

M-SERIES

SUBMITTAL DATA: MSZ-GL09NA & MUZ-GL09NA 9,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:

Indoor Unit:
MSZ-GL09NA

Outdoor Unit:
☐ MUZ-GL09NA-U1
☐ MUZ-GL09NA-U2
☐ MUZ-GL09NA-U8

Wireless Remote Controller



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
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- 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
- Quiet operation
- Smart Set: recalls a preferred preset temperature setting at the touch of a button
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

SPECIFICATIONS: MSZ-GL09NA & MUZ-GL09NA

Cooling ¹	Maximum Capacity		BTU/H	12,200
	Rated Capacity		BTU/H	9,000
	Minimum Capacity		BTU/H	3,600
	Maximum Power Input		W	1,050
	Rated Power Input		W	585
	Moisture Removal		Pints/h	1.5
	Sensible Heat Factor			0.82
	Power Factor		%	-U1/2: 86 / 86 -U8: 92 / 92
Heating at 47°F ²	Maximum Capacity		BTU/H	-U1/2: 15,900 -U8: 14,100
	Rated Capacity		BTU/H	10,900
	Minimum Capacity		BTU/H	4,500
	Maximum Power Input		W	-U1/2: 1,250 -U8: 1,070
	Rated Power Input		W	720
	Power Factor		%	-U1/2: 90 / 90 -U8: 95 / 95
Heating at 17°F ³	Maximum Capacity		BTU/H	-U1/2: 10,900 -U8: 9,400
	Rated Capacity		BTU/H	-U1/2: 6,700 -U8: 7,000
	Maximum Power Input		W	-U1/2: 1,060 -U8: 790
	Rated Power Input		W	630
Heating at 5°F ⁴	Maximum Capacity		BTU/H	8,170
	Maximum Power Input		W	850
Heating at -4°F ⁵	Maximum Capacity		BTU/H	6,860
Efficiency	SEER SEER2			24.6 24.3
	EER ¹ EER2 ¹			15.4 15.4
	HSPF (IV) HSPF2 (IV)			12.8 10.9
	COP at 47°F ²			4.44
	COP at 17°F in Maximum Capacity ³			2.82
	COP at 5°F in Maximum Capacity ⁴			2.82
	ENERGY STAR® certified units (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)			YES
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
	Short-circuit Current Rating (SCCR)		kA	5
	Recommended Fuse/Breaker Size (Outdoor)		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	399-321-237-170-145
	Airflow Rate at Cooling, Wet		CFM	364-286-201-134-109
	Airflow Rate at Heating, Dry		CFM	406-321-237-170-145
	Sound Pressure Level (Cooling)		dB(A)	43-37-30-22-19
	Sound Pressure Level (Heating)		dB(A)	43-37-30-22-19
	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)

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	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	1,229 / 1,172
	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)	50
	Compressor Type		DC INVERTER-driven
	Compressor Model		-U1: KNB073FRVMC -U2: KNB073FRXMC -U8: SNB092FQANT
	Compressor Rated Load Amps	A	6.7
	Compressor Locked Rotor Amps	A	7.7
	Compressor Oil Type // Charge	oz.	-U1/2: FV50S //9.1 -U8: FY50S //11.8
	External Finish Color		Munsell 3Y 7.8/1/1
	Base Pan Heater		Optional
	Unit Dimensions	W: In. (mm)	31-1/2 (800)
		D: In. (mm)	11-1/4 (285)
		H: In. (mm)	21-5/8 (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)	81 (37)
	Package Weight	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)	°F	75 / -4
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-9 / -4
Refrigerant	Type		R410A
	Charge	Lbs, oz	-U1/2: 2, 5 -U8: 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 // 5 DB, 4 WB
	⁵ Heating at -4°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-GL09NA

Anti-allergy Enzyme Filter	□ MAC-408FT-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller ¹	□ PAR-40MAAU
Simple MA Controller ¹	□ PAC-YT53CRAU-J
Touch MA Controller ¹	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ M21EAA307
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
System Control Interface ²	□ MAC-334IF-E
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
Thermostat Interface	□ PAC-US445CN-1
kumo station® for kumo cloud®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
Lockdown 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
Mini Condensate Pump — 230 volt 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
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [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
Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	□ COMBI
Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	□ GOBI-II
Drain Pan Level Sensor	□ SS610E
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W
Flexible Mini-Split Drain Hose	□ DRX-16

¹ Requires MAC-334IF-E

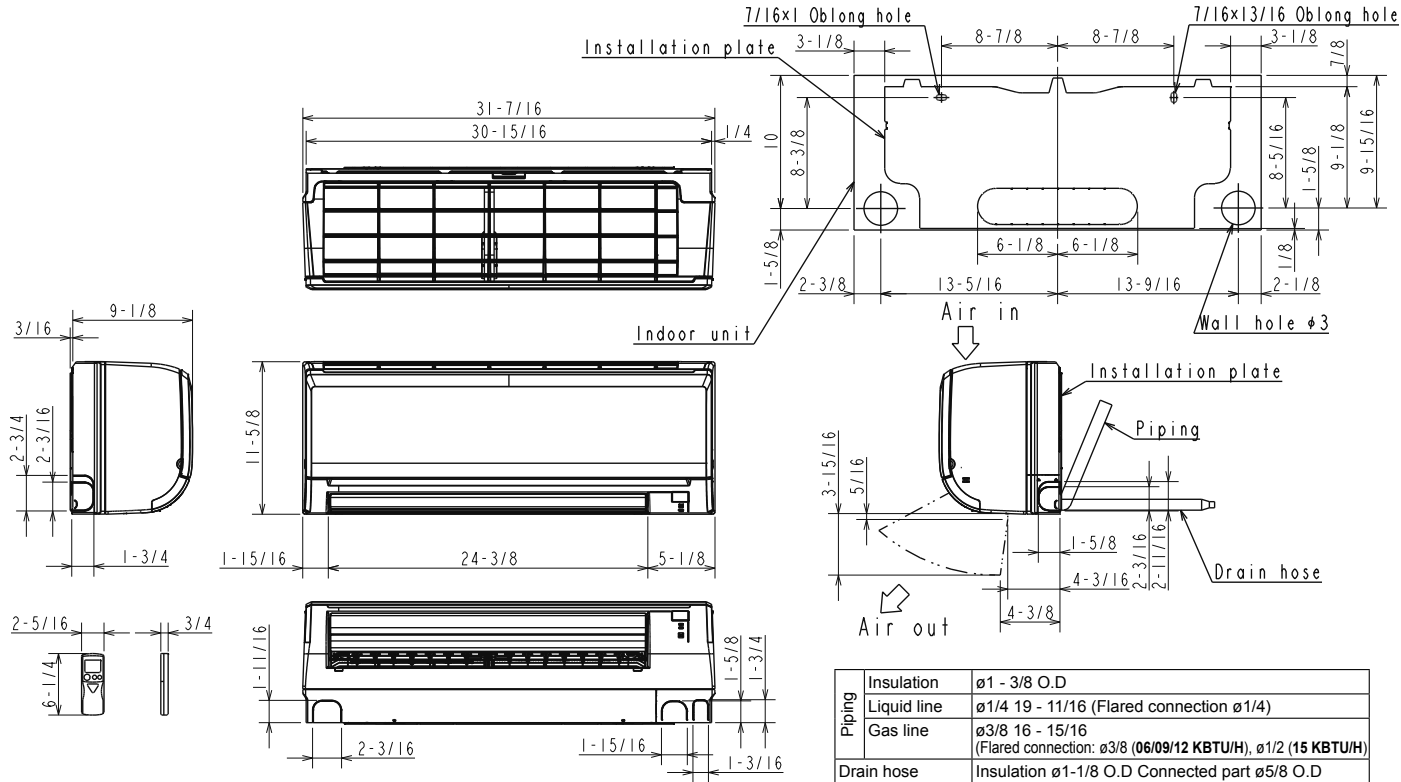
² Allows indoor units to connect to an MA Controller

ACCESSORIES: MUZ-GL09NA

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	□ QSWBSS
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-GL09NA

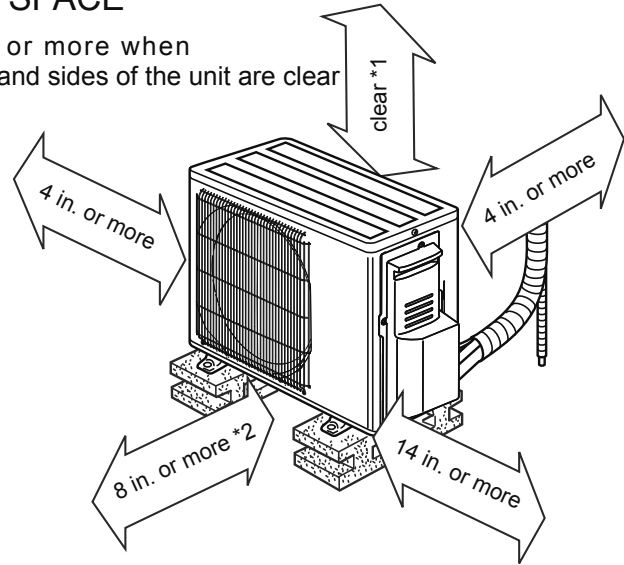
Unit: inch



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

