

# M-SERIES




## SUBMITTAL DATA: MSZ-HM12NA & MUZ-HM12NA 12,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:

Indoor Unit: MSZ-HM12NA	Outdoor Unit: MUZ-HM12NA	Wireless Remote Controller
		

### GENERAL FEATURES

- Four fan speed options: Low, Medium, High, Super-high
- Anti-mold filter
- INVERTER-driven compressors and electronic LEVs provide higher efficiency with controlled power usage
- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- Cooling operation range: 14° F to 115° F
- Heating operation range: -4° F to 75° F
- 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
- 12-hour timer
- ECONO COOL mode
- AUTO restart
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

# SPECIFICATIONS: MSZ-HM12NA & MUZ-HM12NA

Cooling <sup>1</sup>	Maximum Capacity	Btu/h	12,200
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	3,800
	Maximum Power Input	W	1,300
	Rated Power Input	W	1,210
	Moisture Removal	Pints/h	2.5
	Sensible Heat Factor		0.77
	Power Factor	%	95 / 95
Heating at 47°F <sup>2</sup>	Maximum Capacity	Btu/h	14,500
	Rated Capacity	Btu/h	12,200
	Minimum Capacity	Btu/h	4,500
	Maximum Power Input	W	1,220
	Rated Power Input	W	990
	Power Factor	%	93 / 93
Heating at 17°F <sup>3</sup>	Maximum Capacity	Btu/h	9,000
	Rated Capacity	Btu/h	7,600
	Maximum Power Input	W	990
	Rated Power Input	W	800
Heating at 5°F <sup>4</sup>	Maximum Capacity	Btu/h	7,440
	Maximum Power Input	W	820
Efficiency	SEER		18.0
	EER <sup>1</sup>		9.9
	HSPF (IV)		10.0
	COP at 47°F <sup>2</sup>		3.61
	COP at 17°F in Maximum Capacity <sup>3</sup>		2.66
	COP at 5°F in Maximum Capacity <sup>4</sup>		2.66
ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)			NO
Electrical	Voltage, Phase, Frequency		208/230V, 1 phase, 60Hz
	Guaranteed Voltage Range	V AC	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote controller	V DC	12
	Recommended Fuse/Breaker Size	A	15
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	1
	MOCP	A	15
	Blower Motor Full Load Amperage	A	0.76
	Blower Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	399-321-237-170
	Airflow Rate at Cooling, Wet	CFM	364-286-201-134

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	Airflow Rate at Heating, Dry		CFM	406-321-237-170
	Sound Pressure Level (Cooling)		dB(A)	45-37-30-22
	Sound Pressure Level (Heating)		dB(A)	43-37-30-22
	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
	Unit Dimensions	W: In. (mm)	31-7/16 (798)	
		D: In. (mm)	9-1/8 (232)	
		H: In. (mm)	11-5/8 (295)	
	Package Dimensions	W: In. (mm)	33-1/2 (850)	
		D: In. (mm)	12 (300)	
		H: In. (mm)	14 (350)	
	Unit Weight		Lbs. (kg)	22 (10)
	Package Weight		Lbs. (kg)	26 (11.5)
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)*		°F	90 DB, 73 WB / 67 DB, 57 WB
	Heating Intake Air Temp (Maximum / Minimum)		°F	80 DB / 70 DB
Outdoor Unit	MCA		A	9
	MOCP		A	15
	Fan Motor Full Load Amperage		A	0.5
	Fan Motor Output		W	55
	Airflow Rate		CFM	1,151 / 1,225
	Refrigerant Control			LEV
	Defrost Method			Reverse cycle
	Heat Exchanger Type			Plate fin coil
	Sound Pressure Level, Cooling <sup>1</sup>		dB(A)	49
	Sound Pressure Level, Heating <sup>2</sup>		dB(A)	51
	Compressor Type			DC INVERTER-driven Twin Rotary
	Compressor Model			KNB073FRVMC
	Compressor Rated Load Amps		A	6.2
	Compressor Locked Rotor Amps		A	7.7
	Compressor Oil Type // Charge		oz.	FV50S // 9.1
	External Finish Color			Munsell 3Y 7.8/1/1
	Base Pan Heater			Optional
	Unit Dimensions	W: In. (mm)	31-1/3 (800)	
		D: In. (mm)	11-1/5 (285)	
		H: In. (mm)	21-5/9 (550)	
	Package Dimensions	W: In. (mm)	37 (940)	
		D: In. (mm)	14-15/16 (380)	
		H: In. (mm)	24-13/16 (630)	
	Unit Weight		Lbs. (kg)	73 (33)
	Package Weight		Lbs. (kg)	79 (36)

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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)	°F	75 / -4
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-9 / -4
Refrigerant	Type		R410A
	Charge	Lbs, oz	1, 12
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

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

### Notes

\*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-HM12NA

Anti-Allergy Enzyme Filter	□ MAC-408FT-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller	□ PAR-33MAA <sup>1</sup>
Simple MA Controller	□ PAC-YT53CRAU <sup>1</sup>
Touch MA Controller	□ PAR-CT01MAU-SB <sup>1</sup>
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
System Control Interface	□ MAC-333IF-E <sup>2</sup>
Wireless Interface	□ PAC-USWHS002-WF-1
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and Modbus Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
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
Mini Condensate Pump—230V application	□ SI30-230
MegaBlue 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
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 Btu/h	□ X85-003
Fascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit	□ T18-016
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"x4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"x4" utility] - White	□ TAZ-MS303W
1/4" x 3/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
1/4" x 3/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
1/4" x 3/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
1/4" x 3/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-65

<sup>1</sup> Requires MAC-333IF-E

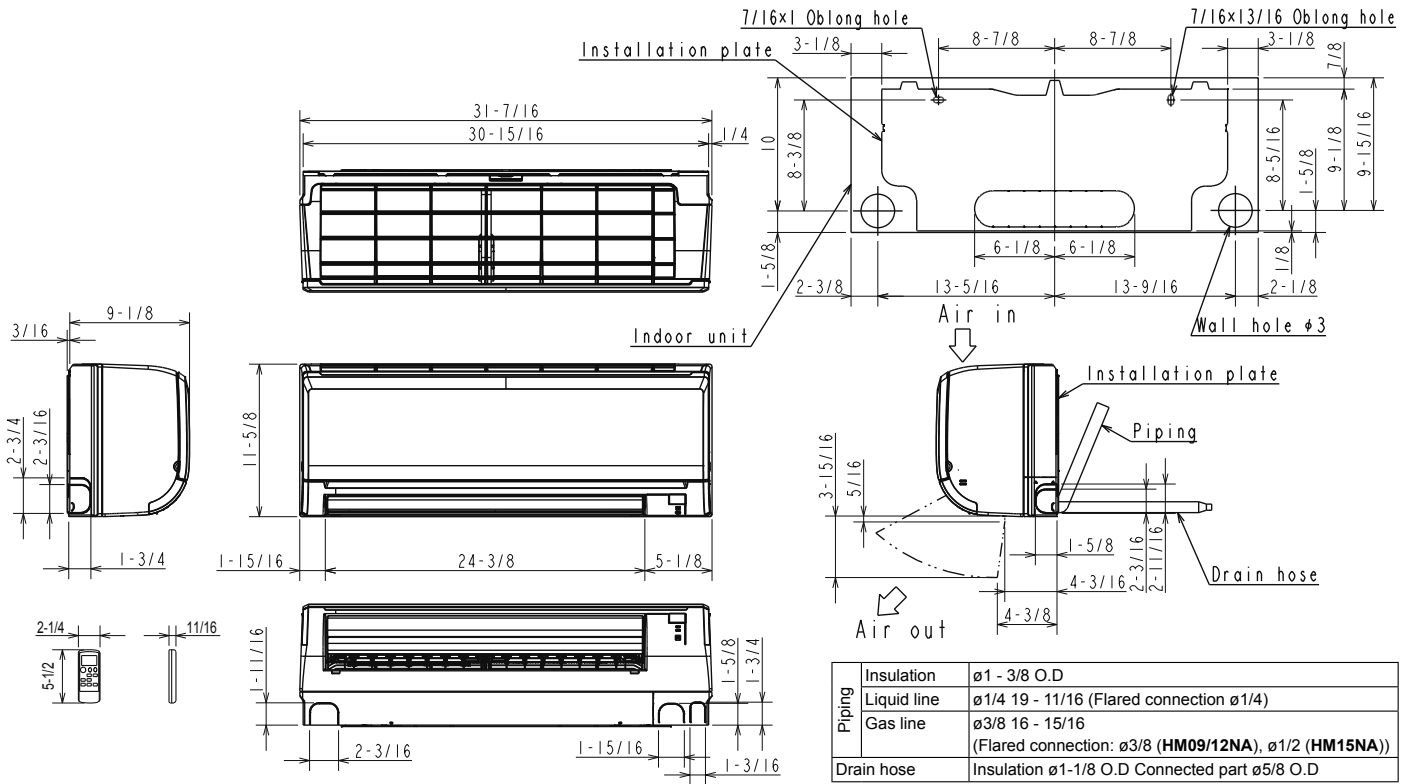
<sup>2</sup> Allows M-Series indoor units to connect to an MA controller

## ACCESSORIES: MUZ-HM12NA

Air Outlet Guide	□ MAC-881SG
Drain Socket	□ MAC-860DS
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 for Outdoor Units—Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	□ QSWBSS

# DIMENSIONS: MSZ-HM12NA

Unit: inch

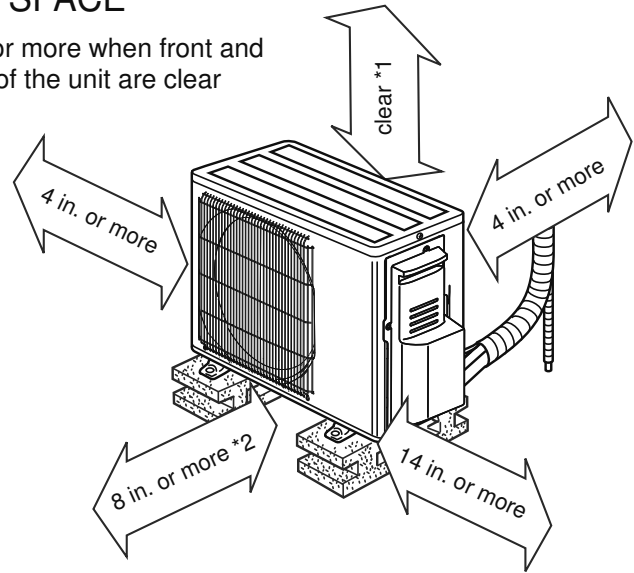


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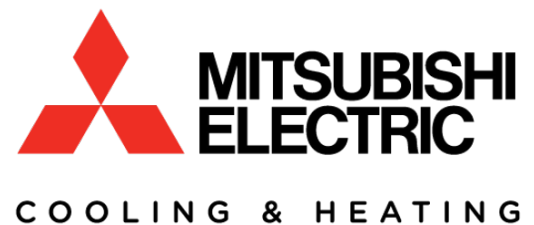
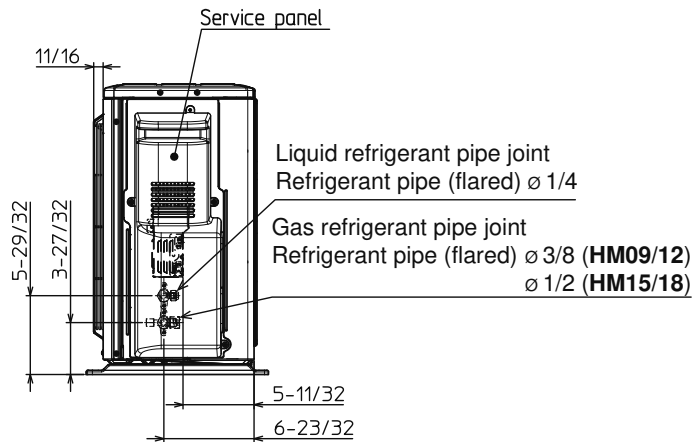
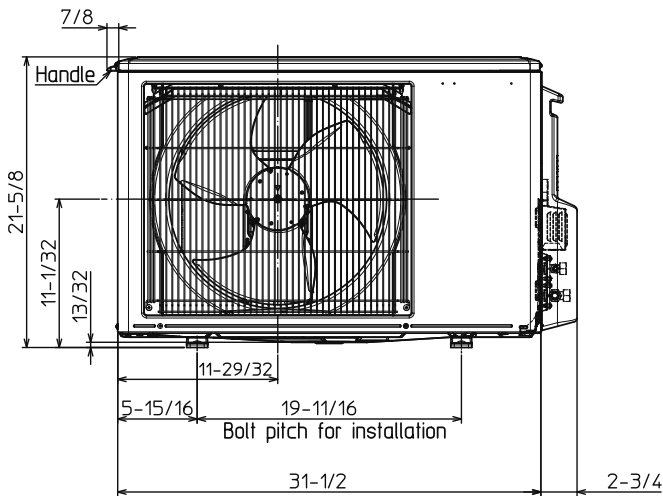
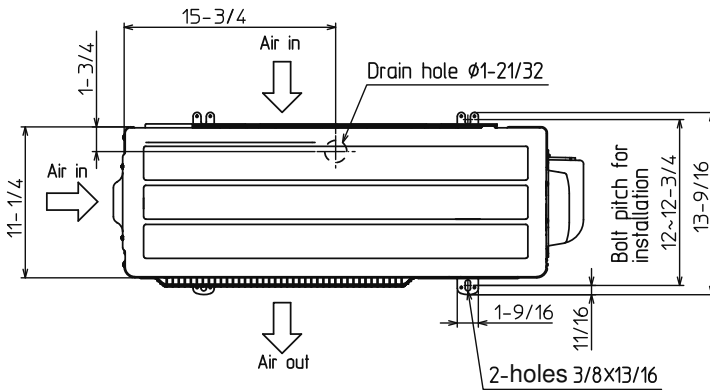
Unit: inch

## REQUIRED SPACE

\*1 4 in. 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



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FORM# MSZ-HM12NA / MUZ-HM12NA - 201808Ver2



Specifications are subject to change without notice.

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