



Submittal Data Sheet

1-Ton R-32 MSP Concealed Ducted Unit

FXSA12AAVJU

FEATURES

- Design for installation flexibility, with a factory rear-return configuration and field convertible to bottom return configuration
- Slender design with only 9-11/16 height and requiring 11-1/4 clearance in ceiling space allowing for installation in cramped applications
- Ease of installation with auto adjusting airflow at commissioning based on external static pressure.
- Powerful static pressure capability, with up to 0.6 in.w.g. (150Pa) external static pressure.
- New minimal discharge air temperature setting to help mitigate risk of condensation on air vents
- Efficient operation and year-round energy savings through Smart Variable Refrigerant Temperature (VRT) technology
- Quiet operation for sound sensitive applications with sound levels as low as 28 dB(A).
- High degree of control for auxiliary heating devices, with independently configurable on/off temperature values.
- Integral condensate pump with up to 25-5/16" (643mm) of lift from the drain outlet
- Maintenance-friendly inspection port to easily check the conditions of the drain pan



BENEFITS

- Factory-installed integrated refrigerant leak sensor
- Dispersion Mode: Higher airflow rate for leak mitigation through circulation
- Terminal for connection, via optional relay PCB, to external alarms and monitoring systems



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PERFORMANCE

Indoor Unit Model No.	FXSA12AAVJU	Indoor Unit Name:	1-Ton R-32 MSP Concealed Ducted Unit
Type:		Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 / 75
Rated Cooling Capacity (Btu/hr):	12,000	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / 60 Ambient (°F DB/WB): 47 / 43
Sensible Capacity (Btu/hr):		Rated Piping Length(ft):	
Cooling Input Power (kW):		Rated Height Separation (ft):	
Rated Heating Capacity (Btu/hr):	13,500		

INDOOR UNIT DETAILS

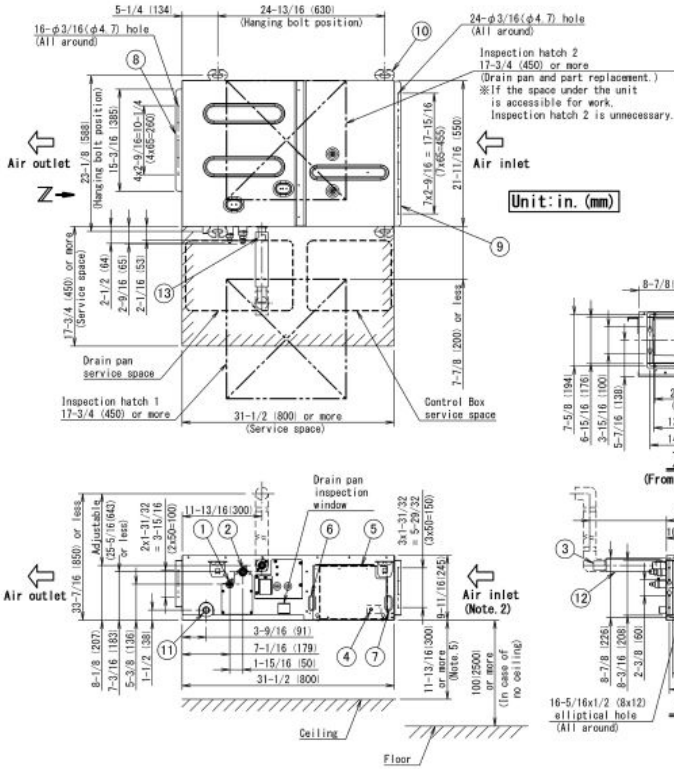
Power Supply (V/Hz/Ph):	208/230 / 60 / 1	Airflow Rate (H/M/L) (CFM):	335/283/247
Power Supply Connections:	L1, L2, G	Moisture Removal (Gal/hr):	
Min. Circuit Amps MCA (A):	0.8	Gas Pipe Connection (inch):	1/2
Max Overcurrent Protection (MOP) (A):	15	Liquid Pipe Connection (inch):	1/4
Dimensions (HxWxD) (in):	9-11/16 x 21-11/16 x 31-1/2	Condensate Connection (inch):	1
Ext. Static Pressure (Rated/Max) (inWg):	0.12 / 0.6	Sound Pressure (H/M/L) (dBA):	34/32/30
Net Weight (lb):	55	Sound Power Level (dBA):	62

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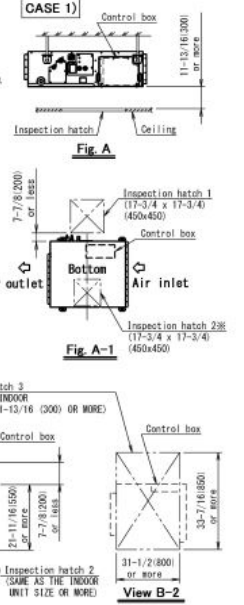
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DIMENSIONAL DRAWING



- Notes) 1. Location of name plate : control box cover.
2. Make sure to mount an air filter inside air passage of the suction side.
(Select dust collection efficiency (gravimetric method) 50% or more.)
3. If the temperature and humidity in the ceiling is likely to exceed 86°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.
4. 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.
5. 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.
1) Inspection hatch 1 and 2 (17-3/4 x 13-3/4) (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.
2) 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)
3) 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.



13	Drain socket	
12	Drain hose (Accessory)	
11	Socket (for maintenance)	0.0 φ1" (φ26)
10	Hanger bracket	For M8-M10 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)	M4
3	Drain pipe connection	0.0 φ1-1/4" (φ32)
2	Gas pipe connection	φ1/2" (φ12.7) Flare connection
1	Liquid pipe connection	φ1/4" (φ6.4) Flare connection
ITEM	PART NAME	REMARK