

MSZ-GS18NA & MXZ-2C20NA4
18,000 BTU/H WALL-MOUNTED INDOOR UNIT
1.66-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



Indoor Unit.....MSZ-GS18NA

Outdoor Unit.....MXZ-2C20NA4



INDOOR UNIT FEATURES

- Slim wall-mounted indoor units provide zone comfort control
- Dual Barrier Coating applied to the heat exchanger, vanes and fan to prevent hydrophilic and hydrophobic dirt build-up
- Optional Microparticle Filter designed to capture PM2.5
- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- Quiet operation
- Smart Set: recalls a preferred preset temperature setting at the touch of a button
- Built-in backup/auxiliary heater control available
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- Multiple control options available:
 - Back-lit screen handheld remote controller (provided with the unit)
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- M-NET connection through the outdoor unit
- Quiet outdoor unit operation as low as 50 dB(A)
- Intelligent Power Module (IPM) for reduced power loss
- Selectable thermal lockout/restart function
- Optional base pan heater
- High-pressure switch for additional protection
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life
- Rated for 2,000 hours spraying time per ASTM B117 Standard

SPECIFICATIONS: MSZ-GS18NA & MXZ-2C20NA4

Cooling at 95°F ¹	Maximum Capacity	BTU/H	16,200
	Rated Capacity	BTU/H	16,200
	Maximum Power Input	W	1,379
	Rated Power Input	W	1,379
	Power Factor [208V / 230V]	%	97.0 / 97.0
Heating at 47°F ²	Maximum Capacity	BTU/H	24,000
	Rated Capacity	BTU/H	21,000
	Maximum Power Input	W	2,158
	Rated Power Input	W	1,843
	Power Factor [208V / 230V]	%	97.0 / 97.0
Heating at 17°F ³	Maximum Capacity	BTU/H	15,000
	Rated Capacity	BTU/H	10,600
	Maximum Power Input	W	1,917
	Rated Power Input	W	1,363
Heating at 5°F ⁴	Maximum Capacity	BTU/H	12,600
	Maximum Power Input	W	1,811
Efficiency	SEER2		16.25
	EER2 ¹		11.75
	HSPF2 [I/V]		8.30
	COP at 47°F ²		3.34
	COP at 17°F at Maximum Capacity ³		2.28
	COP at 5°F at Maximum Capacity ⁴		2.04
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency		208/230, 1, 60
	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	20
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
Indoor Unit	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.74
	Fan Motor Output	W	40
	Airflow Rate at Cooling, Dry	CFM	250–325–407–511–629
	Airflow Rate at Cooling, Wet	CFM	225–292–367–460–566
	Airflow Rate at Heating, Dry	CFM	287–375–459–550–629
	Sound Pressure Level [Cooling]	dB[A]	28–33–38–44–49
	Sound Pressure Level [Heating]	dB[A]	28–34–39–43–48
	Drain Pipe Size	In. [mm]	5/8 [15.88]
	Coating on Heat Exchanger		Dual Barrier Coating
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W x D x H: In. [mm]	36-5/16 x 9-13/16 x 12 [923 x 250 x 305]
	Package Dimensions	W x D x H: In. [mm]	39 x 13 x 15 [990 x 330 x 380]
Indoor Unit Operating Temperature Range	Unit Weight	Lbs. [kg]	28 [12.4]
	Package Weight	Lbs. [kg]	32 [14.2]
	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

NOTES:
 AHRI Rated Conditions
 (Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
³Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
⁴Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

Conditions

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
 • Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
 • System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

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Outdoor Unit	MCA	A	17.2
	MOCP	A	20
	Fan Motor Full Load Amperage	A	1.77
	Refrigerant Control		Linear expansion valve
	Defrost Method		Reverse Cycle
	Heat Exchanger Type // Coating		Plate Fin Coil / Blue Fin Coating
	Sound Pressure Level, Cooling ¹	dB(A)	50
	Sound Pressure Level, Heating ²	dB(A)	54
	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Model		SNB140FQUH2T
	Compressor Rated Load Amps	A	10.7
	Compressor Locked Rotor Amps	A	15.5
	Compressor Oil Type // Charge		NEO22 // 20.3
	Base Pan Heater		Optional
	Unit Dimensions	W x D x H: In. [mm]	33-1/16 x 13 x 27-15/16 [840 x 330 x 710]
	Package Dimensions	W x D x H: In. [mm]	40-3/4 x 18-1/2 x 35-1/8 [1,006 x 466 x 892]
	Unit Weight	Lbs. [kg]	126 [57]
	Package Weight	Lbs. [kg]	150 [68]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*A	°F	115 DB / 14 DB
	Cooling Thermal Lock-out / Re-start Temperatures**	°F	10.4 DB / 14 DB
	Heating Air Temp [Maximum / Minimum]	°F	65 WB / 5 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-4 WB / 5 WB
Refrigerant	Type		R410A
	Pre-Charged Refrigerant Amount	Lbs, oz	5.0, 15.0
	Maximum Pre-Charged Piping Length	Ft. [m]	131.0 [40.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.216 [20]
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]
	Total Piping Length	Ft. [m]	82 [25]
	Maximum Height Difference, ODU above IDU	Ft. [m]	33 [10]
	Maximum Height Difference, ODU below IDU	Ft. [m]	49 [15]
	Farthest Piping Length from ODU to IDU	Ft. [m]	82 [25]
	Maximum Number of Bends		50

NOTES:

AHRI Rated Conditions	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
(Rated data is determined at a fixed compressor speed)	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

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

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

*A 5°F DB - 115°F DB when optional wind baffles are installed

For actual capacity performance based on indoor unit type and number of indoor units connected, please refer to MXZ Operational Performance.

Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

Low, mid and high external static pressure tests conducted at 0.1, 0.3 and 0.5 in.w.g. respectively, according to AHRI 210/240. The external static pressures utilized have no bearing on the capabilities of the indoor unit; please refer to the indoor unit manual to select the correct external static pressure setting for the application.

INDOOR UNIT ACCESSORIES: MSZ-GS18NA

Control Interface	Backup Heat Relay Kit Adapter for CN24 or CN152 on ducted models	☐ CN24RELAY-KIT-CM3
	IT Extender for kumo station™	☐ PAC-WHS01IE-E
	kumo station™ for kumo cloud®	☐ PAC-WHS01HC-E
	M-Net & I/O Control Interface for M-Series	☐ MAC-334IF-E
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	USNAP Adapter for Demand Response	☐ PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	☐ PAC-USWHS002-WF-2
Remote Sensor	Wireless temperature and humidity sensor for kumo cloud®	☐ PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe MA Wired Remote Controller†	☐ PAR-42MAAUB
	Simple Ductless Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Touch MA Wired Remote Controller	☐ PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller & Receiver kit	☐ MHK2
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	☐ X87-721
	Blue Diamond (MicroBlue Advanced) Condensate Pump w/ Reservoir & Sensor)	☐ X86-003
	Blue Diamond Alarm Extension Cable — 6.5 Ft.	☐ C13-192
	Blue Diamond MultiTank — collection tank for use with multiple pumps	☐ C21-014
	Blue Diamond Sensor Extension Cable — 15 Ft.	☐ C13-103
	Drain Pan Level Sensor/Control	☐ SS610E
	Blue Diamond (Slim Fascia Kit) Condensate Pump w/ Reservoir & Sensor)	☐ X86-011
	Sauermann Condensate Pump	☐ SI30-230
	Refco condensate Pump (100-240VAC) up to 120,000 BTU/H	☐ GOBI-II
	Refco Condensate Pump (100-240VAC) up to 120,000 BTU/H	☐ COMBI
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	☐ TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐ TAZ-MS303W
Filter	Micro-particle Filter	☐ MAC-EMF515FT-E
Lineset	15' x 1/4" x 15' x 1/2" Lineset (Twin-Tube Insulation)	☐ MLS141212T-15
	30' x 1/4" x 30' x 1/2" Lineset (Twin-Tube Insulation)	☐ MLS141212T-30
	50' x 1/4" x 50' x 1/2" Lineset (Twin-Tube Insulation)	☐ MLS141212T-50
	65' x 1/4" x 65' x 1/2" Lineset (Twin-Tube Insulation)	☐ MLS141212T-65

NOTES:

†Requires MAC-334IF-E

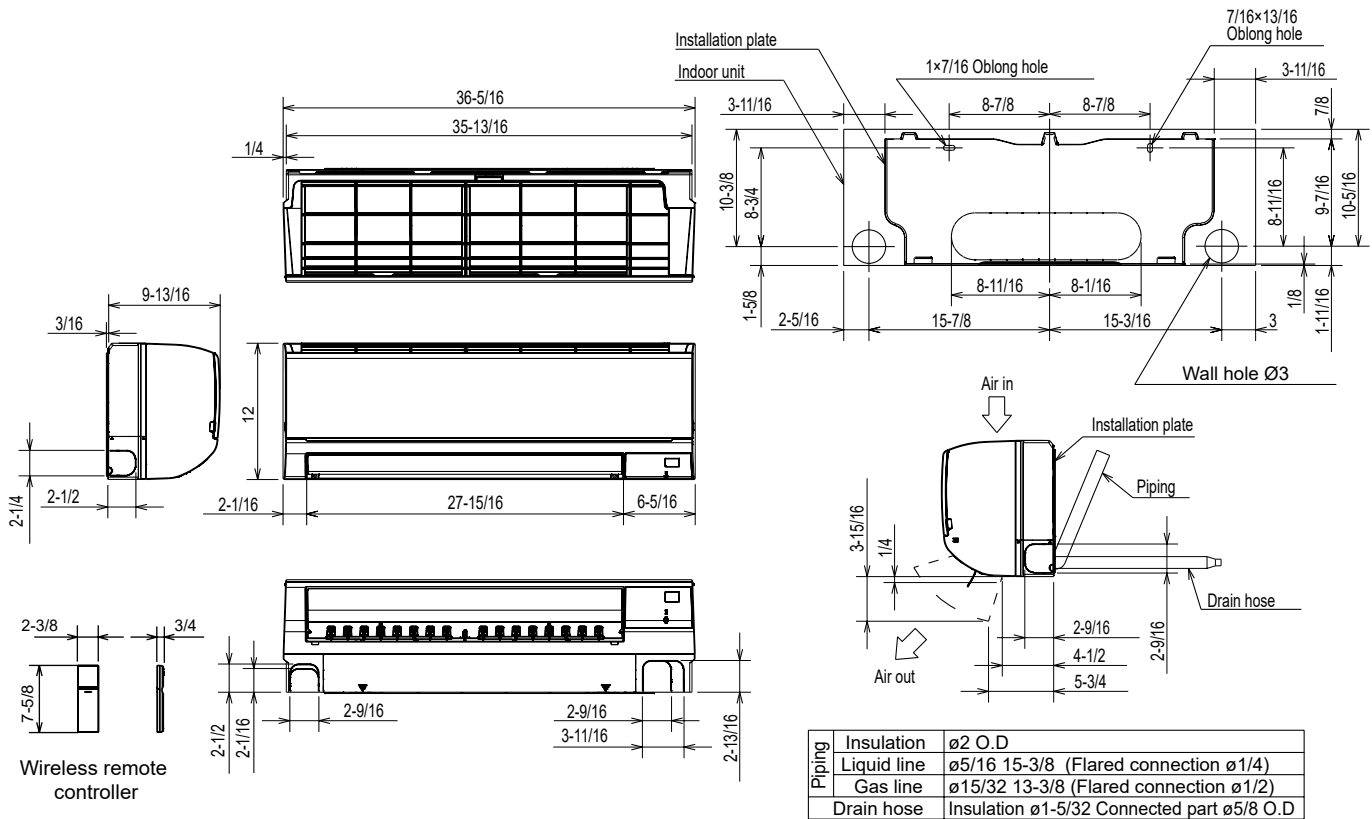
- M-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount
Allows indoor units to connect to an MA Controller:
Deluxe MA Remote Controller
Simple MA Controller
Touch MA Controller

OUTDOOR UNIT ACCESSORIES: MXZ-2C20NA4

Air Outlet Guide	Air Outlet Guide	☐ MAC-856SG
Ball Valve	Refrigeration Ball Valve - 1/2"	☐ BV12FFSI2
	Refrigeration Ball Valve - 1/4"	BV14FFSI2
	Refrigeration Ball Valve - 3/8"	BV38FFSI2
	Refrigeration Ball Valve - 5/8"	BV58FFSI2
Control Wire	M-Net Control Wire, 1,000' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-1000
	M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)	CW162S-250
Drain Socket	Drain Socket	MAC-811DS
Hail Guards	Hail Guard	HG-A8
M-NET Converter	M-NET Converter	PAC-IF01MNT-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW164-50
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	ULTRILITE1
	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	DSD-400P
Optional Defrost Heater	Base Heater	PAC-646BH-E
Port Adaptor	Adaptor: 1/2" x 3/8"	MAC-A455JP-E
	Adaptor: 1/2" x 5/8"	MAC-A456JP-E
	Adaptor: 3/8" x 1/2"	MAC-A454JP-E
	Adaptor: 3/8" x 5/8"	PAC-SG76RJ-E
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M
	Snow/Rain Diverter	SRD-3

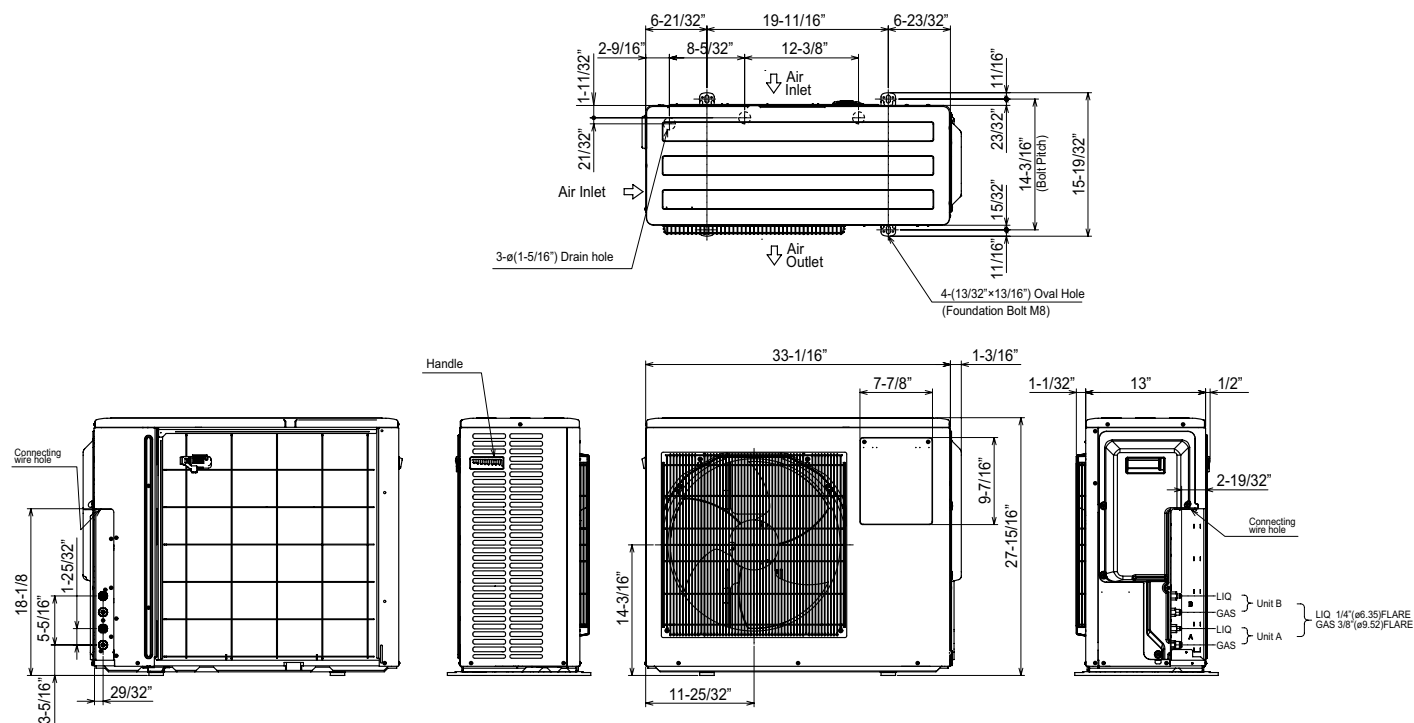
INDOOR UNIT DIMENSIONS: MSZ-GS18NA

Unit: inch

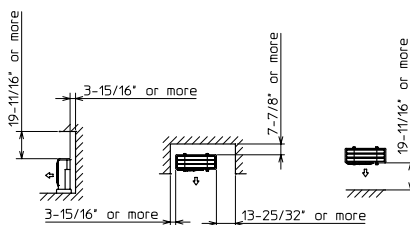


OUTDOOR UNIT DIMENSIONS: MXZ-2C20NA4

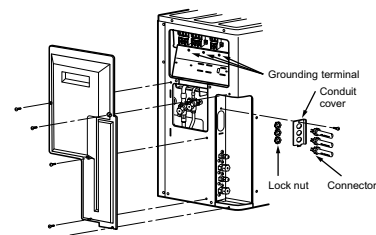
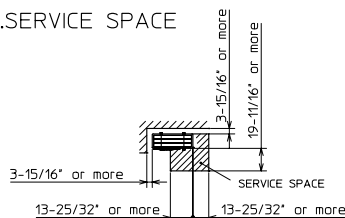
Unit: inch (mm)



1.FREE SPACE



2.SERVICE SPACE



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FORM# MSZ-GS18NA & MXZ-2C20NA4 - 202501

