



EDUS39-900B-F11

202103

Engineering Data

Ceiling Mounted Duct Unit FXMQ-MVJU

60 Hz

R-410A



VRV

The VRV logo, consisting of the letters "VRV" in a bold, italicized font. The letters are composed of multiple parallel diagonal lines, creating a striped or hatched effect.

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1. Features and Benefits

Concealed, Powerful, Comfortable

The HSP high-capacity concealed ducted unit is ideal for larger open space floor plans usually found in offices, retail, hotels, or education facilities. It performs well across multiple spaces that can benefit from the same mode of operation, limiting equipment and installation cost.

- Design flexibility with a capacity range up to 96 MBH
- Improved ductwork and filtration flexibility with ESP capability of up to 1.1" W.G
- Low profile design of less than 19" high to reduce required installation space
- Ideal for Hotels, Schools, Retail



FXMQ72-96MVJU

2. Specifications

Ceiling mounted duct unit

Model		FXMQ72MVJU		FXMQ96MVJU	
Power supply		1 phase, 60 Hz, 208/230 V		1 phase, 60 Hz, 208/230 V	
★1, ★3 Cooling capacity	Btu/h	72,000		96,000	
★2, ★3 Heating capacity	Btu/h	81,000		108,000	
Casing/Color		Galvanized steel plate		Galvanized steel plate	
Dimensions: (H × W × D)	in.	18-1/8 × 54-3/8 × 43-5/16		18-1/8 × 54-3/8 × 43-5/16	
Coil (cross fin coil)	Rows × Stages × FPI	3 × 26 × 13		3 × 26 × 13	
	Face area	ft ²	7.32		7.32
Fan	Model	D13/4G2DA1 × 2		D13/4G2DA1 × 2	
	Type	Sirocco fan		Sirocco fan	
	Motor output	W	380 × 2		380 × 2
	Airflow rate (H/L)	cfm	2,047/1,764		2,541/2,188
	External static pressure (208 V)	in. H ₂ O	0.95-0.38 ★4		0.95-0.44 ★4
	Drive	Direct drive		Direct drive	
Temperature control		Microprocessor thermostat for cooling and heating		Microprocessor thermostat for cooling and heating	
Air filter		— ★5		— ★5	
★6 Sound pressure level (reference data) (H/L)	dBA	49.0/46.0		49.0/46.0	
Weight	lbs	302		302	
Piping connections	Liquid pipes	in.	φ3/8 (flare connection)	φ3/8 (flare connection)	
	Gas pipes	in.	φ3/4 (brazing connection)	φ7/8 (brazing connection)	
	Drain pipe	in.	PS1B	PS1B	
Safety devices		Fuse, Thermal protector for fan motor		Fuse, Thermal protector for fan motor	
Refrigerant control		Electronic expansion valve		Electronic expansion valve	
Connectable outdoor unit		R410A VRV series		R410A VRV series	
Standard accessories		Operation manual, Installation manual, Sealing pads, Connection pipes, Screws, Clamps		Operation manual, Installation manual, Sealing pads, Connection pipes, Screws, Clamps	

Note:

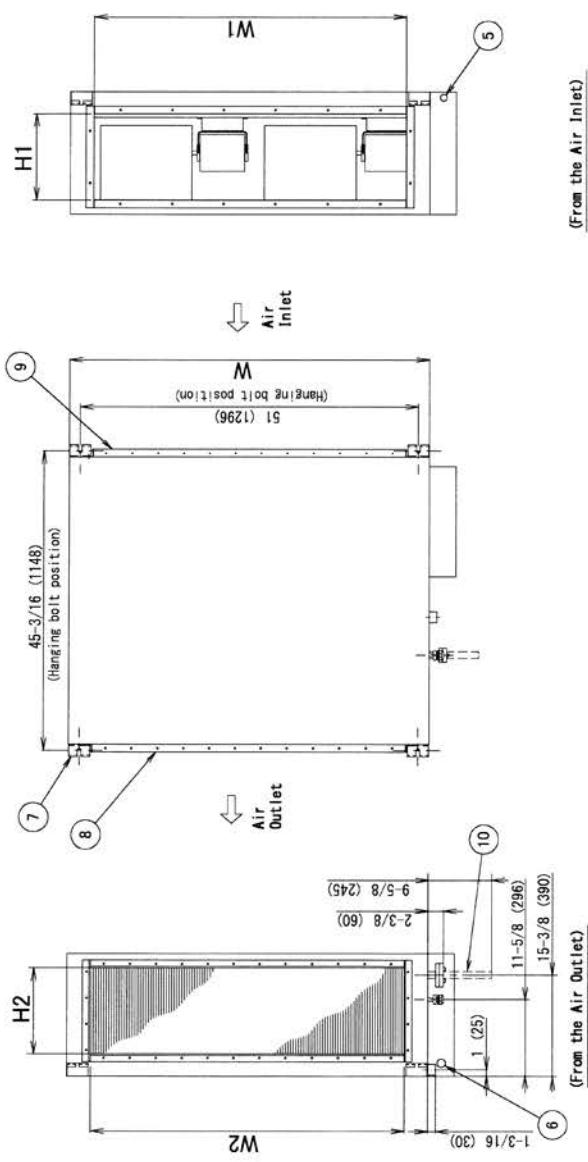
- ★1. Nominal cooling capacities are based on the following conditions:
Return air temperature: 80°FDB, 67°FWB
Outdoor temperature: 95°FDB
Equivalent refrigerant piping length: 25 ft (horizontal)
- ★2. Nominal heating capacities are based on the following conditions:
Return air temperature: 70°FDB.
Outdoor temperature: 47°FDB, 43°FWB
Equivalent refrigerant piping length: 25 ft (horizontal)
- ★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★4. External static pressure is changeable to change over the connectors inside electrical box, this pressure means "High static pressure-Standard static pressure".
- ★5. Air filter is not standard accessory, but please mount it in the duct system of the suction side.
Select its dust collection efficiency (gravity method) 50% or more.
- ★6. Anechoic chamber conversion value, measured under JIS conditions. During actual operation, these values may be higher as a result of installation conditions.

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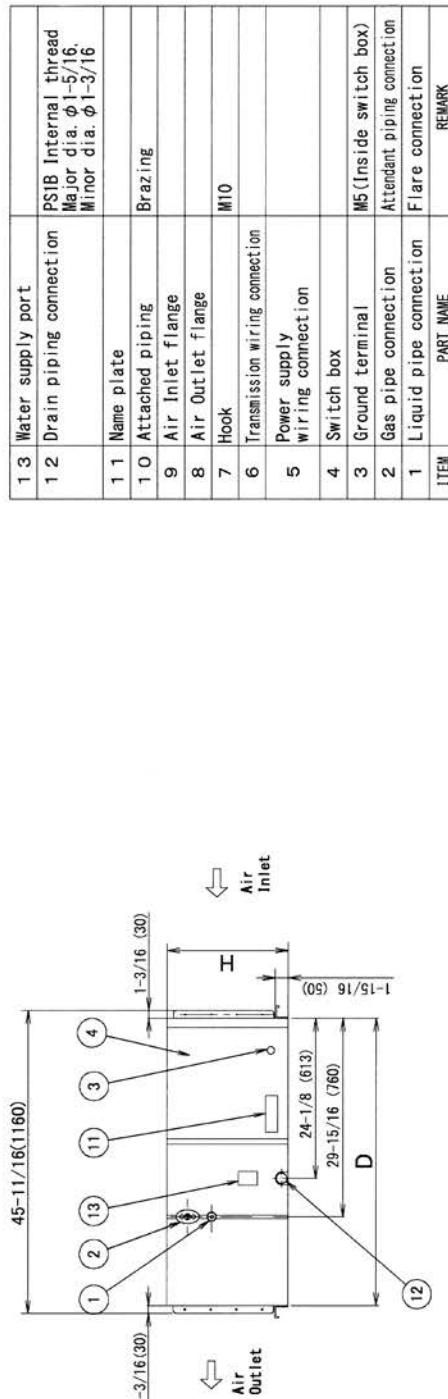
3. Simplified Dimensions

FXMQ72-96MVJU

Unit: in. (mm)



Indoor unit	Gas side	Liquid side
FXMQ72MVJU	$\phi 3/4$ attached piping	$\phi 3/8$
FXMQ96MVJU	$\phi 7/8$ attached piping	$\phi 3/8$

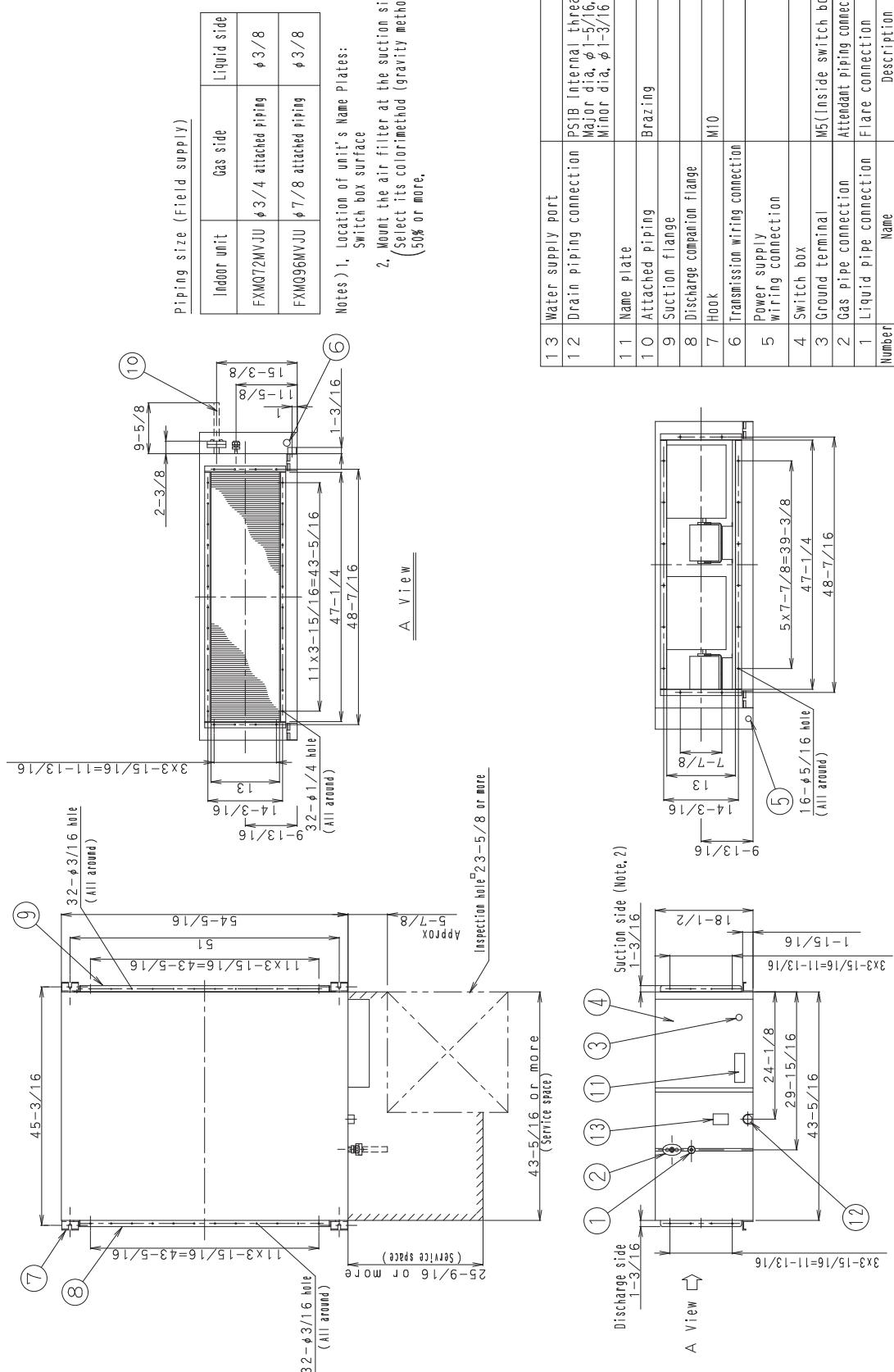


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4. Dimensions

F XMQ72-96MVJU

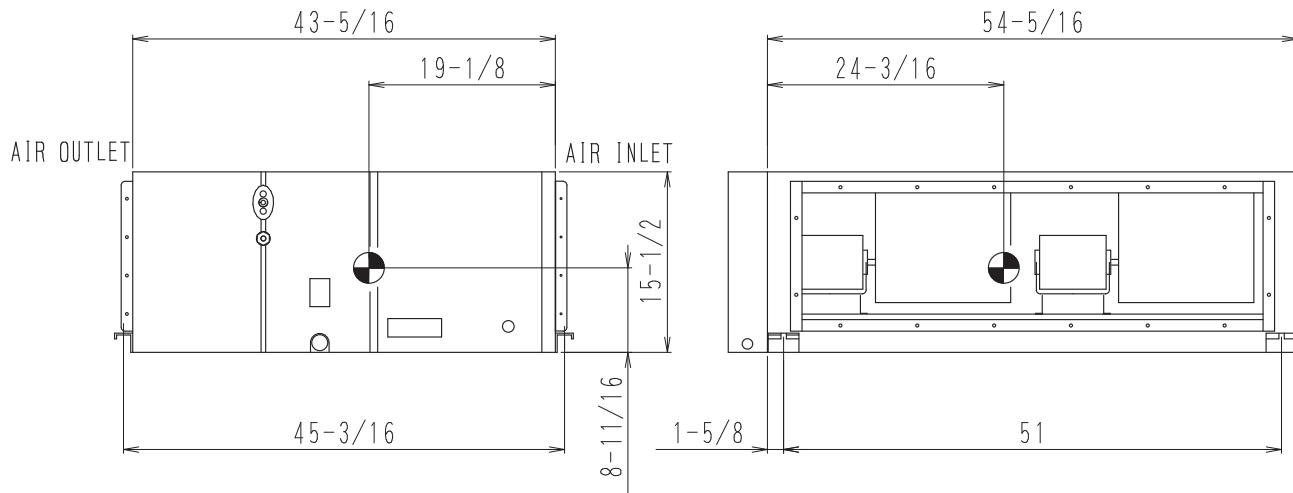
Unit: in.



5. Center of Gravity

FXMQ72-96MVJU

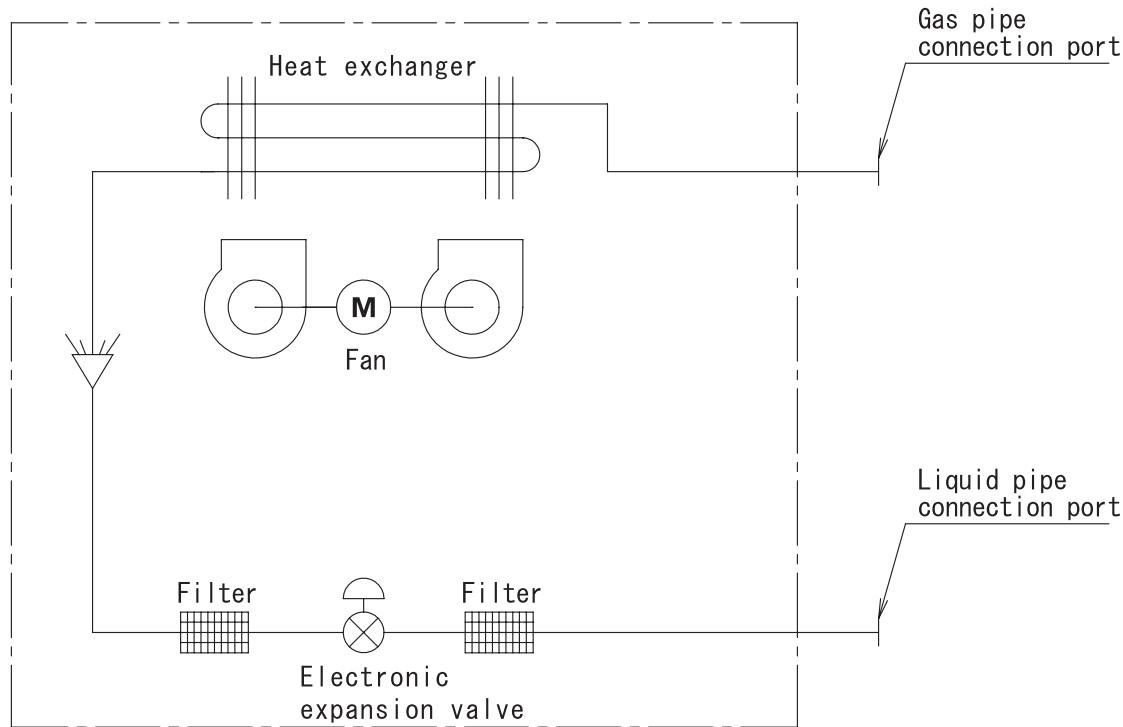
Unit: in.



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6. Piping Diagrams

FXMQ72-96MVJU

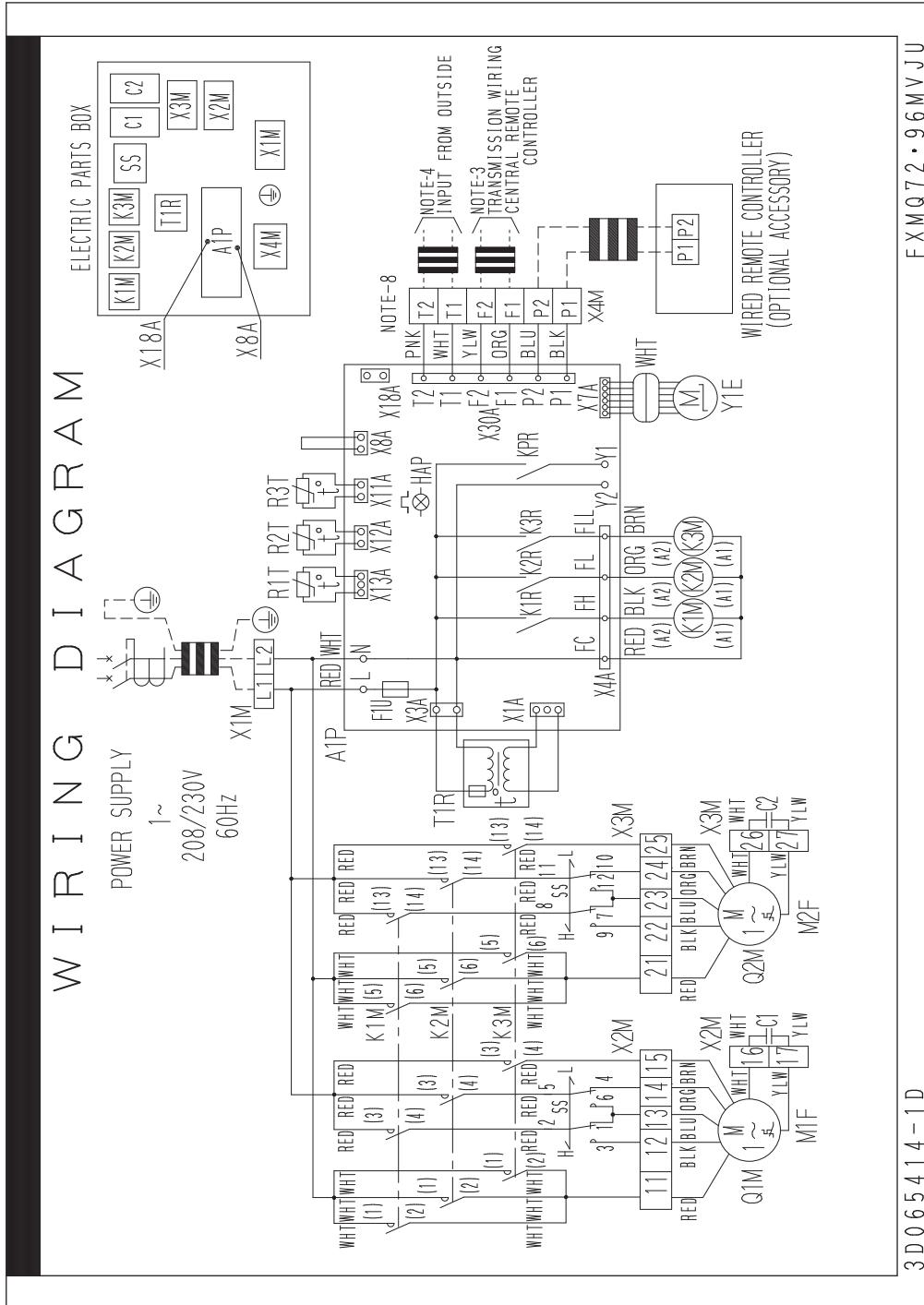


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Unit: in.		
Model	Gas	Liquid
FXMQ72MVJU	$\phi 3/4$	$\phi 3/8$
FXMQ96MVJU	$\phi 7/8$	$\phi 3/8$

7. Wiring Diagrams

F XMQ72-96MVJU



F XMQ72-96MVJU

ELECTRICAL COMPONENTS AND WIRING CONNECTORS FOR INDOOR UNIT	
A1P	PRINTED CIRCUIT BOARD
C1-C2	CAPACITOR (M1F-2F)
F1U	FUSE (B, 5 A, 250 V)
HAP	LIGHT EMITTING DIODE (SERVICE MONITOR-GREEN)
K1M	MAGNETIC CONTACTOR (M1F-2F)
K2M	MAGNETIC CONTACTOR (M1F-2F)
K3M	MAGNETIC CONTACTOR (M1F-2F)
K1R - K3R	MAGNETIC RELAY (M1F-2F)
KPR	MAGNETIC RELAY (M1P)
M1F-M2F	MOTOR (INDOOR FAN)
Q1M-Q2M	THERMO SWITCH (M1F-2F EMBEDDED)
R1T	THERMISTOR (AIR)
R2T-R3T	THERMISTOR (COIL)
SS	SELECTOR SWITCH (STATIC PRESSURE)
T1R	TRANSFORMER (208 V / 230 V 25 VA)
X1M	TERMINAL BLOCK (POWER)
X2M - X3M	TERMINAL BLOCK
X4M	TERMINAL BLOCK (CONTROL)
Y1E	ELECTRONIC EXPANSION VALVE
CONNECTOR FOR OPTIONAL PARTS	
X8A	CONNECTOR (FLOAT SWITCH)
X18A	CONNECTOR (WIRING ADAPTOR FOR ELECTRICAL APPENDICES)

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8. Electric Characteristics

FXMQ72-96MVJU

Model	Power supply					IFM		Input (W)		SCCR
	Hz	Volts	Voltage range	MCA	MOP	KW	FLA	Cooling	Heating	
FXMQ72MVJU	60	208/230 V	Max. 253 V	9.5	15	0.380 × 2	7.6	1,490	1,490	SCCR kA rms, Symmetrical @600 V MAX: 5
FXMQ96MVJU			Min. 187 V	10.7	15	0.380 × 2	8.6	1,684	1,684	

Symbol:

MCA: Min. Circuit Amps (A)

MOP: Max. Overcurrent Protective Device (A)

KW: Fan Motor Rated Output (kW)

FLA: Full Load Amps (A)

IFM: Indoor Fan Motor

SCCR: Short-Circuit Current Rating

Note:

1. Voltage range

Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.

2. Maximum allowable voltage unbalance between phase is 2%.

3. MCA/MOP

$$\text{MCA} = 1.25 \times \text{FLA}$$

$$\text{MOP} \leq 4 \times \text{FLA}$$

(Next lower standard fuse rating. Min. 15 A)

4. Select wire size based on the MCA.

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9. Safety Device Setting

Model	FXMQ72MVJU	FXMQ96MVJU
Printed circuit board fuse	250 V, 5 A	250 V, 5 A
Fan motor thermal fuse	°F	—
Fan motor thermal protector	°F	OFF: 275±14 (ON: 189±27)

10. Capacity Tables

10.1 Cooling Capacity at Te: 43°F (6°C)

Model	Indoor air temp. °FWB (°CWB) (Te: 43°F (6°C))											
	61 (16.1)		64 (17.8)		67 (19.4)		70 (21.1)		72 (22.2)		75 (23.9)	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH	MBH
FXMQ72MVJU	56.9	50.8	64.4	53.8	72.0	56.9	73.4	56.5	74.4	55.0	75.8	52.8
FXMQ96MVJU	75.8	63.7	85.9	67.4	96.0	71.1	97.9	70.5	99.2	69.1	101.0	65.8

TC: Total capacity: MBH

SHC: Sensible heat capacity: MBH

Note:

1. These capacity tables can be used when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
2. shows rated condition.

10.2 Heating Capacity

Model	Indoor air temp. °FDB (°CDB) (Tc: 115°F (46°C))					
	62 (16.7)		65 (18.3)		68 (20.0)	
	TC	TC	TC	TC	TC	TC
	MBH	MBH	MBH	MBH	MBH	MBH
FXMQ72MVJU	94.5	88.5	84.0	81.0	78.0	73.5
FXMQ96MVJU	126	118	112	108	104	98.0

TC: Total capacity: MBH

Note:

1. These capacity tables can be used when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
2. shows rated condition.

10.3 Correction Factor for Cooling Capacity at Te: 48°F (9°C)

Refer to the correction factor table below when a mini-split indoor unit is connected to a **VRV** Heat Pump system using a Branch Port box.

Model	Indoor air temp. °FWB (°CWB) (Te: 48°F (9°C))											
	57 (13.9)		61 (16.1)		64 (17.8)		67 (19.4)		70 (21.1)		72 (22.2)	
	TC	SHF	TC	SHF	TC	SHF	TC	SHF	TC	SHF	TC	SHF
FXMQ72MVJU	0.68	1.13	0.70	1.16	0.76	1.11	0.80	1.08	0.82	1.06	0.84	1.06
FXMQ96MVJU	0.68	1.13	0.72	1.15	0.78	1.10	0.81	1.08	0.83	1.06	0.84	1.05

TC: Total capacity

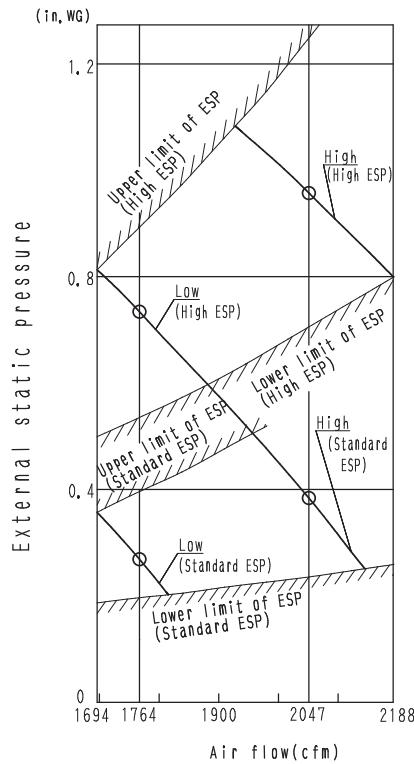
SHF: Sensible heat factor

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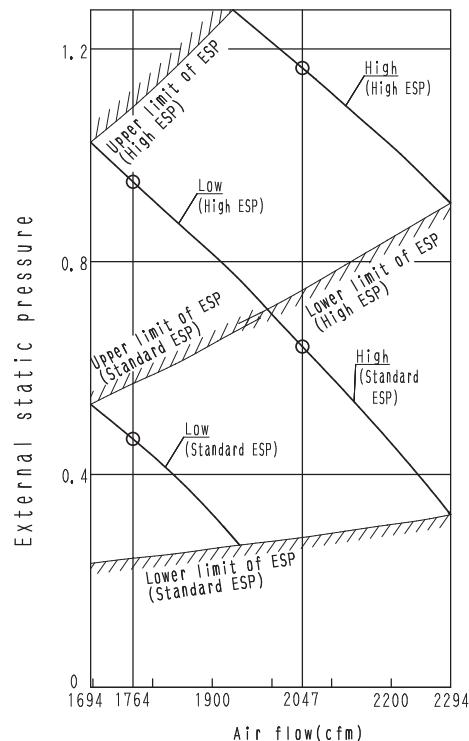
11. Fan Performances

F XM MQ72MVJU

60Hz 208V



60Hz 230V

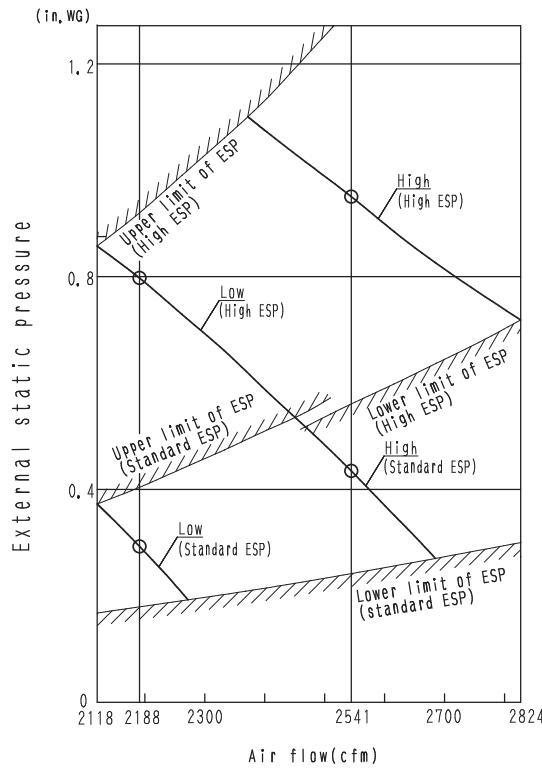
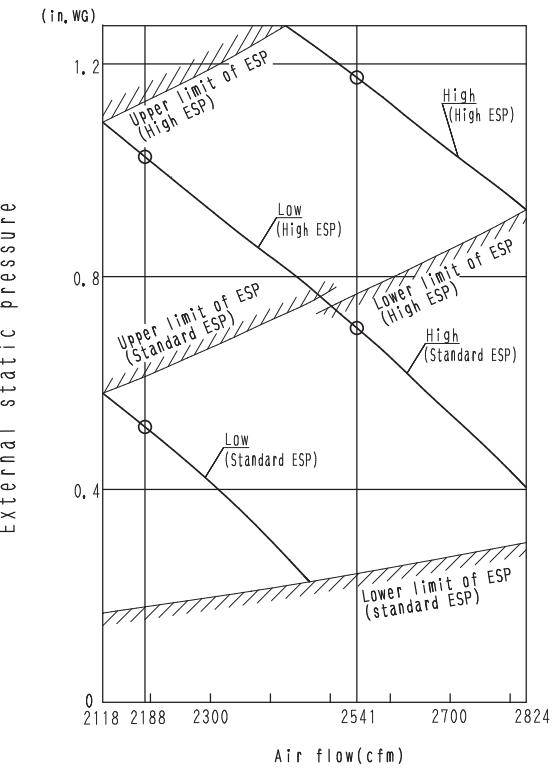


Note:

1. The remote controller can be used to switch between "high" and "low".
 2. The air flow is set to "standard" before leaving the factory.
- It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.

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FXMQ96MVJU

60Hz 208V60Hz 230V**Note:**

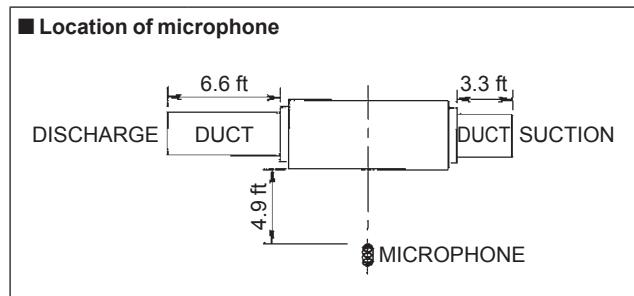
1. The remote controller can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory.

It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.

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12.Sound Levels (Reference Data)

12.1 Overall



Note:

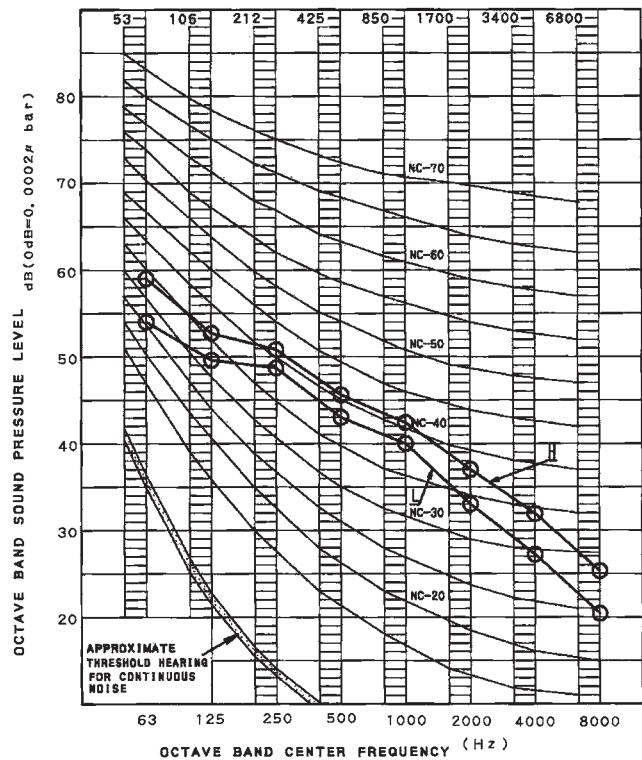
1. Operation noise differs with operation and ambient conditions.

Model	208/230 V, 60 Hz	
	H	L
FXMQ72MVJU	49.0	46.0
FXMQ96MVJU	49.0	46.0

12.2 Octave Band Level

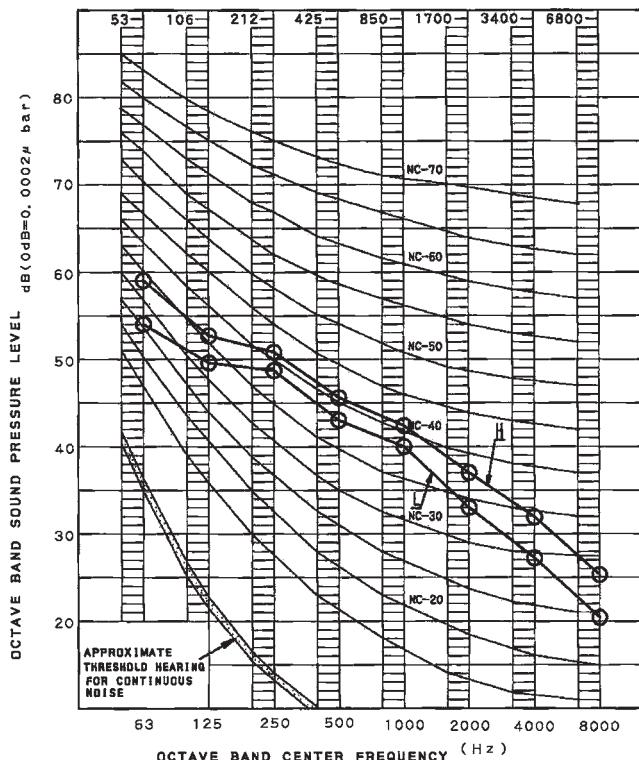
○—○ 208/230 V, 60 Hz

FXMQ72MVJU



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FXMQ96MVJU



C: 4D068754

13. Accessories

13.1 Optional Accessories (for Unit)

Option		FXMQ72MVJU	FXMQ96MVJU
High efficiency filter	65%		KAF372M280
	90%		KAF373M280
Filter chamber			KDJ3705L280
Long life replacement filter			KAF371M280

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- Warning**
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.
- If you have any inquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.