



## Submittal Data Sheet

R-32 3.5 ton Ducted Concealed Heat Pump SkyAir System

FBA42AAVJU-RZA42AAVJU

## BENEFITS

- Medium external static pressure (ESP) capabilities offer up to 0.8" W.G.
- Connect to Daikin Zoning Kit (Optional)
- Dependable heat pump operation from -4°F in heating to 122°F in cooling
- DC Fan Motor
- Minimal Discharge Air Temperature - mitigate risk of condensation
- Auto Adjusting Airflow at commissioning based on external static pressure
- Ease of Maintenance with complete service access from below
- Built in Refrigerant Detection System with Dispersion Mode

## INDOOR UNIT



## OUTDOOR UNIT





## Submittal Data Sheet

R-32 3.5 ton Ducted Concealed Heat Pump SkyAir System

FBA42AAVJU-RZA42AAVJU

### SYSTEM PERFORMANCE

Indoor Unit Model No.	FBA42AAVJU	Indoor Unit Name:	R-32 3.5 TON HSP DUCTED CONCEALED
Outdoor Unit Model No.	RZA42AAVJU	Outdoor Unit Name:	R-32 SkyAir 3.5 T Heat Pump Single Zone
Rated Cooling Capacity (Btu/hr):	40,500	Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Sensible Capacity (Btu/hr):	30,500	Rated Piping Length(ft):	25
		Rated Height Difference (ft):	0.00
Cooling Input Power (kW):	3.860		
SEER2 (Non-Ducted/Ducted):	/ 15.60	HSPF2 (Non-Ducted/Ducted):	/ 9.5
EER2 (Non-Ducted/Ducted):	/ 10.50		
Rated Heating Capacity (Btu/hr):	47,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43

### SYSTEM DETAILS

Refrigerant Type:	R-32	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	7.5	Heating Operation Range (°F WB):	-4 - 60
Additional Charge (oz/ft):	0.04	Max. Pipe Length (Vertical) (ft):	98
Pre-charge Piping (Length) (ft):	25	Cooling Range w/Baffle (°F DB):	23 - 122
Max. Pipe Length (Total) (ft):	230		

# Submittal Data Sheet

R-32 3.5 ton Ducted Concealed Heat Pump SkyAir System

FBA42AAVJU-RZA42AAVJU

## INDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	1377/1,130/918
Power Supply Connections:	L1, L2, G		
Min. Circuit Amps MCA (A):	3.6	Gas Pipe Connection (inch):	5/8
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	3/8
Dimensions (HxWxD) (in):	9-11/16 x 55-1/8 x 31-1/2	Condensate Connection (inch):	1-1/4
Ext. Static Pressure (Min/Max) (inWg):	0.2/0.8	Sound Pressure (H/M/L) (dBA):	48/44/39
Net Weight (lb):	106		

## DIMENSIONAL DRAWING - INDOOR UNIT

**Notes:**

- Location of name plate : control box cover
- Make sure to mount an air filter inside air passage of the suction side. (Select dust collection efficiency (gravimetric method) 50% or more.)
- If the temperature and humidity in the ceiling is likely to exceed 96° F(30°C) and RH80%, reinforce thermal insulation by applying additional insulation materials such as glass wool or polyethylene that have thickness of 3/8(10) or more.
- Do not put anything that should not get wet under the indoor unit. Dew may drop when humidity reaches over 80%, drain gets stuck or air filter is clogged.
- Space for service works
  - Provide service space for service work such as check and maintenance of the control box and drain pump by one of the following ways.
    - Inspection hatch 1 and 2 (17-3/4 x 17-3/4) (450x450) (Fig. A-1) and a space of 11-13/16(300mm) or more under the unit. (Fig. A)
      - Note: Inspection hatch 2 is not needed when there is a space for service work under the unit.
    - Inspection hatch 1 (17-3/4 x 17-3/4) (450x450) on the control box side, and inspection hatch 2 under the unit. (View B-1)
    - Inspection hatch 3 under the unit and control box. (View B-2)
      - Provide enough space for maintenance and mount the drain pan and control box.
      - Check the drawing of optional accessories when mounting optional accessories such as filter chamber.

ITEM	PART NAME	REMARK
13	Drain socket	
12	Drain hose (Accessory)	
11	Socket (for maintenance)	0.3 φ1" (φ25)
10	Hanger bracket	For MS-MTD or equivalent
9	Air suction flange	
8	Air discharge flange	
7	Power supply wiring connection	
6	Transmission and remote controller wiring connection	
5	Control box (inside)	
4	Ground terminal (Control box)	MM
3	Drain pipe connection	0.3 φ1-1/4" (φ32)
2	Gas pipe connection	0.5" (φ15.9) Flare connection
1	Liquid pipe connection	0.3" (φ7.9) Flare connection

## Submittal Data Sheet

R-32 3.5 ton Ducted Concealed Heat Pump SkyAir System  
FBA42AAVJU-RZA42AAVJU

### OUTDOOR UNIT DETAILS

Power Supply (V/Hz/Ph):	208-230 / 60 / 1	Compressor Stage:	Inverter
Power Supply Connections:	L1, L2, G		
Min. Circuit Amps MCA (A):	34.6	Airflow Rate (H) (CFM):	3000
Max Overcurrent Protection (MOP) (A):	35	Gas Pipe Connection (inch):	5/8
		Liquid Pipe Connection (inch):	3/8
		Sound Pressure (H) (dBA):	56
Dimensions (HxWxD) (in):	34-1/4 x 43-5/16 x 18-1/8		
Net Weight (lb):	234		

### DIMENSIONAL DRAWING - OUTDOOR UNIT

