



Heating and Cooling

Job Name: _____ Engineer: _____
 Purchaser: _____
 Location: _____
 Submitted To: _____ For: Reference Approval Construction
 Submitted By: _____
 Unit Designation: _____ Schedule No. _____

SUBMITTAL DATA: MSZ-FH09NA / MUZ-FH09NAH(-1)

Capacities:

Cooling Rated (Max. - Min) Btu / hr	9,000 (12,000 – 1,700)
Cooling Rated Power (Max. - Min) Watts	560 (1,000 - 100)
SEER (SEER2) / EER (EER2)	30.5 (29.8) / 16.1 (16.07)
Sensible Heat Ratio	0.920
Moisture Removal Pints/hr	0.6
Heating @47F :Rated (Max.- Min.) Btu / hr	10,900 (18,000 – 1,600)
Heating @47F :Rated Power (Max. - Min) Watts	710 (1,470 - 110)
Heating @17F :Rated (Max.) Btu / hr	6,700 (12,200)
Heating @17F :Power (Max. Power) Watts	600 (1,440)
HSPF IV NA (NAH) [HSPF2] / COP @ 47F	13.5 (12.5)[10.0] / 4.50
Heating @5F :Rated (Max.) Btu / hr	10,900

Indoor Unit Specification:

Power Supply *1	208/230Vac 1Φ 60Hz
MCA	1A
Weight	29 lbs (13.15 Kg)
Sound (quiet-L-M-H super H)	cooling 20-23-29-36-40 dB(A)
Sound (quiet-L-M-H-super H)	heating 20-24-29-36-42 dB(A)
Airflow (quiet-L-M-H super H)	Dry CFM 137-167-221-304-381
Airflow (quiet-L-M-H super H)	Wet CFM 117-143-190-261-326
Airflow (quiet-L-M-H super H)	Heat Dry CFM 140-167-225-325-437
Moisture removal	0.6 pt./h

Refrigerant Piping:

Liquid	1/4" (6.35mm)
Gas	3/8" (9.52mm)
Connection method	flared
Condensate drain connection OD	5/8" (15.88)

Operating Range		
Mode	Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Max. 90°F/32°C D.B. 73°F/23°C W.B.	115°F/46°C D.B.
	Min. 67°F/19°C D.B. 57°F/14°C W.B.	14°F/-10°C D.B.
Heating	Max. 80°F/27°C D.B. 67°F/19°C W.B.	75°F/24°C D.B. 65°F/18°C W.B.
	Min. 70°F/21°C D.B. 60°F/15°C W.B.	-13°F/-25°C D.B. -14°F/-22.5°C W.B.

Controller Options :

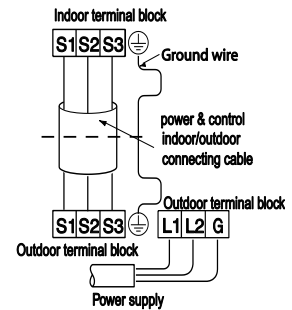
- Wireless Wall-mounted Remote Controller Kit (MHK1)*
- Portable Central Controller (MCCH1)*
- Outdoor Air Sensor (MOS1)*
- Wired Wall-mounted Controller (PAR-31MAA requires MAC-333IF)*
- Simple MA Remote Controller (PAC-YT53CRAU requires MAC-333IF)*
- Control Interface (MAC-333IF)(RemoteON/OFF) (Remote error/operation display)
- Auxiliary HEAT output signal on CN24 requires optional cable MAC-1710RA-U

*See Submittal for information on each option.

Above capacity based on AHRI 210/240 test condition
Specification subject to change without notice



Indoor - Outdoor Power Connection



Electrical Wiring:*1 Indoor unit Power is supplied by the outdoor unit on terminals S1, S2
Main Input power on terminal L1 and L2

Standard Features:

- Highly energy-efficient system with quiet operation
- Energy Star rated
- "Powerful Mode" function permits system to temporarily run at a lower/higher temperature with an increased fan speed, which quickly brings the room to the optimum comfort level
- Pre-charged Refrigerant (up to 25ft. / 7.6M of piping one way)
- 5 year parts, 7 years compressor warranty
- Base Heater (MAC-640BH-U) included in MUZ-FH09NAH
- Easy maintenance with self-diagnostic feature
- Nano Platinum air purifying filter
- Variable compressor speed inverter technology
- Low ambient cooling (14°F/-10°C)
- Auto change-over between heating and cooling modes.
- Low ambient heating cut-out / restart temp. (-18°F/-27°C) (-14°F/-25°C)
- MUZ-FH09NAH-1 - Outdoor unit blue fin coated coil
- COP at 5°F / 2.73

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SUBMITTAL DATA: MSZ-FH09NA / MUZ-FH09NAH(-1)

***All electrical work shall comply with National (CEC) and local codes and regulations.**

Outdoor Unit Specification:

Power Supply*1.....	208/230Vac 1Φ 60Hz
MCA.....(*).....	11A
Breaker size.....	15A
Weight.....	81 lbs (36.7Kg)
Sound (cooling).....	49 dB(A)
Sound (Heating).....	51 dB(A)

Refrigerant Piping:

Liquid.....	1/4" (6.35mm)
Gas.....	3/8" (9.52mm)
Max. height difference.....	40 ft. (12.5m)
Max. length.....	65 ft. (19.8m)
Connection Method.....	flared

Optional Controls:

- MAC-333IF-E (M-Net control or BMS control through LonWorks or BacNet)
- PAR-21MAA (Wired remote controller with MAC-333IF-E)
- MAC-333IF-E (Remote ON/OFF)
- PAR-31MAA (Wired remote controller with MAC-333IF-E)



- Windscreens (ME-FR-15-17)

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

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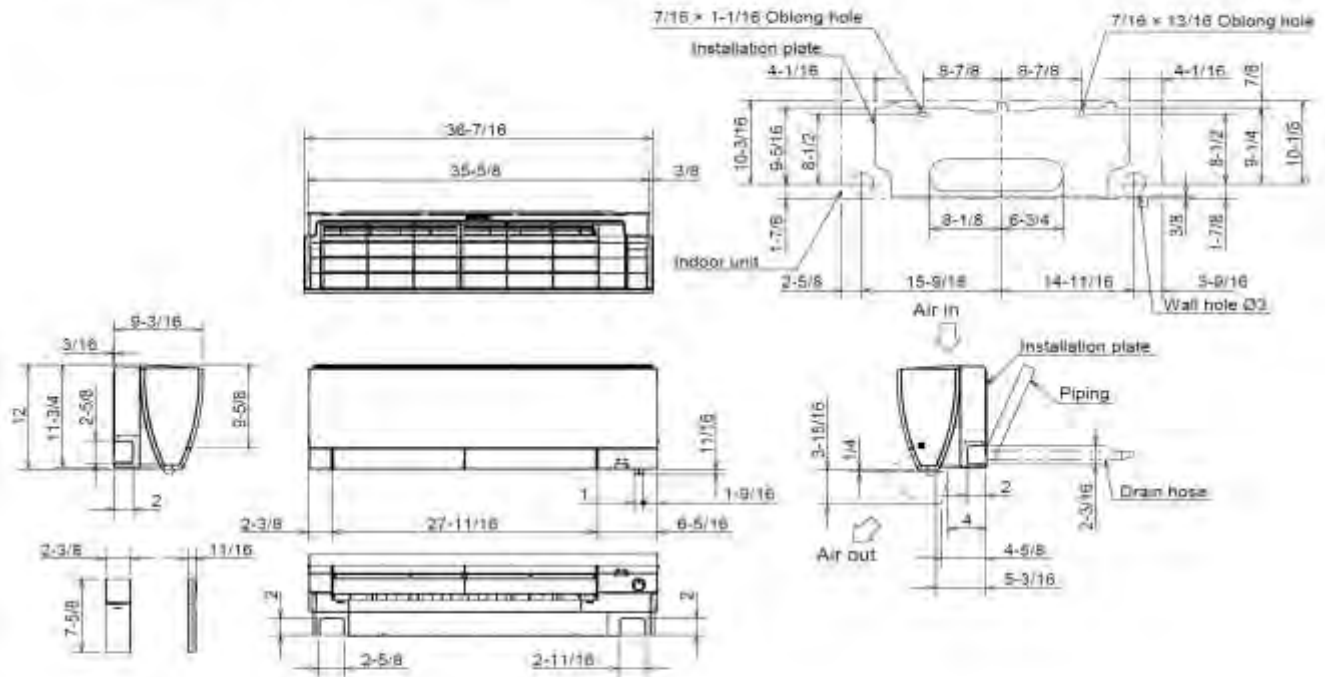
Dimension inch (mm)

Notes:

OUTLINES and DIMENSIONS

MSZ-FH09NA MSZ-FH12NA MSZ-FH15NA

Unit: inch



(MSZ-FH09/12NA)

Piping	Insulation	Ø1-7/16 O.D.
	Liquid line	Ø1/4 15-3/8 (Flared connection Ø1/4)
	Gas line	Ø3/8 13-3/8 (Flared connection Ø2/8)
	Drain hose	Insulation Ø1-1/8 Connected part Ø5/8 O.D.

(MSZ-FH15NA)

Piping	Insulation	Ø1-7/16 O.D.
	Liquid line	Ø1/4 15-3/8 (Flared connection Ø1/4)
	Gas line	Ø3/8 13-3/8 (Flared connection Ø1/2)
	Drain hose	Insulation Ø1-1/8 Connected part Ø5/8 O.D.

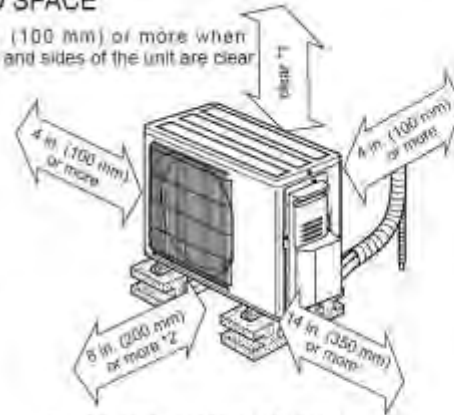
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MUZ-FH09NA MUZ-FH09NAH MUZ-FH12NA MUZ-FH12NAH

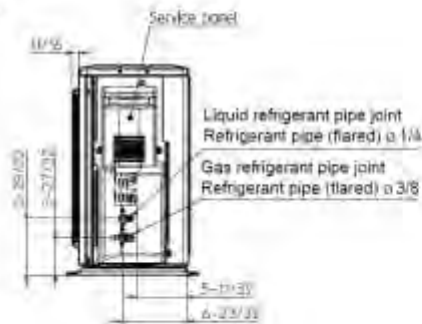
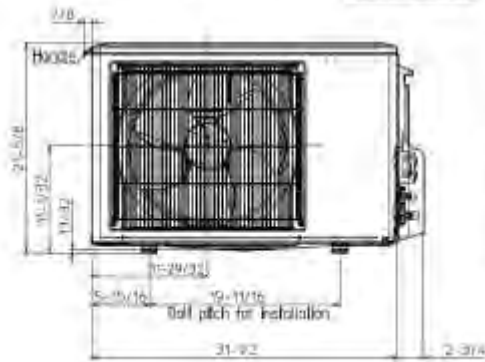
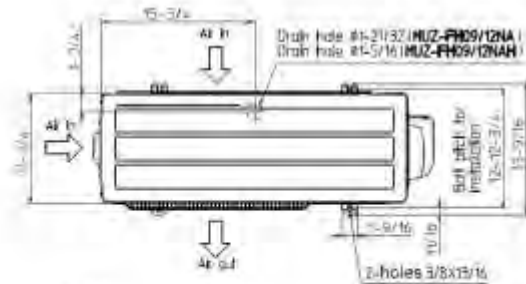
Unit: inch

REQUIRED SPACE

*1 4 in. (100 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



NOTE: Mount unit 12 inches above local snow height



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