

SUBMITTAL DATA SHEET

30 RT (H,Y)VAHP360B41S (Consists of one (H,Y)VAHP120B41S, one (H,Y)VAHP096B41S, and two (H,Y)VAHP072B41S modules.)

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).

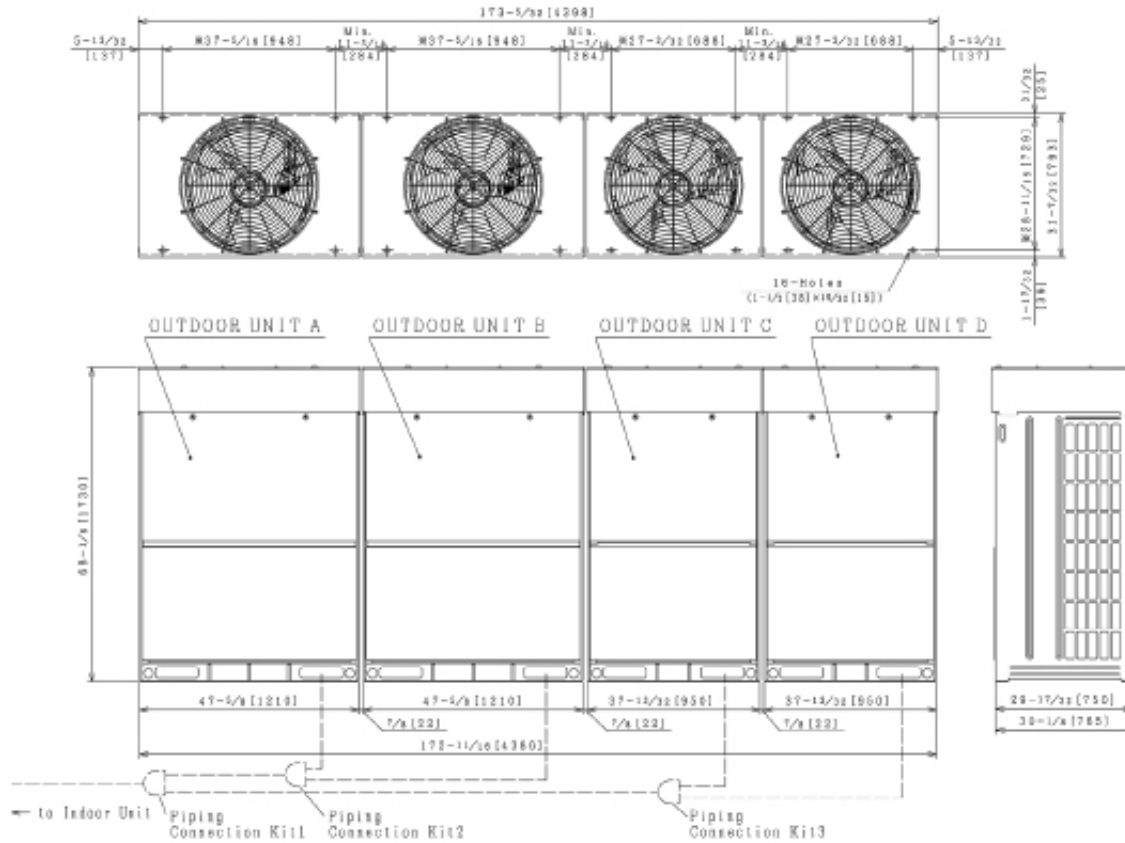
Category		Ton		30RT (10RT+10RT+10RT)		
Model (combination)		(H,Y)VAHP360B41LM				
Model (individual)		Unit A		(H,Y)VAHP120B41S		
		Unit B		(H,Y)VAHP120B41S		
		Unit C		(H,Y)VAHP120B41S		
		Unit D		-		
Power Supply		460V/ 3PH 60Hz				
Capacity (Nominal) ¹	Cooling	Capacity (Nominal)	Btu/h	(kW)	360,000 (105.5)	
		Power input	kW			31.71
		Current input	A			47.4
	Heating	Capacity (Nominal)	Btu/h	(kW)	405,000 (118.7)	
		Power input	kW			29.19
		Current input	A			43.2
Efficiency Ratings ²	Cooling	Capacity (Rated)	Btu/h	(kW)	342,000 (100.3)	
		EER	Btu/Wh	(W/W)	9.70 (2.85)	
		IEER	Btu/Wh	(Wh/Wh)	17.50 (5.13)	
	Heating	Capacity (Rated)	Btu/h	(kW)	366,000 (107.4)	
		COP	W/W			3.35
		High COP	Btu/h	(kW)	268,000 (78.6)	
Low COP	W/W			2.01		
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) x 3			
Package Dimensions (H x W x D)	-		in (74-1/4 x 40-5/8 x 34-1/32) x 3			
Weight	Net	lbs	(kg)	2394 (1086)		
	Gross	lbs	(kg)	2568 (1164)		
Connection Ratio	Total Indoor Unit Capacity		%		120 - 60	
	Max. (Recommendation) indoor units/system		%		64 (38)	
Heat Exchanger	Type	-		Multi-Pass Cross-Finned Tube		
	Material	-		Cu-Al (Anti-corrosion)		
Compressor	Type	Inverter	-		DA65PHD×3	
		Fixed Speed	-		DA65PHC×3	
	Motor Output (Pole)	kW (Pole)		6.0(6)+4.4(2) 6.0(6)+4.4(2) 6.0(6)+4.4(2)		
	Start Method	-		inverter		
	Operation Range	%		5~100		
	Refrigeration Oil Type	-		FVC68D		
Crank Case Heater	W×Q'ty		-		40.8(230V)×12	
	Type	-		Propeller Fan		
Fan	Motor Output (Pole)	kW (Pole)		0.91(8)×3		
	Quantity	Q'ty		3		
	Air Flow Rate	cfm	(m ³ /min)	7413+7413 (210+210) +7413 +210		
	External static pressure ⁵	in.WG	(Pa)	0 (0)		
	Drive	-		Direct-drive		
Electrical	Min Circuit Amps	A		-		
	Recommended Fuse/Breaker Size	A		-		
	Maximum Fuse Size	A		-		
Sound Pressure Level	Cooling (Night-Shift)	dB(A)		69 (62)		
	Heating	dB(A)		69		
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)	20.9+20.9 (9.5+9.5) +20.9 +9.5		
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	
Main Refrigerant Piping (Heat Pump)	High/Low Pressure Gas Line	in	(mm)	1-5/8 (41.28)		
	Liquid Line	in	(mm)	3/4 (19.05)		

version 201611

System Dimensions

Heat Pump Type

Model: (H,Y)VAHP360B41S



Outdoor Unit Model	Combination of Base Unit Models			
	OUTDOOR UNIT A	OUTDOOR UNIT B	OUTDOOR UNIT C	OUTDOOR UNIT D
(H, Y) VAHP336B31S	(H, Y) VAHP096B31S	(H, Y) VAHP096B31S	(H, Y) VAHP072B31S	(H, Y) VAHP072B31S
(H, Y) VAHP336B41S	(H, Y) VAHP096B41S	(H, Y) VAHP096B41S	(H, Y) VAHP072B41S	(H, Y) VAHP072B41S
(H, Y) VAHP360B31S	(H, Y) VAHP120B31S	(H, Y) VAHP096B31S	(H, Y) VAHP072B31S	(H, Y) VAHP072B31S
(H, Y) VAHP360B41S	(H, Y) VAHP120B41S	(H, Y) VAHP096B41S	(H, Y) VAHP072B41S	(H, Y) VAHP072B41S

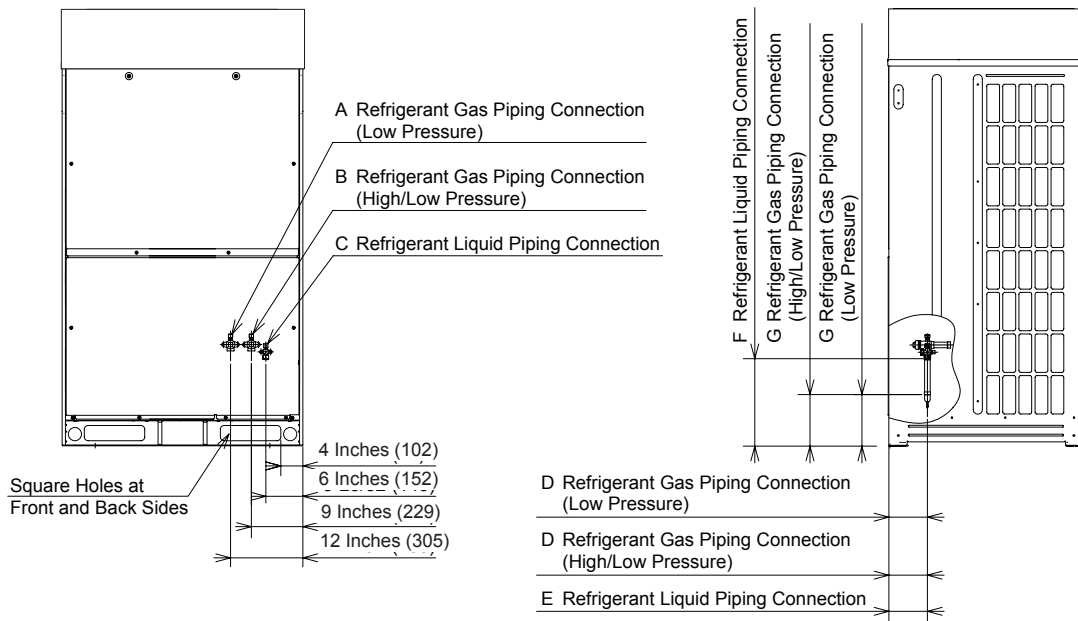
NOTES:

1. Make sure that the outdoor unit A is placed on the indoor unit side. Arrange the outdoor units according to the capacity, A&B&C&D.
2. Check "Installation Manual" for the piping connection kit and piping connection size.
3. This drawing shows that there is 7/8 inch (22mm) clearance between the base units. In case of the outdoor unit with "Snow Protection Hood (Optional Parts)" or "Air Outlet Duct (Field-Supplied)", the clearance between the base units of more than 1-31/32 inch (50mm) is required.
4. The dimensions marked with ⌘ 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.

version 201611

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

version 201611

