SUBMITTAL DATA SHEET

6 RT (H,Y)VAHP072B31S (Consists of one (H,Y)VAHP072B31S module.)

Job Name:		**Location:**	
Purchaser:		**Order No.:**	
Engineer:			
Submitted To:	**For:** **Ref:**	**Approval:**	**Construction:**
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:

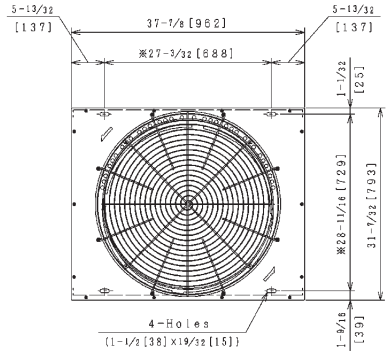
*1 Rating Conditions are based on the AHRI 1230 test standard.
*2 Operation under harsh weather requires additional accessories.
*3 External static pressure can be changed to 0.24in.W.G.(60Pa).

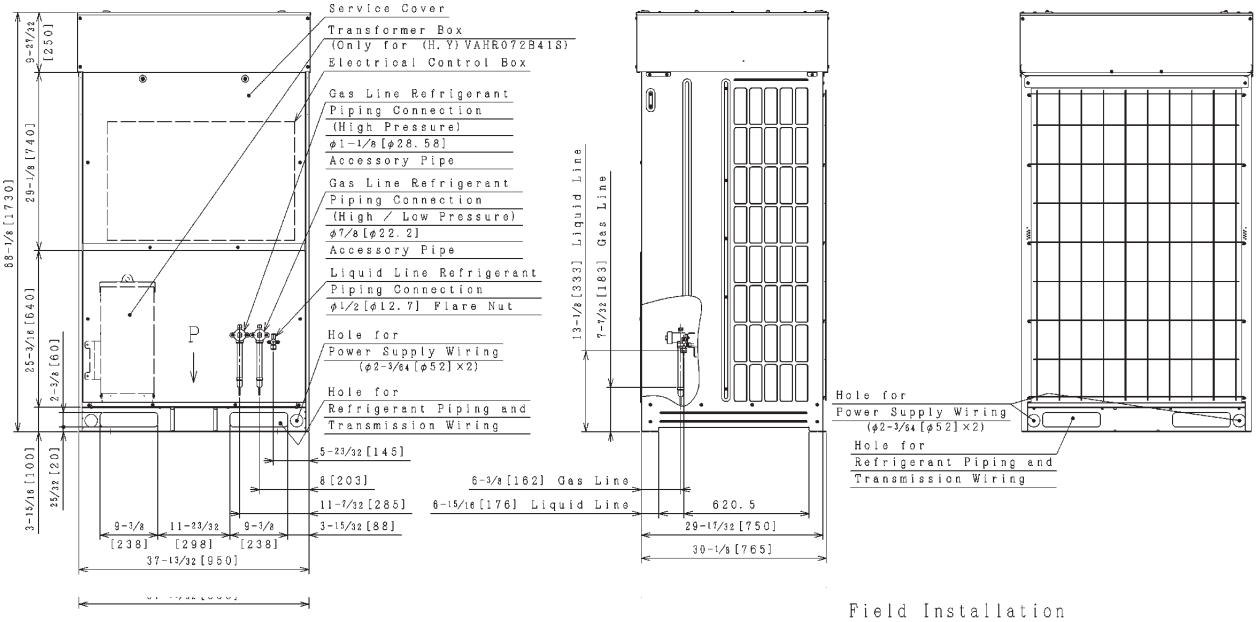
Category	Type / Ton			Single Unit / 6RT	
Model(combination)				(H,Y)VAHP072B31S	
Model(individual)	Unit A			–	
	Unit B			–	
	Unit C			–	
	Unit D			–	
Power Supply				208/230V/ 3PH 60Hz	
Cooling *1	Capacity	Btu/h	(kW)	69000	(20.2)
	EER	Btu/Wh	(W/W)	15.60	(4.58)
	Power input	kW		4.42	
	Current input	A(208V/230V)		13.6	12.3
	IEER	Btu/Wh	(W/W)	25.20	(7.39)
Cooling Operating Range *2	Indoor	F WB	(℃ WB)	59(15)～73(23)	
	Outdoor	F DB	(℃ DB)	14(-10)～118(48) *1	
Heating High *1	Capacity	Btu/h	(kW)	76000	(22.3)
	COP	W/W		4.21	
	Power input	kW		5.30	
	Current input	A(208V/230V)		16.3	14.8
Heating Low *1	Capacity	Btu/h	(kW)	55000	(16.1)
	COP	W/W		2.60	
Heating Operating Range *2	Indoor	F DB	(℃ DB)	59(15)～80(27)	
	Outdoor	F WB	(℃ 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)	37-7/8	(962)
	Depth	in	(mm)	31-7/32	(793)
Package Dimensions	Height	in	(mm)	74-1/4	(1886)
	Width	in	(mm)	40-5/8	(1032)
	Depth	in	(mm)	34-1/32	(864)
Weight	Net	lbs	(kg)	540	(245)
	Gross	lbs	(kg)	587	(266)
Connection Ratio	Tota Indoor Unit Capacity	%		150 – 70	
	Max. (Recommendation) indoor units/system			18(10)	
Heat Exchanger	Type			Multi-Pass Cross-Finned Tube	
	Material			Anti-corrosion/Cu-Al	
Compressor	Type	Inverter		DA65PHD×1	
		Fix 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)		0.75(8)	
	Quantity	Q'ty		1	
	Air Flow Rate	cfm	(m^3/min)	6178	(175)
	External static pressure *3	in.WG	(Pa)	0 (0)	
	Drive			Direct-drive	
Electrical	Min Circuit Amps	A		41/37	
	Recommended Fuse/Breaker Size	A		60/50	
	Maximum Fuse Siza	A		60/50	
Control	Type-Qty			AWG18-2	
	Maximum length	Ft	(m)	3,280(1000)	
Sound Pressure Level	Cooling(Night-Shift)	dB(A)		60	(55)
	Heating	dB(A)		60	
Protection devices	Cycle			High pressure switch at 4.15(601psi)	
	Inverter			Over-current protection Over-heat protection	
	Compressor			Over-heat protection	
	PCB			Over-current protection	
Refrigerant	Type-Qty	—		R410A	
	Charage amount	lb	(kg)	16.1	(7.3)
Refrigeration Oil	Charage amount	gal/Unit	(L/Unit)	1.6	(6.0)
Defrost Method				Reversed Refrigerant cycle	
Main Refrigerant Piping (Heat Pump)	Gas Line (High/Low)	in	(mm)	1-1/8	(28.58)
	Liquid Line	in	(mm)	1/2	(12.7)

Effective date 201612

System Dimensions

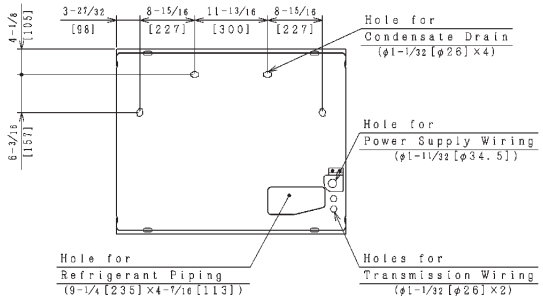
Heat Pump Model:
(H,Y)VAHP072B31S

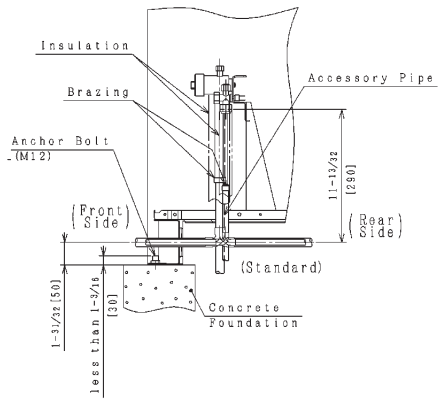




Field Installation
(Example)

Viewed from P



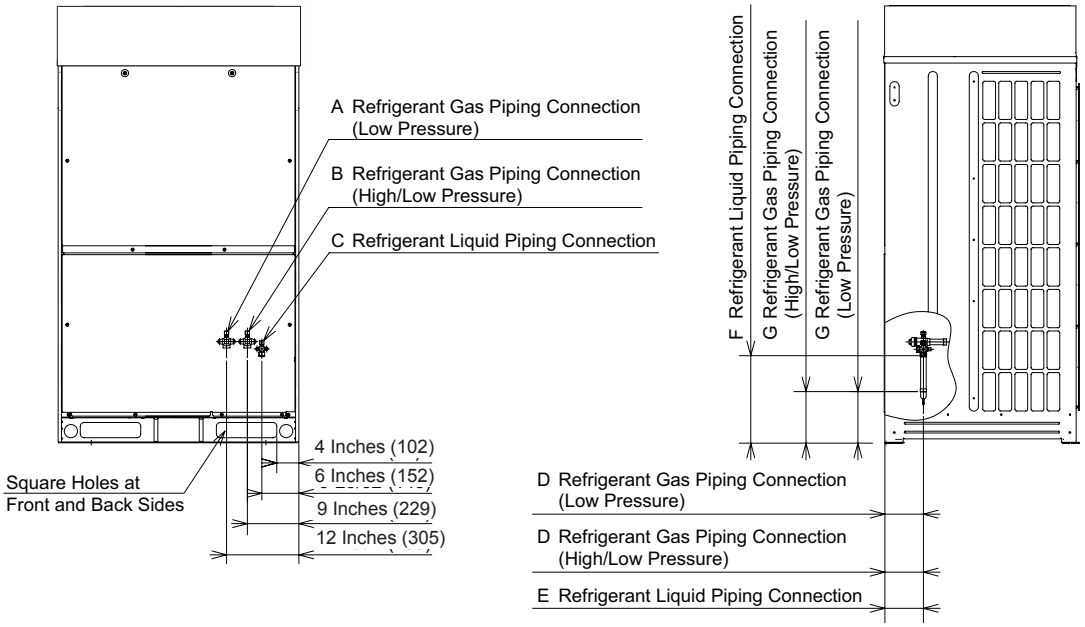


NOTES:

1. Drain water is discharged from the unit during the operation.
   ①Choose a place where well drainage is available. Provide a groove for drain.
   ②Do 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.
   ③Do 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.

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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