SUBMITTAL DATA SHEET

6 RT (H,Y)VAHR072B41S (Consists of one (H,Y)VAHR072B41S module.)

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

FEATURES:

- Three-pipe system for ductless and ducted applications
- Inverter-driven scroll compressor
- Air source simultaneous cooling and heating with Change-Over Box
- Long refrigerant piping lengths – up to 3,280 feet total pipe run

ACCESSORIES:

- Change-Over Box (required for a heat recovery system): for details see Change-Over Box Submittals
- 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)VAHR072B41S	
Model(individual)			Unit A		-	
			Unit B		-	
			Unit C		-	
			Unit D		-	
Power Supply					460V/ 3PH 60Hz	
Capacity (Nominal) [1]	Cooling	Capacity (Nominal)	Btu/h	(kW)	72,000	(21.1)
		Power input	kW		6.08	
		Current input	A		8.5	
	Heating	Capacity (Nominal)	Btu/h	(kW)	81,000	(23.7)
		Power input	kW		5.93	
		Current input	A		8.3	
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 Hight	Capacity (Rated)	Btu/h	(kW)	76,000	(22.3)
		COP	W/W		4.14	
	Heating Low	Capacity	Btu/h	(kW)	55,000	(16.1)
		COP	W/W		2.48	
	Heat Recovery	SCHE	Btu/Wh		22.60	
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(8)	
	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 Over-heat protection	
	Compressor		-		Over-heat protection	
	PCB		-		Over-current protection	
Refrigerant	Type		-		R410A	
	Charage amount		lbs	(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 Recovery)	Low Pressure Gas Line		in	(mm)	1-1/8	(28.58)
	High/Low Pressure Gas Line		in	(mm)	7/8	(22.2)
	Liquid Line		in	(mm)	1/2	(12.7)

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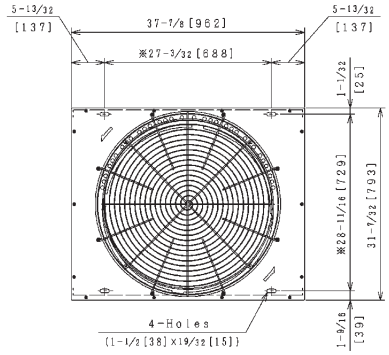
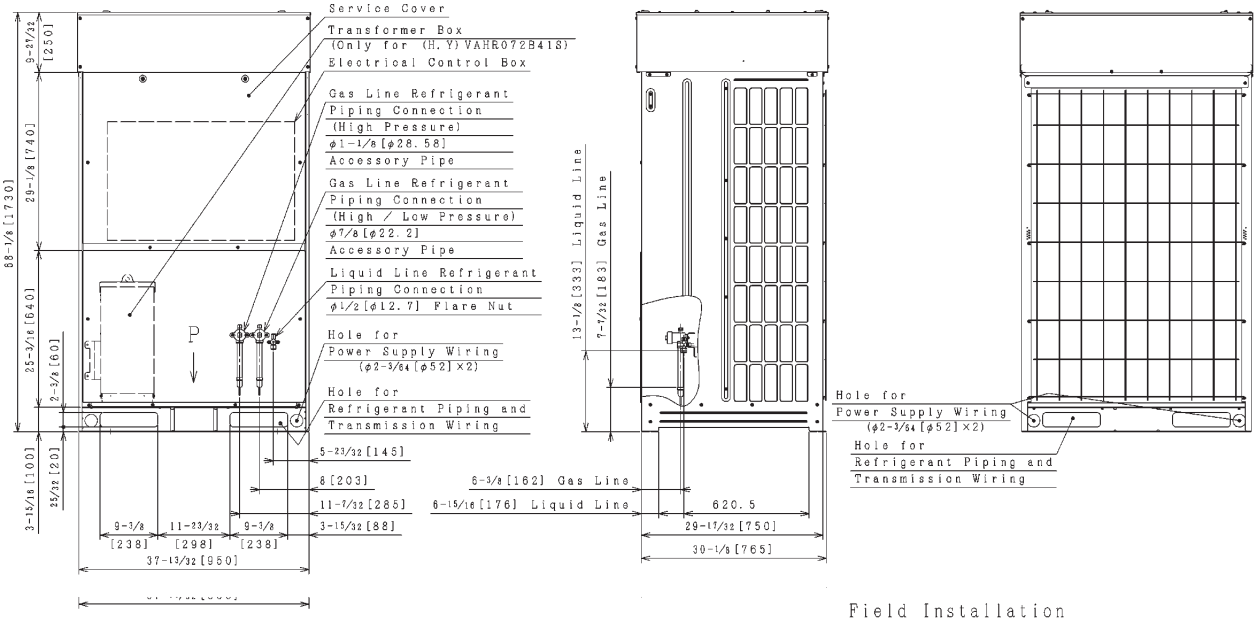
System Dimensions

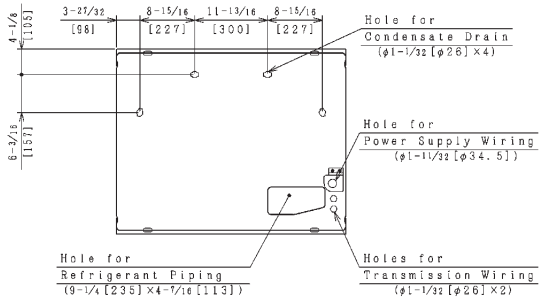
Heat Recovery Type Model:
(H,Y)VAHR072B41S

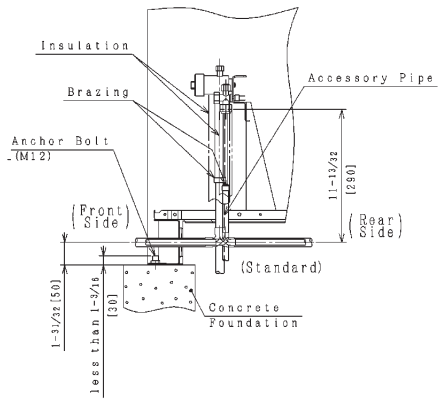




Field Installation
(Example)

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.

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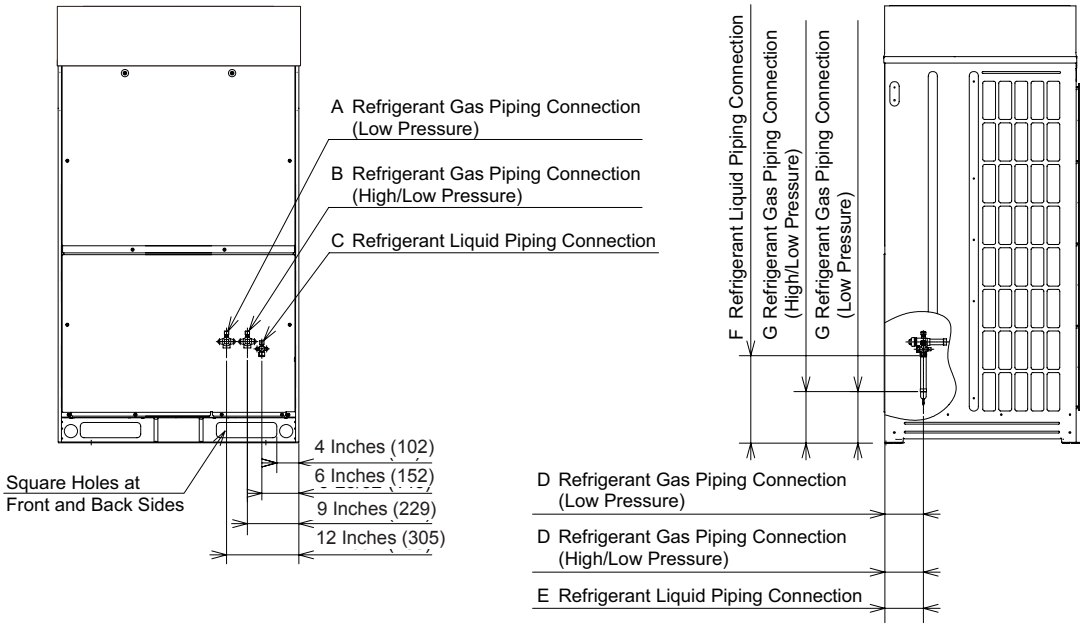
Piping Connection Dimensions

Unit: inch (mm)



Model Type	Field Piping (*)					A	B	C	D	E	F	G
	Heat Recovery System		Heat Pump System									
	Low Pressure Gas	High/ Low Pressure Gas	Low Pressure Gas	High/ Low Pressure Gas	Liquid							
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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