M-SERIES

SUBMITTAL DATA: MSZ-FH09NA & MUZ-FH09NA

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

CITY OF PORTLAND, MAINE
Inspections Division
Date: 08/18/17

Job Name:	
System Reference:	Date:

Indoor Unit: MSZ-FH09NA

Wireless Remote Controller

Outdoor Unit: MUZ-FH09NA

ACCESSORIES:

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)

Outdoor Unit

- ☐ Base Pan Heater (MAC-640BH-U)
- ☐ Drain Socket (MAC-860DS)

Controls

- ☐ Wireless Controller (MHK1)
- ☐ Wired Remote Controller PAR-31MAA (Requires MAC-333IF-E)
- ☐ Wireless Interface for kumo cloud™ (PAC-WHS01WF-E)
- ☐ Thermostat Interface (PAC-US444CN-1)

SPECIFICATIONS:

Rated Conditions (Capacity / Input)		
Cooling[1]	Btu/h / W	9,000 / 560
Heating at 47° F[2]	Btu/h / W	10,900 / 710

Capacity Range		Minimum	Maximum
Cooling[1]	Btu/h	1,700	12,000
Heating at 47° F[2]	Btu/h	1,600	18,000
Heating at 17° F[3]	Btu/h	-	12,200
Heating at 5° F[4]	Btu/h	-	10,900

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

* Rating Conditions per AHRI Standard

Operating Conditons (Indoor Intake Air Temp.) (Max./ Min.)	
Cooling[5]	90° F (32° C) DB / 67° F (19° C) DB
Heating	80° F (27° C) DB / 70° F (21° C) DB

Operating Conditons (Outdoor Intake Air Temp.) (Max./ Min.)	
Cooling[5]	115° F (46° C) DB / 14° F (-10° C) DB
Heating	75° F (24° C) DB / -13° F (-25° C) DB**

[5] Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

** System cuts out at -18° F (-28° C) to avoid thermistor error and automatically restarts at -14° F (-26° C).

AHRI Efficiency Ratings	
SEER	30.5
HSPF	13.5
COP at 47° F	4.5
COP at 17° F	3.33

Energy Star®	Yes

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

Specifications are subject to change without notice.

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz

Minimum Circuit Ampacity (MCA)		
Indoor / Outdoor	A	1 / 11

Indoor Unit		
Blower Motor (ECM)	F.L.A.	0.67
Blower Motor Output	W	30
SHF / Moisture Removal		0.92 / 0.6 pt./h
Field Drainpipe Size O.D.	In.(mm)	5/8 (15)

Outdoor Unit		
Compressor		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.50

Airflow Rate (Lo - Med - Hi - Super Hi - Powerful)			
Indoor (Cooling)	DRY	CFM	137-167-221-304-381
	WET		117-143-190-261-328
Indoor (Heating)	DRY		140-167-225-325-437
Outdoor			1,150 / 1,280

Sound Pressure Level (Lo - Med - Hi - Super Hi - Powerful)			
Indoor	Cooling	dB(A)	20-23-29-36-40
	Heating		20-24-29-36-42
Outdoor	Cooling		48
	Heating		49

External Dimensions		
Indoor (H x W x D)	In.(mm)	12 + 11/16 x 36-7/16 x 9-3/16 (305 +17 x 925 x 234)
Outdoor (H x W x D)		21-5/8 x 31-1/2 x 11-1/4 (550 x 800 x 285)

Net Weight		
Indoor	Lbs.(kg)	29 (12)
Outdoor		81 (37)

External Finish	
Indoor	Munsell 1.0Y 9.2 / 0.2
Outdoor	Munsell No. 3Y 7.8 / 1.1

Refrigerant	R410A ; 2 lb. 9 oz.

Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	1/4 (6.35)
Gas (Low Pressure)		3/8 (9.52)
Max. Total Refrigerant Pipe Length (Height Diff.)	Ft. (m)	40 (12)
Max. Total Refrigerant Pipe Length (Length.)		65 (20)

© 2016 Mitsubishi Electric US, Inc.