MITSUBISHI ELECTRIC
COOLING & HEATING

ENERGY STAR

M-SER

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/29/17

SUBMITTAL DATA: MSZ-FH09NA & MUZ-FH09NA

9,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For ☐Reference ☐Approval ☐Construction	
System Designation:	Schedule No.:	

Indoor Unit: MSZ-FH09NA

Wireless Remote Controller

Outdoor Unit: MUZ-FH09NA

GENERAL FEATURES

- Highly energy-efficient system that features 100% heating capacity at 5°F, 82% at -4°F, and 62% at -13°F
- Updated sleek, compact indoor unit design
- Includes Standard, Platinum Deodorizing, and Anti-allergy Enzyme filters for a complete air purifying system
- "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
- Integrated i-see Sensor automatically adjusts the unit's operation according to temperature differences detected between the floor and the intake air, ensuring optimum comfort and energy usage
- Hand-held Wireless Remote Controller
- Base heater is available as an option
- Limited warranty: five years parts and seven years compressors

ACCESSORIES

Outdoor Unit

☐ Base Heater (MAC-640BH-U)
☐ Drain Socket (MAC-851DS)

Indoor Unit

☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
☐ Condensate Pump (Sauermann SI30-115/230; 115/230V)
☐ Replacement Platinum Deodorizing Filter (MAC-3000FT-E)
☐ Replacement Anti-allergy Enzyme Filter ((MAC-2330FT-E)

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)*
*See Submittal for information on each option.
☐ System Control Interface (MAC-333IF)

R410A INVERTER

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Cooling*1
- Rated Capacity....9,000 Btu/h
- Capacity Range....1,700 - 12,000 Btu/h
- Rated Total Input ....560 W
- Maximum Total Input....1,000 W
- SEER .... 30.5 Btu/h/W

Heating at 47° F*2
- Rated Capacity....10,900 Btu/h
- Capacity Range....1,600 - 18,000 Btu/h
- Rated Total Input ....710 W
- Maximum Total Input ....1,470 W
- HSPF.... 13.5 Btu/h/W

Heating at 17° F *3
- Rated Capacity....6,700 Btu/h
- Max. Capacity ....12,200 Btu/h
- Rated Total Input ....600 W
- Maximum Total Input ....1,440 W

Heating at 5° F *4
- Max. Capacity ....10,900 Btu/h
- Maximum Total Input ....1,500 W

Rating Conditons:

*1 Cooling | Indoor: 80º F (27º C) DB / 67º F (19º C) WB
*1 Cooling | Outdoor: 95º F (35º C) DB / 75º F (24º C) WB
*2 Heating at 47ºF | Indoor: 70º F (21º C) DB / 60º F (16º C) WB
*2 Heating at 47ºF | Outdoor: 47º F (8º C) DB / 43º F (6º C) WB
*3 Heating at 17º F | Indoor: 70º F (21º C) DB / 60º F (16º C) WB
*3 Heating at 17º F | Outdoor: 17º F (-8º C) DB / 15º F (-9º C) WB
*4 Heating at 5º F | Indoor: 70º F (21º C) DB / 60º F (16º C) WB
*4 Heating at 5º F | Outdoor: 5º F (-15º C) DB / 5º F (-15º C) WB

Electrical Requirements
- Power Supply .... 208 / 230V, 1-Phase, 60 Hz
- Breaker Size .... 15 A

Voltage
- Indoor - Outdoor S1-S2 . . . . . AC 208 / 230V
- Indoor - Outdoor S2-S3 . . . . . DC +/- 24V
- Indoor - Remote Controller . . . . . MKH1 DC 3V
  - PAR-31MAA DC 12V
  - PAC-YT53CRAU DC 12V

Operating Conditons

Cooling
- Indoor Intake Air Temp. . .(Max.) 90º F (32º C) DB / 73º F (23º C) WB
  (Min.) 67º F (19º C) DB / 57º F (14º C) WB
- Outdoor Intake Air Temp. . . . . (Max.) 115º F (46º C) DB
  (Min.) 14º F (-10º C) DB

Heating
- Indoor Intake Air Temp. . .(Max.) 80º F (27º C) DB / 67º F (19º C) WB
  (Min.) 70º F (21º C) DB / 60º F (16º C) WB
- Outdoor Intake Air Temp. (Max.)75º F (24º C) DB / 65º F (18º C) WB
  (Min.) -13º F (-25º C) DB / -15º F (-26º C) WB**

** System cuts out at -18º F (-28º C) to avoid thermistor error, but recovers from cutout operation and automatically restarts at -13º F (-25ºC).

Indoor Unit
- MCA ....
- Blower Motor (ECM)....0.67 F.L.A.
- Blower Motor Output ....30 W

Airflow (Lo - Med - Hi - Super Hi - Powerful)
- Cooling .... 137-167-221-304-381 Dry CFM
  117-143-190-261-328 Wet CFM
- Heating.... 140-167-225-325-437 Dry CFM

Sound Pressure Level (Lo - Med - Hi - Super Hi - Powerful)
- Cooling .... 20-23-29-36-40 dB(A)
- Heating.... 20-24-29-36-42 dB(A)

External Finish Color .... Munsell 1.0Y 9.2/0.2

External Dimensions
- Inches: ....12 + 11/16 H x 36-7/16 W x 9-3/16 D
- mm: ....305 +17 H x 925 W x 234 D

Weight Unit ....29 lbs. / 12 kg

Field Drainpipe Size O.D. .... 19/32 In. / 15mm

Outdoor Unit
- MCA .... 11 A
- Fan Motor (ECM) ....0.50 F.L.A.

Sound Pressure Level
- Cooling *1....48 dB(A)
- Heating *2 ....49 dB(A)

External Finish Color .... Munsell 3Y 7.8/1.1

Dimensions
- Inches:....21-5/8 H x 31-1/2 W x 11-1/4 D
- mm: ....550 H x 800 W x 285 D

Weight ....81 lbs. / 36 kg

Refrigerant Type R410A

Refrigerant Pipe
- Gas Side O.D. .... 3/8“ x 9.52 mm
- Liquid Side O.D. .... 1/4” x 6.35 mm

Max. Refrigerant Pipe Length
- Height Difference .... 40’ / 12m
- Length .... 65’ / 20m

Connection Method
- Indoor/Outdoor ....Flared

Notes:

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DIMENSIONS: MSZ-FH09NA & MUZ-FH09NA

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MSZ-FH09NA

Unit: mm (

MUZ-FH09NA

REQUIRED SPACE

Unit: mm (in.)

AHRI CERTIFIED™ www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

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