Submittal Data Sheet

(H,Y)VAHP096B31CW (Consists of one (H,Y)VAHP096B31CW module)

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

FEATURES

- Defrosting interval can be extended up to a maximum of 250 minutes
- Automatic selection of either all-cool or all-heat operation up to 50 zones
- 60%-110% connectable capacity
- Extreme performance provides more than 95% heating output at -4°F and 80% heating capacity at -13°F
- Connects to VRF indoor units; Controlled via H-Link II Controls Network

ACCESSORIES

- Drain Adaptor, DBS-TP10A
- Protection Net (Rear), PN-TP10BB
- Protection Net (Left), PN-TP10L
- Protection Net (Right), PN-TP10R
- Hail/Snow Protection Hood (Right), ASG-TP20RS2
- Hail/Snow Protection Hood (Left), ASG-TP20LS2
- Hail/Snow Protection Hood (Upper), ASG-TP20FBS1
- Hail/Snow Protection Hood (Rear), ASG-TP20BBS1
- Toppling Prevention Tool, ASG-SW20A

Model (combination)						
					(H,Y)VAHP096B31CW	
Model (individual)		Unit A			-	
		Unit B			-	
		Unit C			-	
Power Supply					208/230V/ 3PH 60Hz	
Capacity (Nominal) *1	Cooling	Capacity (Nominal)	Btu/h	(kW)	96,000	(28.1)
		Power input	kW		9.61	
		Current input	A (208/230V)		27.2 / 25.9	
	Heating	Capacity (Nominal)	Btu/h	(kW)	108,000	(31.7)
		Power Input	kW		8.08	
		Current Input	A (208/230V)		23.1 / 21.8	
Efficiency Ratings *2	Cooling	Capacity (Rated)	Btu/h	(kW)	92,000	(27.0)
		EER	Btu/Wh	(W/W)	11.90	(3.49)
		IEER	Btu/Wh	(Wh/Wh)	18.90	(5.54)
	Heating High	Capacity (Rated)	Btu/h	(kW)	103,000	(30.2)
		COP	W/W		3.80	
	Heating Low	Capacity	Btu/h	(kW)	87,000	(25.5)
		COP	W/W		2.42	
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 *3	°F WB (°C WB)		-13(-25)～59(15)	
Cabinet Color (Munsell Code)			-		2.5Y 8/2	
Outer Dimensions (H x W x D)			in		68-1/8 x 48-1/8 x 31-1/4	
Package Dimensions (H x W x D)			in		74-1/4 x 50-7/8 x 34	
Weight	Net		lbs	(kg)	699	(317)
	Gross		lbs	(kg)	756	(343)
Connection Ratio	Total Indoor Unit Capacity		%		110 - 60	
	Max. (Recommendation) indoor units/system				16（10）	
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube	
	Material		-		Cu-Al (Anti-corrosion)	
Compressor	Type	Inverter	-		EK655DHD×1	
		Fixed Speed	-		EK655DH×1	
	Motor Output (Pole)		kW (Pole)		3.2(4)+3.0(2)	
	Start Method		-		inverter	
	Operation Range		%		14～100	
	Refrigeration Oil Type		-		FVC68D	
Crank Case Heater			W×Q'ty		40.8（230V）×6	
Fan	Type		-		Propeller Fan	
	Motor Output (Pole)		kW (Pole)		0.66(8)	
	Quantity		Q'ty		1	
	Airflow Rate		cfm	(m^3/min)	6884	(195)
	External Static Pressure *4		in.WG	(Pa)	0 (0)	
	Drive		-		Direct-drive	
Electrical	Min Circuit Amps		A		51/46	
	Max Overcurrent Protective Device		A		72/65	
	Maximum Fuse Size		A		70/60	
Sound Pressure Level	Cooling (Night-Shift)		dB (A)		60	(56)
	Heating		dB (A)		61	
Protection devices	Cycle		-		High pressure switch at 601psi (4.15MPa)	
	Inverter		-		Over-current protection Over-heat protection	
	Compressor		-		Over-heat protection	
	PCB		-		Over-current protection	
Refrigerant	Type		-		R410A	
	Charge Amount		lbs	(kg)	17.0	(7.7)
Refrigeration Oil	Charge Amount		gal/Unit	(L/Unit)	2.1	(7.9)
Defrost Method			-		Reversed Refrigerant cycle Hot Gas Bypass	
Main Refrigerant Piping (Heat Pump)	Gas Line		in	(mm)	7/8	(22.2)
	Liquid Line		in	(mm)	3/8	(9.52)

Note:

1. Rating conditions are shown below with Piping length 24 ft 7 3/16 in, piping lift 0 ft.
Cooling: Indoor Air Inlet Temp: 80DB, 67°F WB
Outdoor Air Inlet Temp: 95°F DB
Heating: Indoor Air Inlet Temp: 70°F DB
Outdoor Air Inlet Temp: 47°F DB, 43F WB

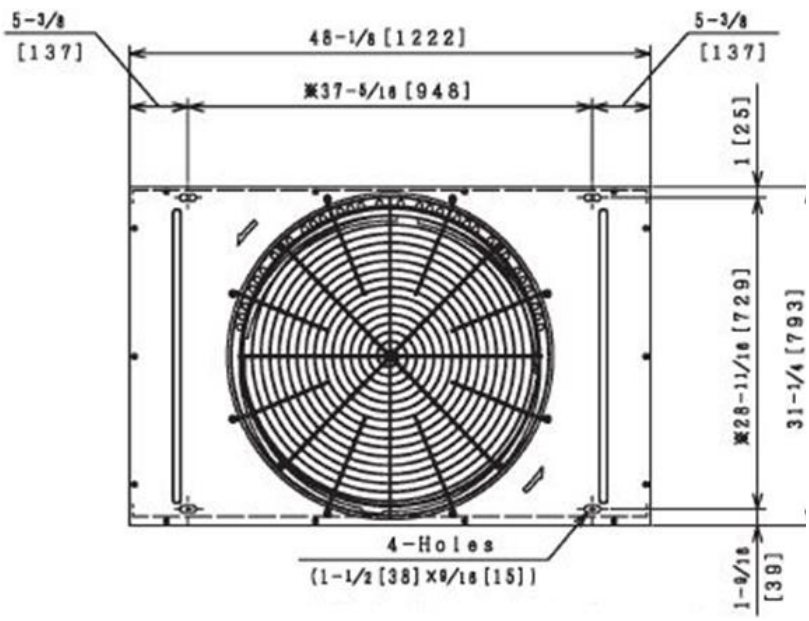
2. Rating Conditions are based on the AHRI 1230 test standard

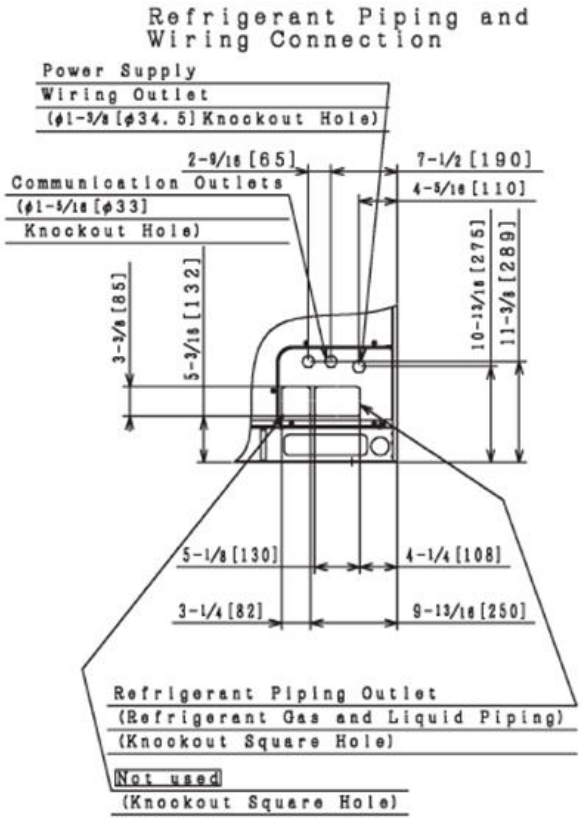
3. For more details, please refer to Engineering Manual “Operation Range” section

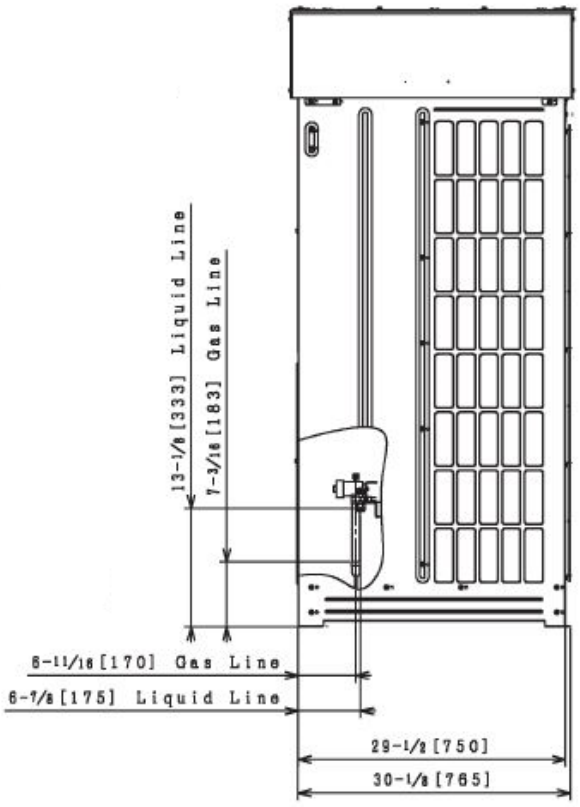
4. External static pressure can be changed via DSW setting 0.24 in. W.G. (60Pa)

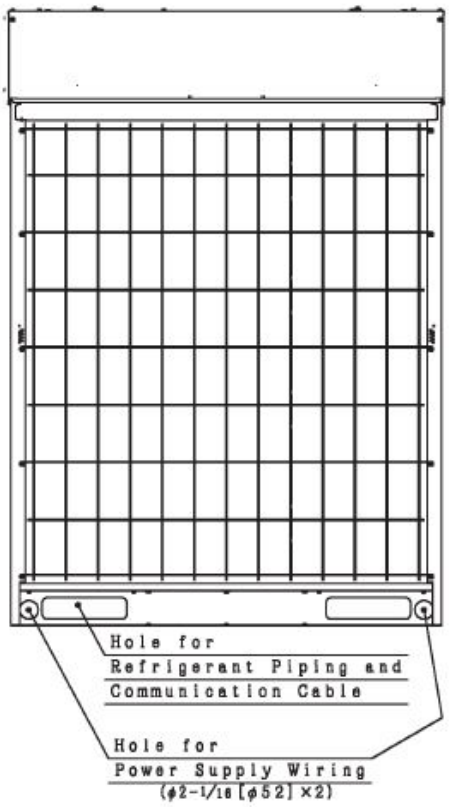
System Dimensions

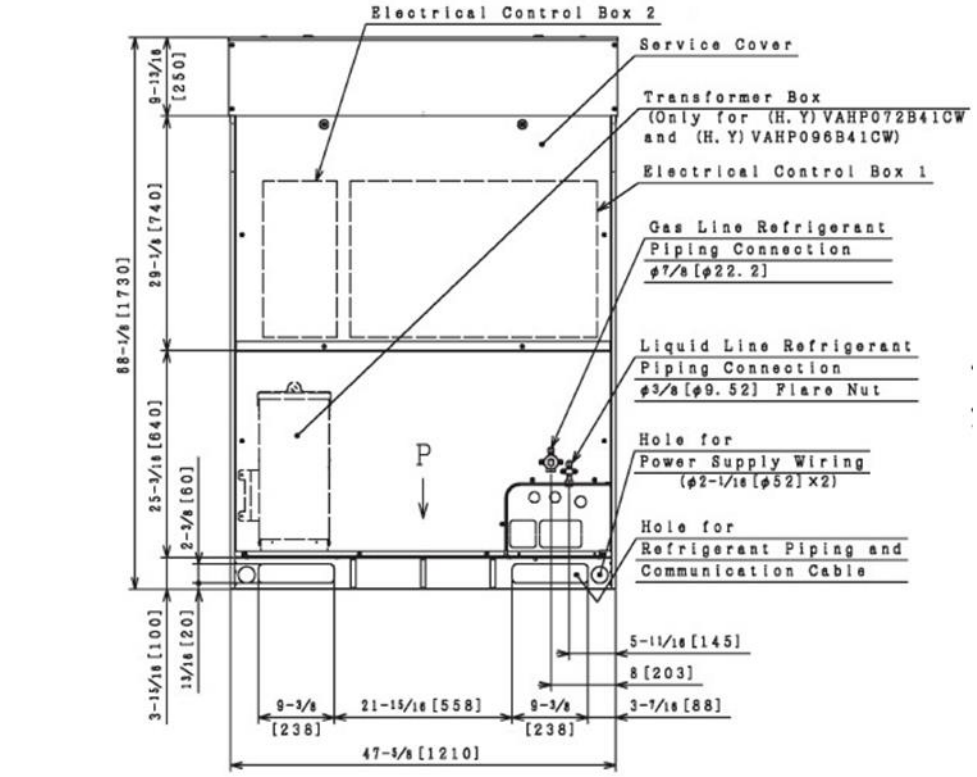
Heat Pump Type
Model: (H,Y)VAHP096B31CW

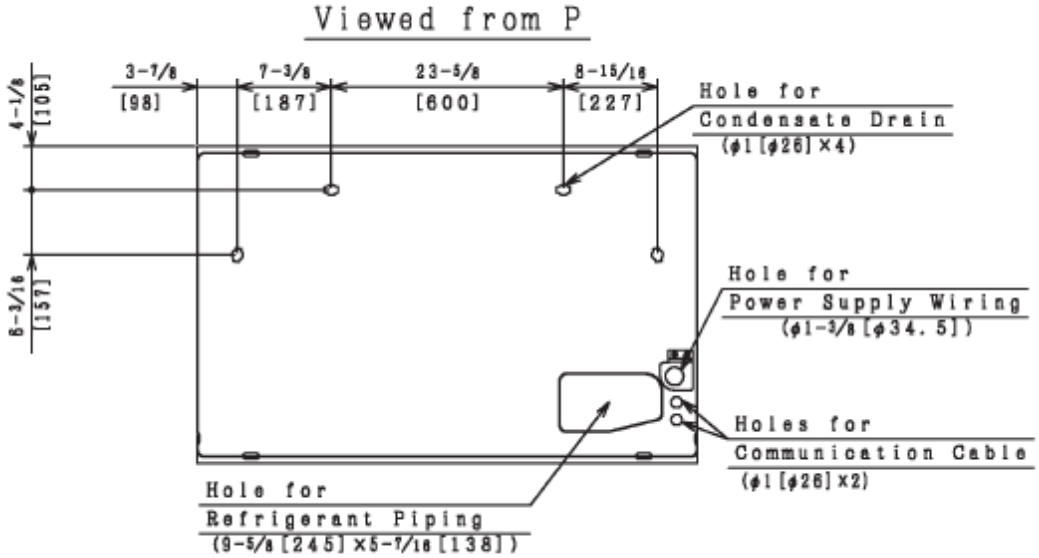












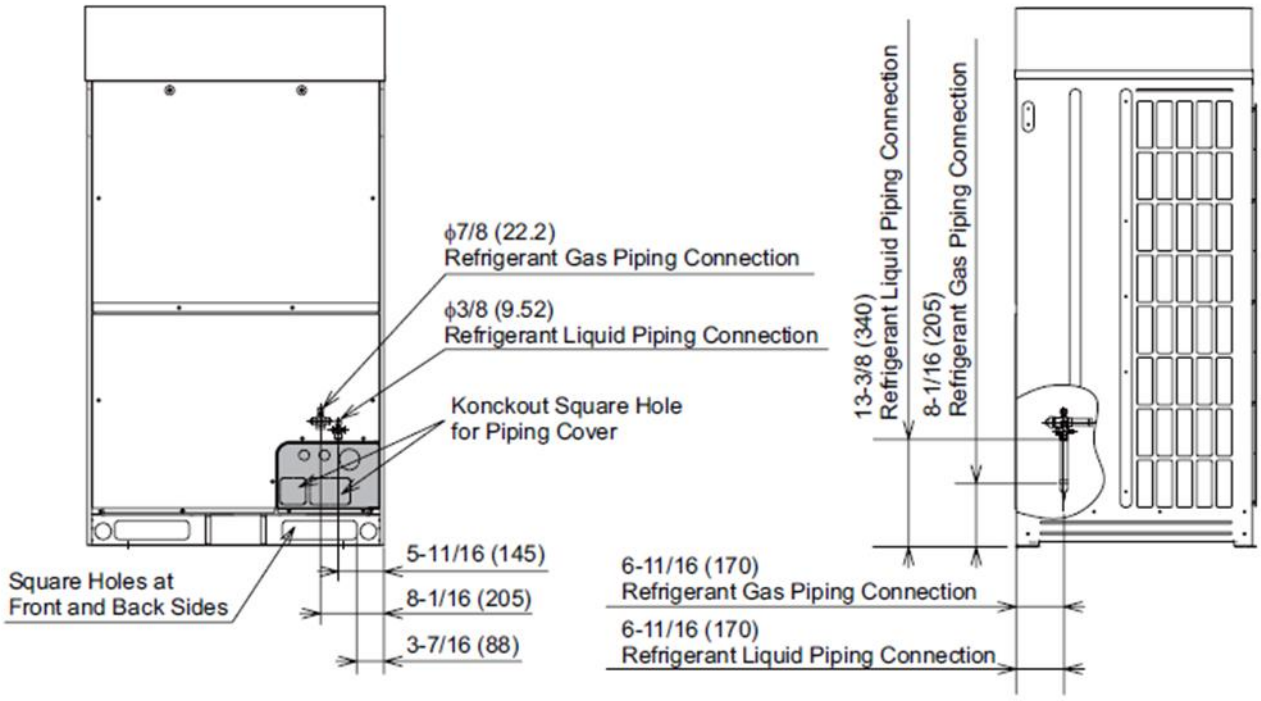
Notes:

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 drain pan 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.)

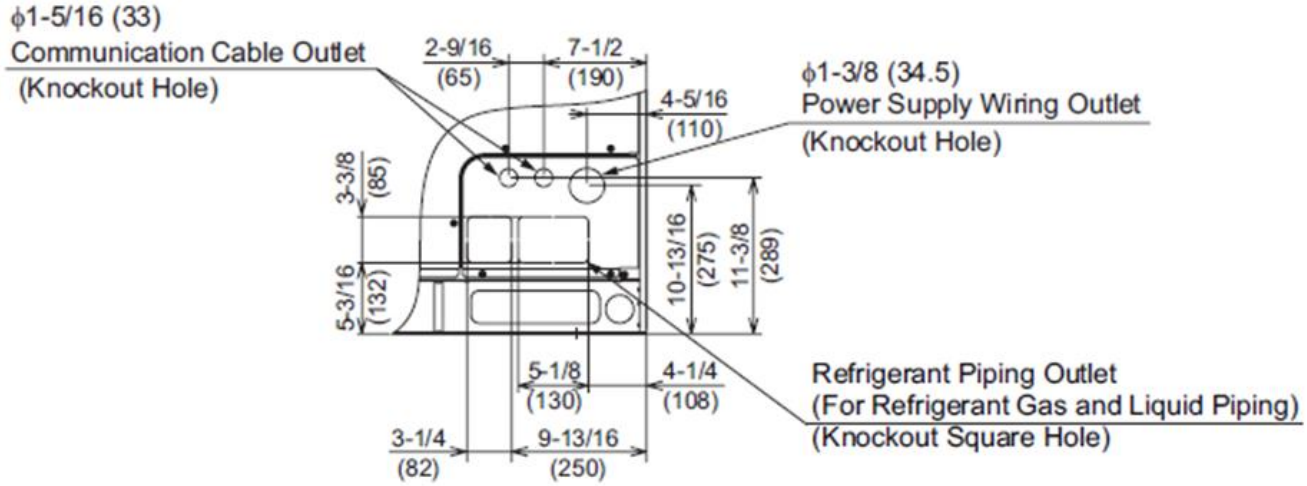
The dimensions marked with ¤ indicates the mounting pitch dimension for the anchor bolts

Piping Connection Dimensions

inch (mm)



< Detail of Piping Cover >



Field Piping (*)	
Gas	Liquid
7/8 (22.2)	3/8 (9.52)

(*): Using the accessory pipe, combine the piping size.