M-SERIES

SUBMITTAL DATA: MSZ-FH09NA & MUZ-FH09NA 9,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:



GENERAL FEATURES

- Slim wall-mounted indoor units provide zone comfort control.
- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns.
- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- H2i® Hyper Heat Performance offers 100% heating capacity at 5°F and 70%-81% heating capacity at -13°F
- · Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- 3D i-see SensorTM enables advance features:
 - Indirect or Direct Airflow for personalized comfort
 - Absence Detection for energy-saving mode
- Double Vane features:
 - Separates airflow to deliver air across a large area
 - Simultaneously deliver air to two people in different locations
 - Generates more comfortable natural airflow pattern
- Multiple control options available:
 - Hand-held Remote Controller (provided with unit)
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Triple-action Filtration: Nano Platinum Filter, Deodorizing Filter, & Electrostatic Anti-Allergy Enzyme Filter
- · Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- Quiet operation
- · Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life
- Built-in base pan heater to prevent ice in drain pan

SPECIFICATIONS: MSZ-FH09NA & MUZ-FH09NA

	Maximum Capacity	Btu/h	12,000	
	Rated Capacity	Btu/h	9,000	
	Minimum Capacity Btu/h		1,700	
	Maximum Power Input W		1,000	
Cooling ¹	Rated Power Input	W	560	
	Moisture Removal	Pints/h	0.6	
	Sensible Heat Factor	1 1113/11	0.92	
	Power Factor	%	90 / 90	
	Maximum Capacity	Btu/h	18,000	
	Rated Capacity	Btu/h	10,900	
Heating at 47°F ²	Minimum Capacity	Btu/h	1,600	
	Maximum Power Input	W	1,470	
	Rated Power Input	W	710	
	Power Factor	%	94 / 94	
	Maximum Capacity	Btu/h	12,200	
Heating at 17°F ³	Rated Capacity	Btu/h	6,700	
	Maximum Power Input	W	1,440	
	Rated Power Input	W	600	
Heating at 5°F ⁴	Maximum Capacity	Btu/h	10,900	
	Maximum Power Input	W	1,350	
Heating at -4°F ⁵	Maximum Capacity Btu/h		9,260	
Heating at -13°F ⁶	Maximum Capacity Btu/h		7,630	
	SEER		30.5	
	EER ¹		16.1	
	HSPF (IV)		13.5	
Efficiency	COP at 47°F ²	4.50		
	COP at 17°F in Maximum Capacity ³	2.48		
	COP at 5°F in Maximum Capacity ⁴	2.37		
	ENERGY STAR [®] Certified (ENERGY STAR products are an EPA-recognized Certification Body.)	YES		
	Voltage, Phase, Frequency		208/230V, 1 phase, 60Hz	
	Guaranteed Voltage Range	V AC	187 - 253	
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230	
Electrical	Voltage: Indoor - Outdoor, S2-S3	V DC	24	
	Voltage: Indoor - Remote Controller		Wireless Type	
	Recommended Fuse/Breaker Size A		15	
	Recommended Wire Size (Indoor - Outdoor)	AWG	14	
	MCA	A	1	
	MOCP A		15	
Indoor Unit				
Indoor Unit	Blower Motor Full Load Amperage	A	0.67	

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	Airflow Rate at Cooling, Dry	CFM	381-304-221-167-137
	Airflow Rate at Cooling, Wet CFM		328-261-190-143-117
	Airflow Rate at Heating, Dry CFM		437-325-225-167-140
	Sound Pressure Level (Cooling) dB(A)		40-36-29-23-20
	Sound Pressure Level (Heating)	dB(A)	42-36-29-24-20
	Drain Pipe Size	In. (mm)	5/8 (15.88)
	Heat Exchanger Type		Plate fin coil
	External Finish Color	Munsell 1.0Y 9.2/0.2	
	W: In. (mm)		36-7/16 (925)
	Unit Dimensions	D: In. (mm)	9-3/16 (234)
		H: In. (mm)	12 [+11/16] (305 [+17])
		W: In. (mm)	39 (990)
	Package Dimensions	D: In. (mm)	12-1/4 (310)
		H: In. (mm)	12-3/16 (310)
	Unit Weight	Lbs. (kg)	29 (13.5)
	Package Weight	Lbs. (kg)	34 (15.4)
ndoor Unit Operating	Cooling Intake Air Temp (Maximum / Minimum)*	°F	90 DB, 73 WB / 67 DB, 57 WB
Temperature Range	Heating Intake Air Temp (Maximum / Minimum)	°F	80 DB / 70 DB
	MCA	A	11
	MOCP A		15
	Fan Motor Full Load Amperage	A	0.5
	Fan Motor Output	W	55
	Airflow Rate CFM		1,074 / 1,202
	Refrigerant Control	LEV	
	Defrost Method		Reverse cycle
	Heat Exchanger Type		Plate fin coil
	Sound Pressure Level, Cooling ¹ dB(A)		48
	Sound Pressure Level, Heating ² dB(A)		49
	Compressor Type		DC INVERTER-driven
Outdoor Unit	Compressor Model		SNV0912FQAMT
	Compressor Rated Load Amps	A	8.2
	Compressor Locked Rotor Amps	A	10.3
	Compressor Oil Type // Charge oz.		FV50S // 11.8
	External Finish Color		Munsell 3Y 7.8/1/1
	Base Pan Heater		Optional
		W: In. (mm)	31-1/3 (800)
	Unit Dimensions	D: In. (mm)	11-1/5 (285)
		H: In. (mm)	21-5/9 (550)
		W: In. (mm)	37 (940)
	Package Dimensions D: In. (mm)		14-15/16 (380)
		H: In. (mm)	24-13/16 (630)

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Unit Weight Package Weight		Lbs. (kg)	81 (37)
		Lbs. (kg)	88 (40)
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)*	°F	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures** °F		-1 / 3
	Heating Air Temp (Maximum / Minimum)		75 / -13
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-18 / -14
Refrigerant	Туре		R410A
	Charge	Lbs, oz	2, 9
Piping	Gas Pipe Size O.D. (Flared)	In. (mm)	3/8 (9.52)
	Liquid Pipe Size O.D. (Flared)	In. (mm)	1/4 (6.35)
	Maximum Piping Length	Ft. (m)	65 (20)
	Maximum Height Difference Ft. (m)		40 (12)
	Maximum Number of Bends		10

Notes

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB
Conditions	⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB
	⁵ Heating at -4°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB
	⁶ Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 WB

*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. **System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

ACCESSORIES: MSZ-FH09NA

Deodorizing Filter	□ MAC-3000FT-E
Electrostatic Anti-allergy Enzyme Filter	□ MAC-2330FT-E
Backlit, Wall-mounted, Wireless Controller	D MHK1
Portable Central Controller	D MCCH1
Wired MA Controller ¹	D PAR-33MAA
Simple MA Controller ¹	D PAC-YT53CRAU
Fouch MA Controller ¹	D PAR-CT01MAU-SB
Nired Remote Sensor	□ M21-EAA-307
Nireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Dutside Air Sensor for MHK1	□ MOS1
System Control Interface ²	□ MAC-333IF-E
Vireless Interface	□ PAC-USWHS002-WF-1
Fhermostat Interface	□ PAC-US444CN-1
rumo station®	□ PAC-WHS01HC-E
JSNAP Interface	□ PAC-WHS01UP-E
T Extender	□ PAC-WHS01IE-E
BACnet [®] and MODBUS [®] Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	CN24RELAY-KIT-CM3
ockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
Blue Diamond Alarm Extension Cable — 6.5 Ft.	□ C13-192
Blue Diamond MultiTank — collection tank for use with multiple pumps	□ C21-014
Blue Diamond Rubber Foot Pads	□ F10-010
Jini Condensate Pump — 230 volt application	□ SI30-230
legaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 Btu/h recommended]	□ X87-711 - 110V
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
licroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 Btu/h	□ X85-003
ascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit	□ T18-016
Drain Pan Level Sensor	DPLS2
30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W
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¹ Requires MAC-333IF-E

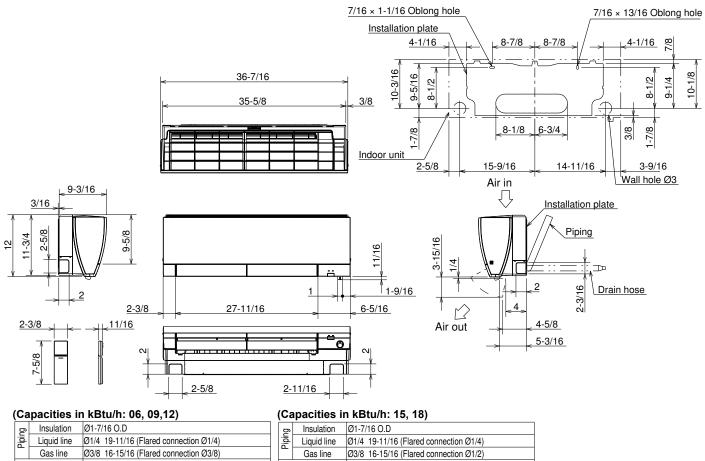
² Allows indoor units to connect to an MA Controller

ACCESSORIES: MUZ-FH09NA

Air Outlet Guide	□ MAC-881SG
Drain Socket	□ MAC-860DS
Optional Defrost Heater	□ MAC-640BH-U
Hail Guard	□ HG-B4
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
Condensing Unit Mounting Pad 16" x 36" x 3"	ULTRILITE1
Outdoor Unit Stand — 12" High	□ QSMS1201M
Outdoor Unit Stand — 18" High	□ QSMS1801M
Outdoor Unit Stand — 24" High	□ QSMS2401M
Heavy Duty Wall Mounting Bracket— Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	
15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)	□ MLS143812T-65

DIMENSIONS: MSZ-FH09NA

Unit: inch

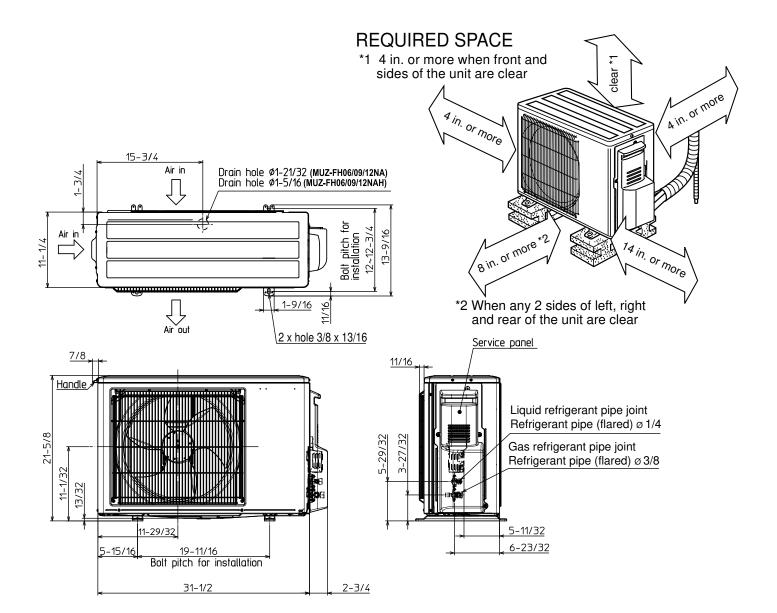


D	Insulation	Ø1-7/16 O.D
Piping	Liquid line	Ø1/4 19-11/16 (Flared connection Ø1/4)
1	Gas line	Ø3/8 16-15/16 (Flared connection Ø3/8)
Drain hose		Insulation Ø1-1/8 Connected part Ø5/8 O.D

	b	Insulation	Ø1-7/16 O.D
	Piping	Liquid line	Ø1/4 19-11/16 (Flared connection Ø1/4)
		Gas line	Ø3/8 16-15/16 (Flared connection Ø1/2)
)		Drain hose	Insulation Ø1-1/8 Connected part Ø5/8 O.D

DIMENSIONS: MUZ-FH09NA

Unit: inch





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