

M-SERIES

SUBMITTAL DATA: MSZ-HM24NA & MUZ-HM24NA 24,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:

Indoor Unit: MSZ-HM24NA	Outdoor Unit: MUZ-HM24NA	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-HM24NA & MUZ-HM24NA

Cooling ¹	Maximum Capacity	Btu/h	22,500
	Rated Capacity	Btu/h	22,500
	Minimum Capacity	Btu/h	5,800
	Maximum Power Input	W	2,575
	Rated Power Input	W	2,630
	Moisture Removal	Pints/h	2.3
	Sensible Heat Factor		0.89
	Power Factor	%	99 / 99
Heating at 47°F ²	Maximum Capacity	Btu/h	26,000
	Rated Capacity	Btu/h	26,000
	Minimum Capacity	Btu/h	5,400
	Maximum Power Input	W	2,445
	Rated Power Input	W	2,500
	Power Factor	%	99 / 99
Heating at 17°F ³	Maximum Capacity	Btu/h	18,500
	Rated Capacity	Btu/h	18,500
	Maximum Power Input	W	2,245
	Rated Power Input	W	2,300
Heating at 5°F ⁴	Maximum Capacity	Btu/h	15,600
	Maximum Power Input	W	2090
Heating at -4°F ⁵	Maximum Capacity	Btu/h	N/A
Heating at -13°F ⁶	Maximum Capacity	Btu/h	-
Efficiency	SEER		18.0
	EER ¹		8.6
	HSPF (IV)		10.0
	COP at 47°F ²		3.05
	COP at 17°F in Maximum Capacity ³		2.42
	COP at 5°F in Maximum Capacity ⁴		2.19
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	0.67
	Blower Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	702-530-431-353
	Airflow Rate at Cooling, Wet	CFM	632-477-388-318

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	Airflow Rate at Heating, Dry		CFM	702-579-448-346
	Sound Pressure Level (Cooling)		dB(A)	50-44-38-33
	Sound Pressure Level (Heating)		dB(A)	50-44-38-32
	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)	36-5/16 (923)	
		D: In. (mm)	12 (250)	
		H: In. (mm)	9-13/16 (305)	
	Package Dimensions	W: In. (mm)	39 (990)	
		D: In. (mm)	13 (330)	
		H: In. (mm)	15 (380)	
	Unit Weight		Lbs. (kg)	28 (13)
	Package Weight		Lbs. (kg)	33 (15)
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	14
	MOCP		A	15
	Fan Motor Full Load Amperage		A	0.93
	Fan Motor Output		W	77
	Airflow Rate		CFM	1,691 / 1,691
	Refrigerant Control			LEV
	Defrost Method			Reverse cycle
	Heat Exchanger Type			Plate fin coil
	Sound Pressure Level, Cooling ¹		dB(A)	54
	Sound Pressure Level, Heating ²		dB(A)	55
	Compressor Type			DC INVERTER-driven Twin Rotary
	Compressor Model			SNB130FQBMT
	Compressor Rated Load Amps		A	10
	Compressor Locked Rotor Amps		A	12.5
	Compressor Oil Type // Charge		oz.	FV50S // 11.8
	External Finish Color			Munsell 3Y 7.8/1/1
	Base Pan Heater			Optional
	Unit Dimensions	W: In. (mm)	33-1/16 (840)	
		D: In. (mm)	13 (330)	
		H: In. (mm)	34-5/8 [880]	
	Package Dimensions	W: In. (mm)	38-9/16 (980)	
		D: In. (mm)	16-9/16 (420)	
		H: In. (mm)	39 (990)	
	Unit Weight		Lbs. (kg)	121 (55)
	Package Weight		Lbs. (kg)	141 (64)

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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	3, 9
Piping	Gas Pipe Size O.D. (Flared)	In. (mm)	5/8 (15.88)
	Liquid Pipe Size O.D. (Flared)	In. (mm)	3/8 (9.52)
	Maximum Piping Length	Ft. (m)	100 (30)
	Maximum Height Difference	Ft. (m)	50 (15)
	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

*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-HM24NA

Anti-Allergy Enzyme Filter	□ MAC-408FT-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller ¹	□ PAR-33MAA
Simple MA Controller ¹	□ PAC-YT53CRAU
Touch MA Controller ¹	□ PAR-CT01MAU-SB
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 ²	□ MAC-333IF-E
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
i-see Sensor™	□ PAC-SH91MK-E
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
3/8" x 5/8" x 10' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
3/8" x 5/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
3/8" x 5/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
3/8" x 5/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
3/8" x 5/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
3/8" x 5/8" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100

¹ Requires MAC-333IF-E

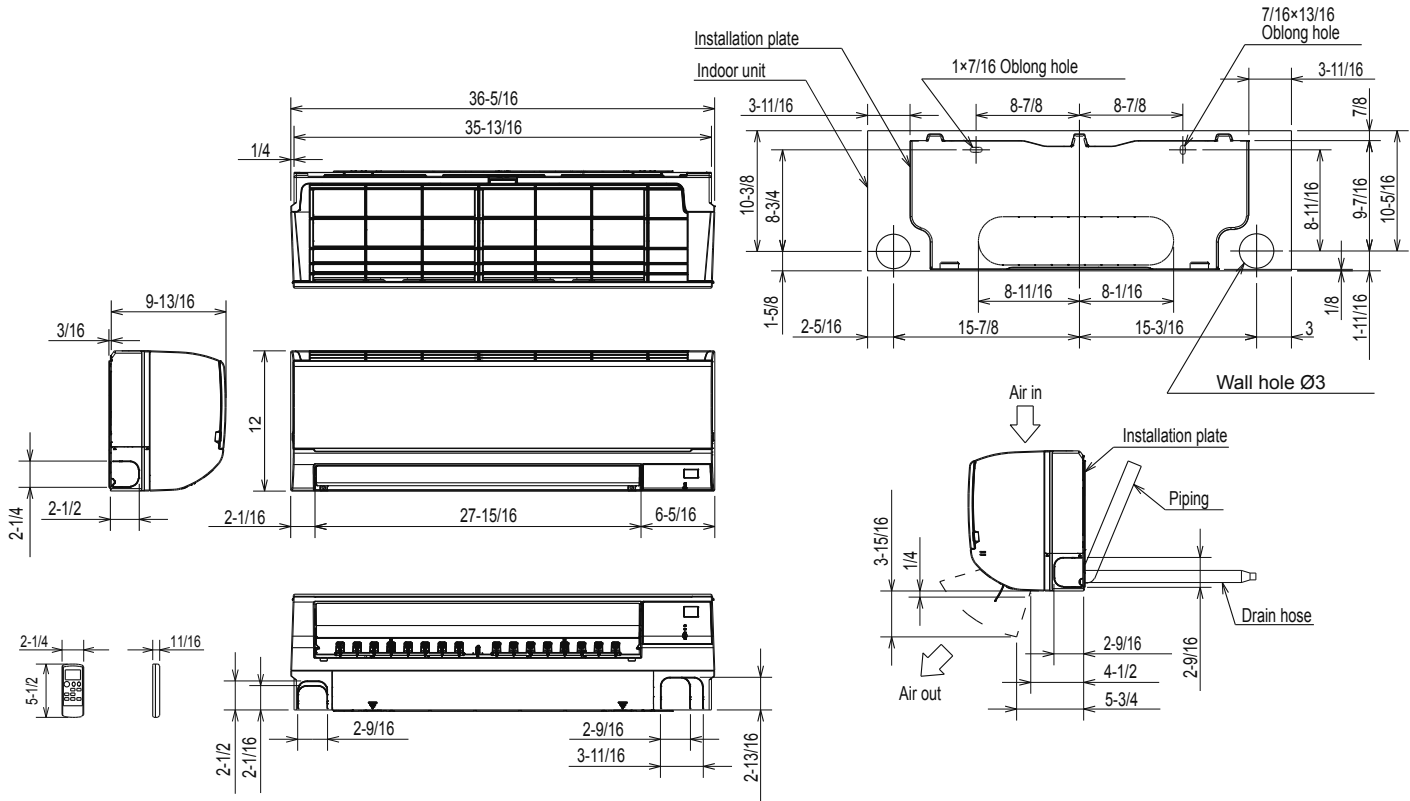
² Allows M-Series indoor units to connect to an MA controller

ACCESSORIES: MUZ-HM24NA

Air Outlet Guide	□ MAC-886SG-E
Drain Socket	□ MAC-860DS
Defrost Heater	□ MAC-642BH-U1
Hail Guard	□ HG-A7
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-HM24NA

Unit: inch



18 KBtu/h

Piping	Insulation	Ø2 O.D
	Liquid line	Ø5/16 15-3/8 (Flared connection Ø1/4)
	Gas line	Ø15/32 13-3/8 (Flared connection Ø1/2)
	Drain hose	Insulation Ø1-1/8 Connected part Ø5/8 O.D

24 KBtu/h

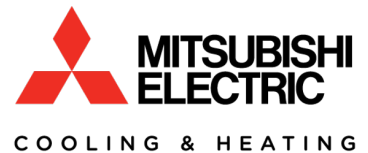
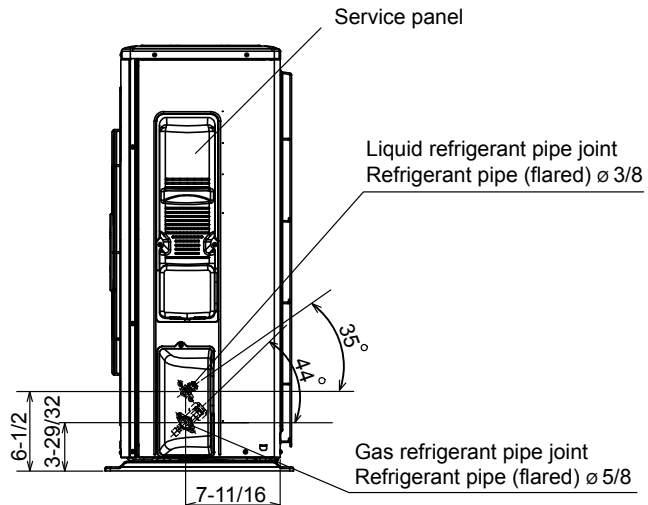
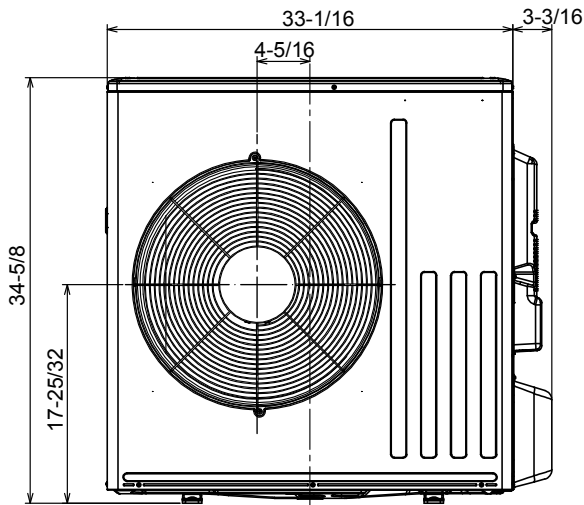
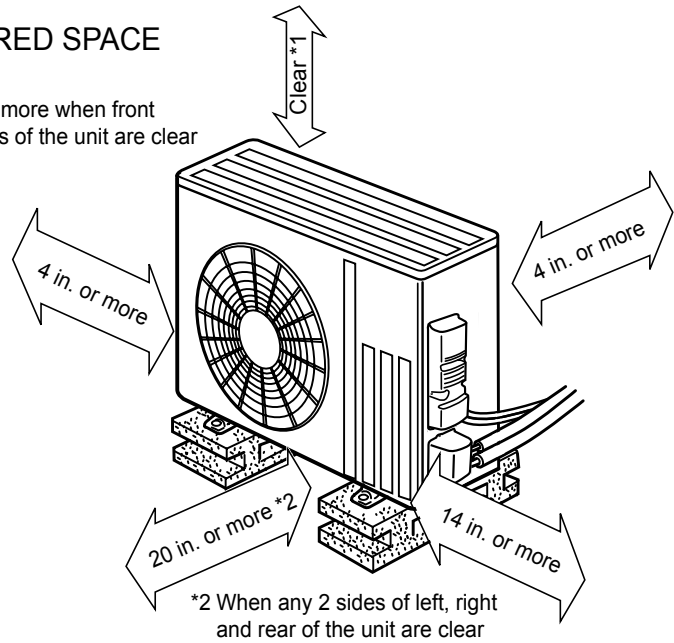
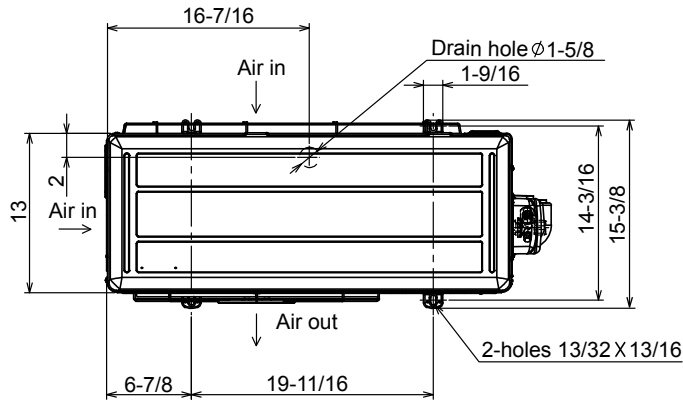
Piping	Insulation	Ø2 O.D
	Liquid line	Ø5/16 15-3/8 (Flared connection Ø3/8)
	Gas line	Ø15/32 13-3/8 (Flared connection Ø5/8)
	Drain hose	Insulation Ø1-1/8 Connected part Ø5/8 O.D

DIMENSIONS: MUZ-HM24NA

Unit: inch

REQUIRED SPACE

*1 20 in. or more when front and sides of the unit are clear



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FORM# MSZ-HM24NA / MUZ-HM24NA - 201811

Specifications are subject to change without notice.

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