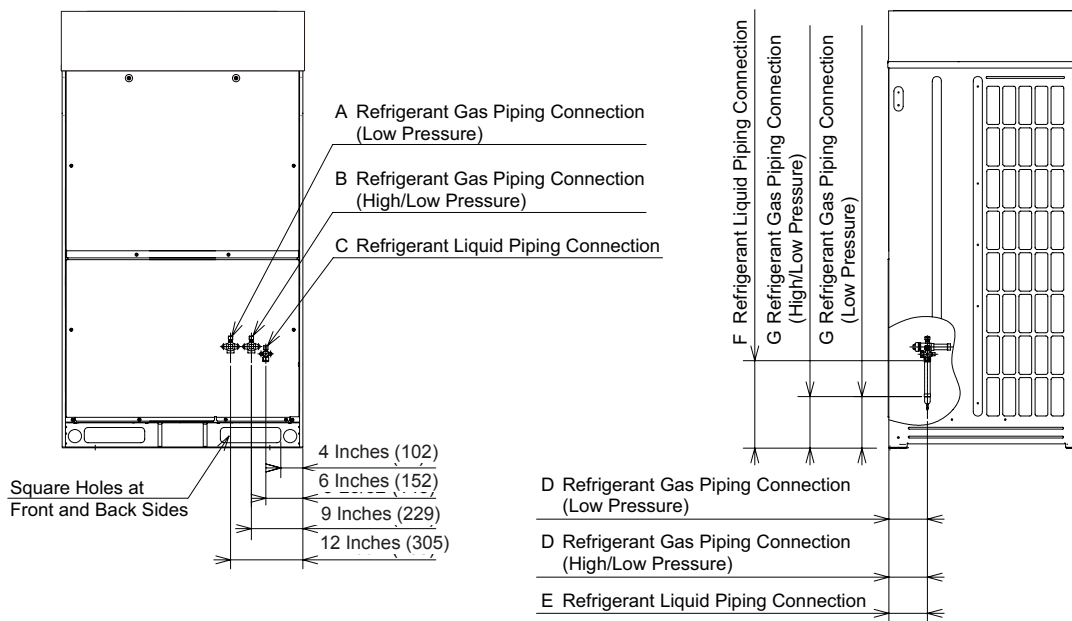
NOTES:

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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