

# Submittal Data Sheet

**(H,Y)VAHP288B31CW**

**(Consists of three (H,Y)VAHP096B31CW modules)**

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

Note:

1. Rating conditions are shown below with Piping length 24ft 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)

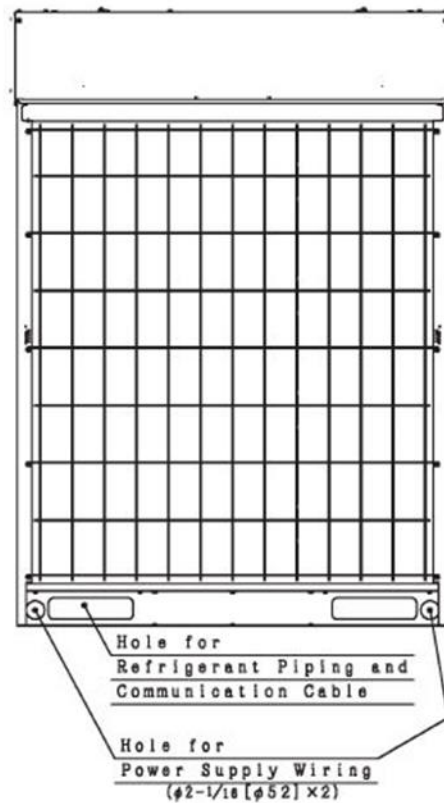
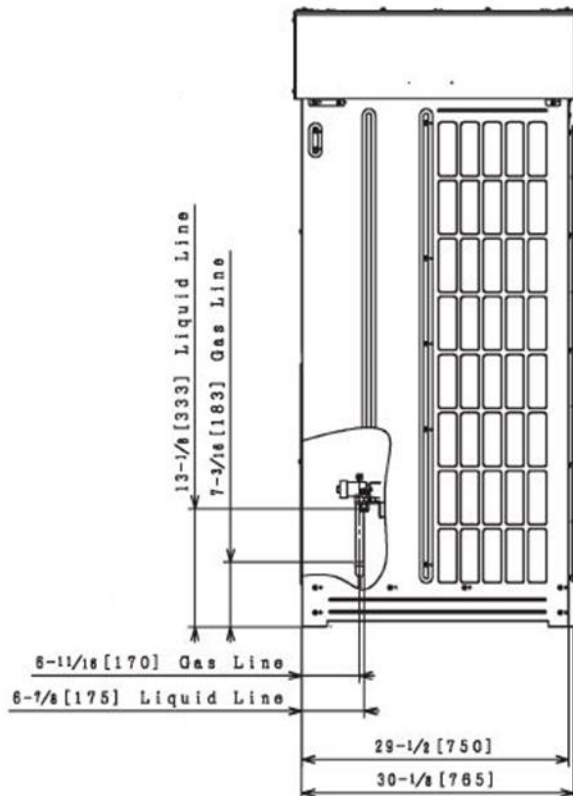
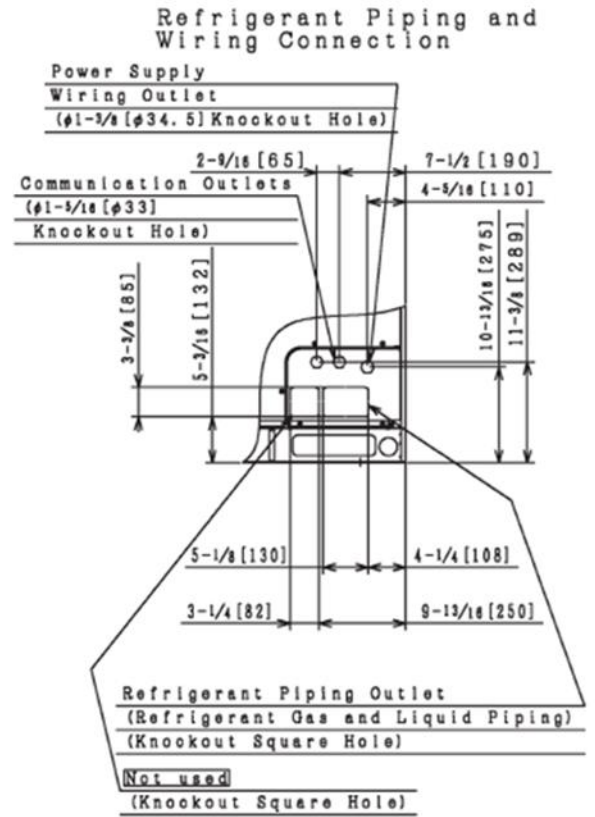
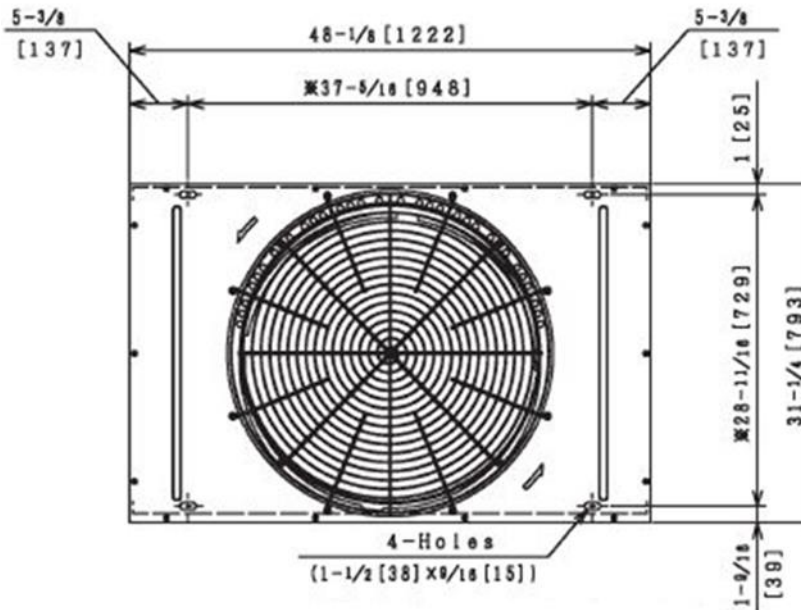
Category		Ton			24RT (8RT+8RT+8RT)		
Model (combination)					(H,Y)VAHP288B31CW		
Model (individual)		Unit A			(H,Y)VAHP096B31CW		
		Unit B			(H,Y)VAHP096B31CW		
		Unit C			(H,Y)VAHP096B31CW		
Power Supply					208/230V/ 3PH 60Hz		
Capacity (Nominal) *1	Cooling	Capacity (Nominal)	Btu/h	(kW)	288,000	(84.4)	
		Power input	kW		28.84		
		Current input	A (208/230V)		81.6 / 77.7		
	Heating	Capacity (Nominal)	Btu/h	(kW)	324,000	(95.0)	
		Power Input	kW		24.25		
		Current Input	A (208/230V)		69.3 / 65.4		
Efficiency Ratings *2	Cooling	Capacity (Rated)	Btu/h	(kW)	274,000	(80.4)	
		EER	Btu/Wh	(W/W)	10.60	(3.11)	
		IEER	Btu/Wh	(Wh/Wh)	17.70	(5.19)	
	Heating	Capacity (Rated)	Btu/h	(kW)	308,000	(90.3)	
		High COP	W/W		3.57		
	Heating	Capacity	Btu/h	(kW)	260,000	(76.3)	
		Low COP	W/W		2.34		
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) x3	
Package Dimensions (H x W x D)			in			-	
Weight	Net		lbs	(kg)	2097	(951)	
	Gross		lbs	(kg)	2269	(1029)	
Connection Ratio	Total Indoor Unit Capacity		%		110 - 60		
	Max. (Recommendation) indoor units/system				50(32)		
Heat Exchanger	Type		-		Multi-Pass Cross-Finned Tube		
	Material		-		Cu-Al (Anti-corrosion)		
Compressor	Type	Inverter	-		EK655DHDx3		
		Fixed Speed	-		EK655DHx3		
	Motor Output (Pole)		kW (Pole)		3.2(4)+3.0(2) 3.2(4)+3.0(2)		
	Start Method		-		inverter		
	Operation Range		%		8~100		
	Refrigeration Oil Type		-		FVC68D		
Crank Case Heater			W×Q'ty		40.8(230V)×18		
Fan	Type		-		Propeller Fan		
	Motor Output (Pole)		kW (Pole)		0.66(8)×3		
	Quantity		Q'ty		3		
	Airflow Rate		cfm	(m³/min)	6884+6884+6884	(195+195+195)	
	External Static Pressure *4		in.WG	(Pa)	0 (0)		
Electrical	Drive		-		Direct-drive		
	Min Circuit Amps		A		-		
	Max Overcurrent Protective Device		A		-		
	Maximum Fuse Size		A		-		
Sound Pressure Level	Cooling (Night-Shift)		dB (A)		65	(61)	
	Heating		dB (A)		66		
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)	17.0+17.0+17.0	(7.7+7.7+7.7)	
Refrigeration Oil	Charge Amount		gal/Unit	(L/Unit)	2.1+2.1+2.1	(7.9+7.9+7.9)	
Defrost Method			-		Reversed Refrigerant cycle Hot Gas Bypass		
Main Refrigerant Piping (Heat Pump)	Gas Line		in	(mm)	1-3/8	(34.93)	
	Liquid Line		in	(mm)	3/4	(19.05)	

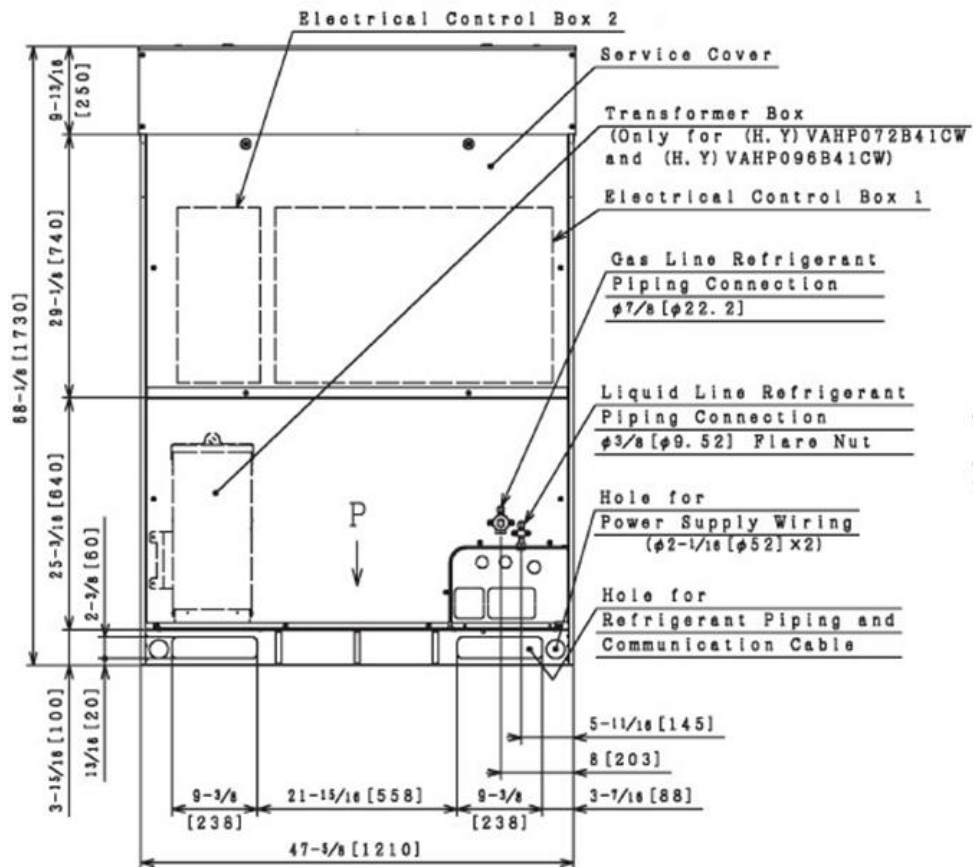
## System Dimensions

Heat Pump Type

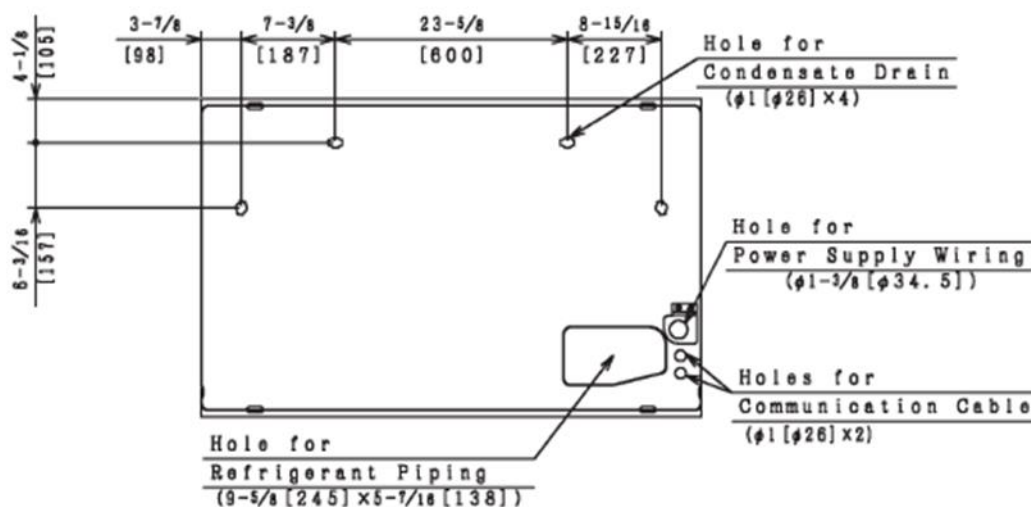
Model: (H,Y)VAHP072B(3,4)1CW and (H,Y)VAHP096B(3,4)1CW

inch(mm)





Viewed from P



Notes:

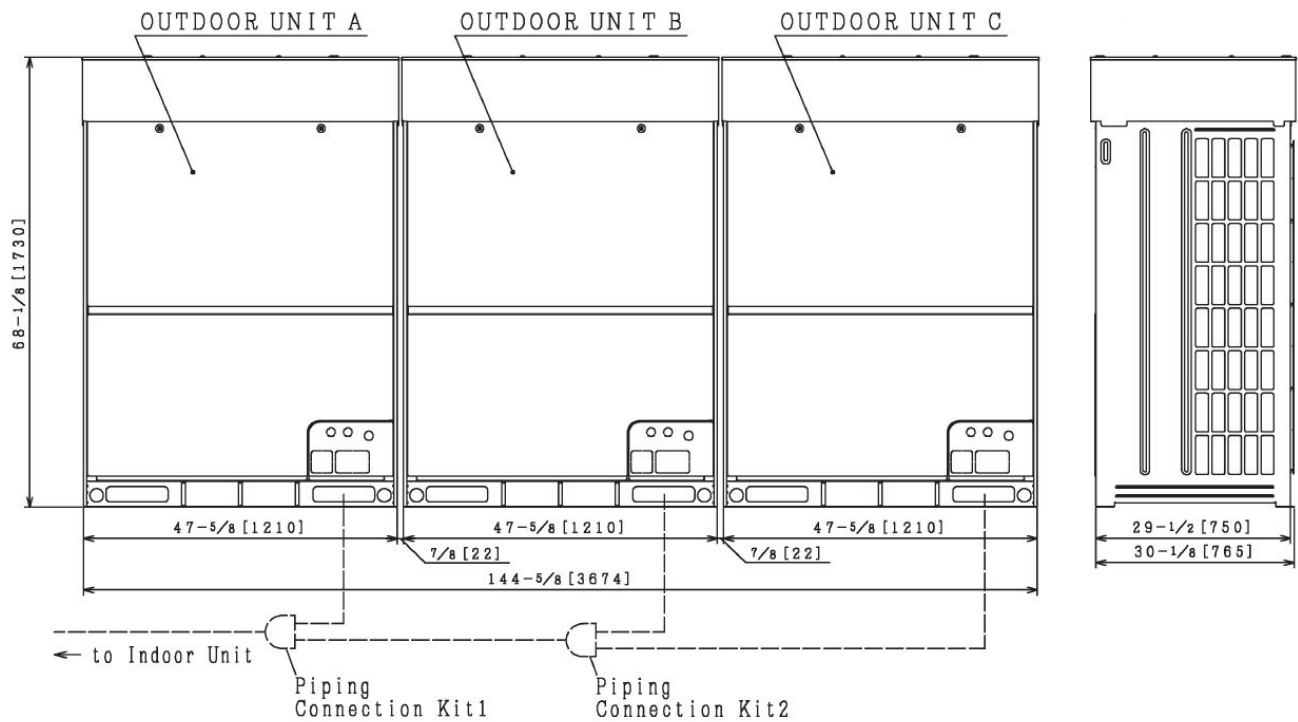
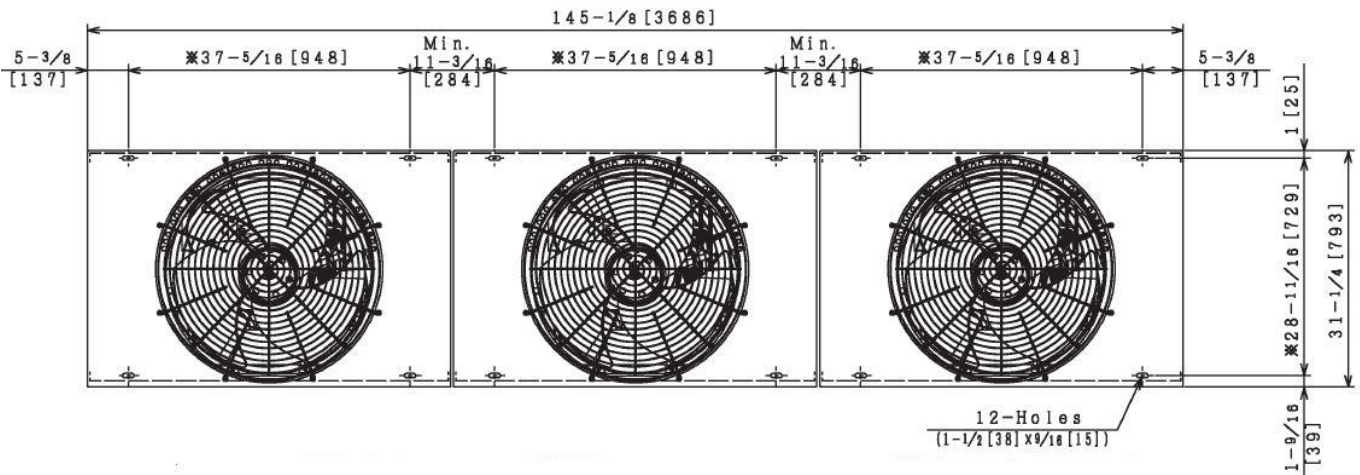
1. Drain water is discharged from the unit during the operation.
  - Choose a place where well drainage is available. Provide a groove for drain.
  - Do not provide an upward slope from the unit to avoid reverse flow of the drain.
  - Provide a second drain pan under the outdoor unit to collect drain 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  $\varnothing$  indicates the mounting pitch dimension for the anchor bolts

## System Dimensions

Heat Pump Type  
Model: (H,Y)VAHP288(3,4)1CW

inch (mm)



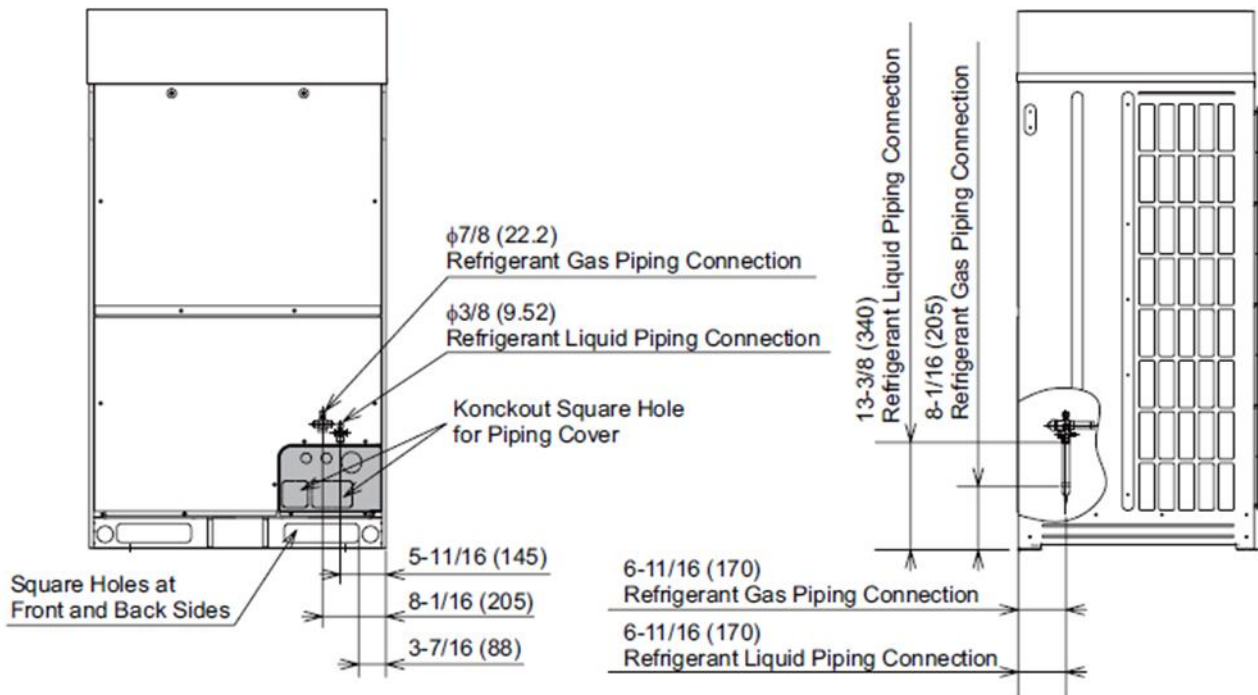
Outdoor Unit Model	Combination of Base Unit Models		
	OUTDOOR UNIT A	OUTDOOR UNIT B	OUTDOOR UNIT C
(H,Y)VAHP288B31CW	(H,Y)VAHP096B31CW	(H,Y)VAHP096B31CW	(H,Y)VAHP096B31CW
(H,Y)VAHP288B41CW	(H,Y)VAHP096B41CW	(H,Y)VAHP096B41CW	(H,Y)VAHP096B41CW

### Notes:

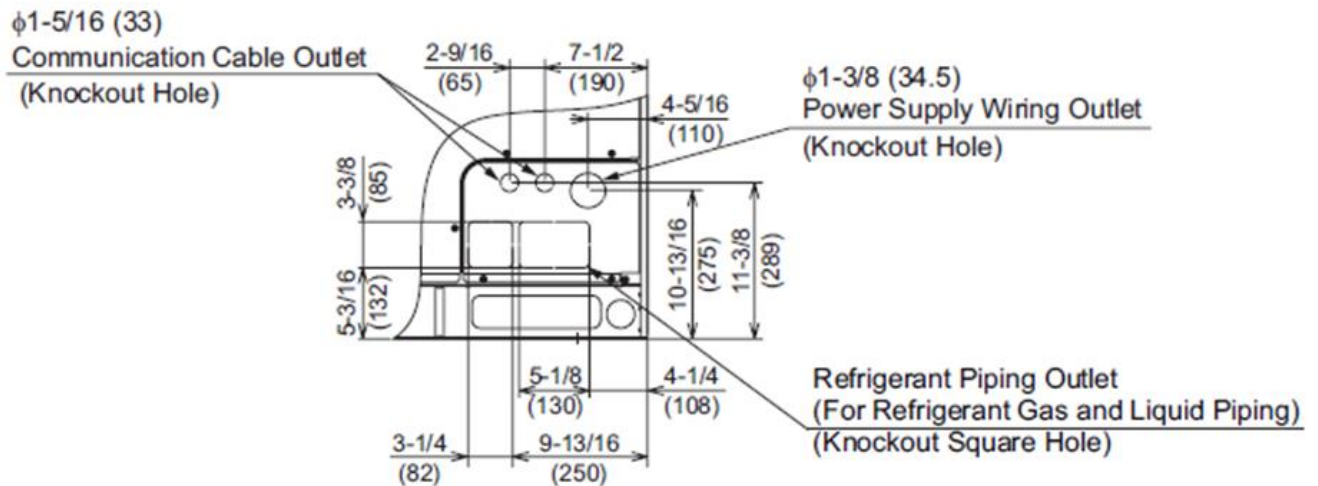
1. Make sure that the outdoor unit A is placed on the indoor unit side. Arrange the outdoor units according to the capacity.  $A \geq B \geq C$ .
2. Check "Installation Manual" for the piping connection kit and piping connection size.
3. This drawing shows that there is a 7/8 in (22mm) clearance between the base units. In case of the outdoor unit with "Snow Protection Hood (optional part)" or "Air Outlet Duct (field-supplied)", the clearance between the base units of more than 1 15/16 in (50 mm) is required.
4. The dimensions marked with  $\varnothing$  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

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.

