

SUBMITTAL DATA SHEET

22 RT (Y,H)VAHP264B41S (Consists of one (Y,H)VAHP120B41S and two (Y,H)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:

- 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
- Rating Conditions are based on the AHRI 1230 test standard.
- For more details, please refer to Engineering manual "Operation range" section.
- For more details, please refer to Engineering manual "Operation range" section.
- External static pressure can be changed via DSW setting 0.24 in.W.G. (60Pa).

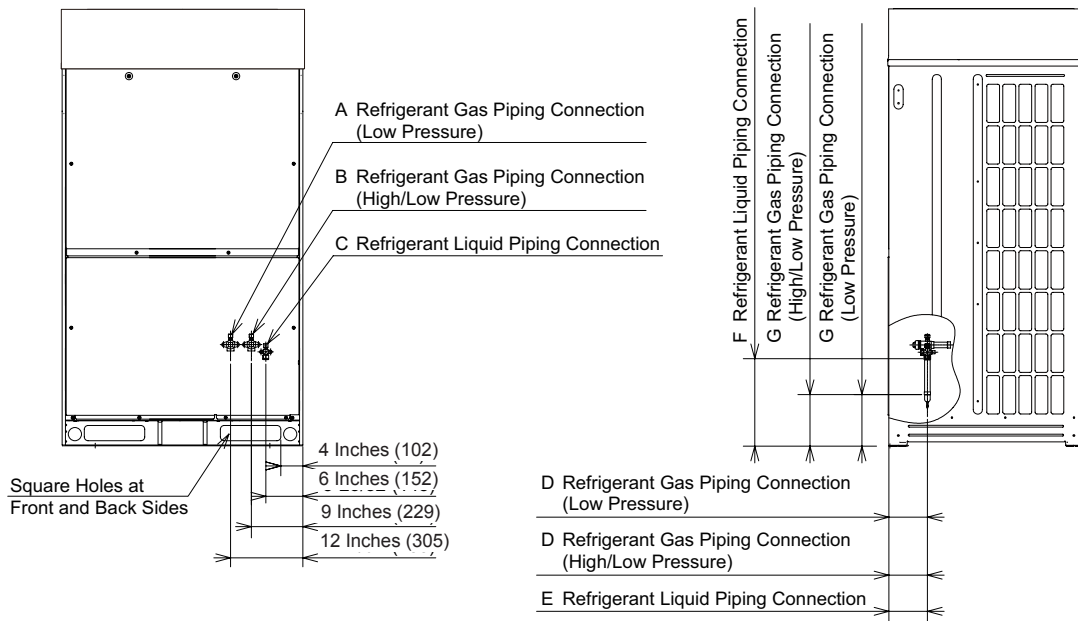
| | | | | | |
|-------------------------------------|-------------------------------------------|--------------------|-----------------------|------------------------------------------|----------------------------|
| Category | | Ton | | 22RT (10RT+6RT+6RT) | |
| Model (combination) | | | | (H,Y)VAHP264B41S | |
| Model (individual) | | Unit A | | (H,Y)VAHP120B41S | |
| | | Unit B | | (H,Y)VAHP072B41S | |
| | | Unit C | | (H,Y)VAHP072B41S | |
| | | Unit D | | - | |
| Power Supply | | | | 460V/ 3PH 60Hz | |
| Capacity (Nominal) ¹ | Cooling | Capacity (Nominal) | Btu/h | (kW) | 264,000 (77.4) |
| | | Power input | kW | | 22.73 |
| | | Current input | A | | 32.8 |
| | Heating | Capacity (Nominal) | Btu/h | (kW) | 297,000 (87.0) |
| | | Power input | kW | | 21.59 |
| | | Current input | A | | 31.0 |
| Efficiency Ratings ² | Cooling | Capacity (Rated) | Btu/h | (kW) | 252,000 (73.9) |
| | | EER | Btu/Wh | (W/W) | 10.00 (2.93) |
| | | IEER | Btu/Wh | (Wh/Wh) | 18.20 (5.34) |
| | Heating High | Capacity (Rated) | Btu/h | (kW) | 280,000 (82.1) |
| | | COP | W/W | | 3.50 |
| | Heating Low | Capacity | Btu/h | (kW) | 200,000 (58.7) |
| COP | | W/W | | 2.30 | |
| 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) | 2011 | (912) |
| | Gross | lbs | (kg) | 2161 | (980) |
| Connection Ratio | Total Indoor Unit Capacity | | | % | |
| | Max. (Recommendation) indoor units/system | | | 140 - 65 61 (38) | |
| Heat Exchanger | Type | | | Multi-Pass Cross-Finned Tube | |
| | Material | | | Cu-Al (Anti-corrosion) | |
| Compressor | Type | Inverter | | | DA65PHD×3 |
| | | Fixed Speed | | | DA65PHC×1 |
| | Motor Output (Pole) | | | kW (Pole) | |
| | | | | 6.0(6)+4.4(2) 7.26(6) 7.26(6) | |
| | Start Method | | | inverter | |
| | Operation Range | | | % | |
| Refrigeration Oil Type | | | FVC68D | | |
| Crank Case Heater | | | W×Q'ty | | 40.8(230V)×8 |
| Fan | Type | | | Propeller Fan | |
| | Motor Output (Pole) | | | kW (Pole) | |
| | Quantity | | | Q'ty | |
| | Air Flow Rate | cfm | (m ³ /min) | 7413+6178 +6178 | (210+175 +175) |
| | 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) | |
| | Heating | | | dB(A) | |
| Protection devices | Cycle | | | High pressure switch at 601psi (4.15MPa) | |
| | Inverter | | | Over-current protection | |
| | Compressor | | | Over-heat protection | |
| | PCB | | | Over-current protection | |
| | Type | | | R410A | |
| Refrigerant | Charge amount | lbs | (kg) | 20.9+16.1 +16.1 | (9.5+7.3 +7.3) |
| | Refrigeration Oil | Charge amount | gal/Unit | (l/Unit) | 2.1+1.6+1.6 +6.0 |
| 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 201702

System Dimensions

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 201702

