### MXZ-3C24NA3 2-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



Job Name:

System Reference:

Date:



### FEATURES

- Variable speed INVERTER-driven compressor
- Optional base pan heater
- Q uiet outdoor unit operation as low as 51 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection
- ENERGY STAR® certified (non-ducted)

ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

## SPECIFICATIONS: MXZ-3C24NA3

|  | Maximum Capacity   | BTU/H                        | 22,000 // 22,000 // 22,000             |  |
|--|--|------------------------------|--|--|
|  | Rated Capacity   | BTU/H                        | 22,000 // 22,800 // 23,600             |  |
| cooling <sup>1</sup> (Non-Ducted // Mix // Ducted) | Minimum Capacity   | BTU/H                        | 11,600 // 11,300 // 11,000             |  |
|  | Maximum Power Input  | W                            | 1,620 // 1,620 // 1,620                |  |
|  | Rated Power Input  | W                            | 1,620 // 1,860 // 2,100                |  |
|  | Power Factor (208V, 230V)  | %                            | 99.0, 99.0 // 99.0, 99.0 // 99.0, 99.0 |  |
|  | Maximum Capacity   | BTU/H                        | 30,600 // 30,600 // 30,600             |  |
|  | Rated Capacity   | BTU/H                        | 25,000 // 24,800 // 24,600             |  |
| eating at 47°F <sup>2</sup> (Non-Ducted // Mix //  | Minimum Capacity   | BTU/H                        | 18,100 // 17,700 // 17,300             |  |
| ucted)   | Maximum Power Input  | W                            | 3,000 // 3,000 // 3,000                |  |
|  | Rated Power Input  | W                            | 1,750 // 1,825 // 1,900                |  |
|  | Power Factor (208V, 230V)  | %                            | 98.9, 98.9 // 98.7, 98.7 // 98.5, 98.5 |  |
|  | Maximum Capacity   | BTU/H                        | 19,600 // 19,600 // 19,600             |  |
| eating at 17°F3 (Non-Ducted // Mix //              | Rated Capacity   | BTU/H                        | 14,600 // 14,600 // 14,600             |  |
| ucted)   | Maximum Power Input  | W                            | 2,580 // 2,510 // 2,440                |  |
|  | Rated Power Input  | W                            | 1,420 // 1,490 // 1,560                |  |
| ating at 5°F <sup>4</sup> (Non-Ducted // Mix //    | Maximum Capacity   | BTU/H                        | 18,200 // 18,200 // 18,200             |  |
| icted)   | Maximum Power Input  | W                            | 2,310 // 2,200 // 2,090                |  |
|  | SEER   |                              | 20.0 // 18.0 // 16.0                   |  |
|  | EER <sup>1</sup>   |                              | 13.58 // 12.41 // 11.24                |  |
|  | HSPF (IV)  |                              | 10.0 // 9.5 // 9.2                     |  |
| ficiency (Non-Ducted // Mix // Ducted)             |  |                              | 4.19 // 3.99 // 3.8                    |  |
| - ·  | COP at 17°F at Maximum Capacity <sup>3</sup>   |                              | 2.23 // 2.29 // 2.36                   |  |
|  | COP at 5°F at Maximum Capacity <sup>4</sup>  |                              | 2.31 // 2.42 // 2.55                   |  |
|  | ENERGY STAR® Certified   |                              | Yes // No // No                        |  |
|  | Electrical Power Requirements  | Voltage, Phase,<br>Frequency | 208/230, 1, 60                         |  |
|  | Guaranteed Voltage Range   | VAC                          | 187-253                                |  |
|  | Voltage: Indoor - Outdoor, S1-S2   | VAC                          | 208/230                                |  |
|  | Voltage: Indoor - Outdoor, S2-S3   | V DC                         | 24                                     |  |
| ectrical   | Short-circuit Current Rating (SCCR)  | kA                           | 5                                      |  |
| ecuica   | Recommended Fuse/Breaker Size  | A                            | 25                                     |  |
|  | Recommended Wire Size  | AWG                          | 14                                     |  |
|  |  | AWG                          | 22.1                                   |  |
|  | Minimum Circuit Ampacity   |                              |  |  |
|  | Maximum Overcurrent Protection   | A                            | 25                                     |  |
|  | Fan Motor Full Load Amperage   | A                            | 2.43                                   |  |
|  | Airflow Rate (Cooling / Heating)   | CFM                          | 2,287 / 2,382                          |  |
|  | Refrigerant Control  |                              | LEV                                    |  |
|  | Defrost Method   |                              | Reverse Cycle                          |  |
|  | Heat Exchanger Type  |                              | Plate fin coil                         |  |
|  | Sound Pressure Level, Cooling <sup>1</sup>   | dB(A)                        | 51                                     |  |
|  | Sound Pressure Level, Heating <sup>2</sup>   | dB(A)                        | 55<br>DC INVERTER-driven Twin Rotary   |  |
|  |  | Compressor Type              |  |  |
|  | Compressor Model   |                              | SNB220FQGMC                            |  |
|  | Compressor Rated Load Amps   | A                            | 12                                     |  |
| utdoor unit  | Compressor Locked Rotor Amps   | A                            | 13.7                                   |  |
|  | Compressor Oil Type // Charge  | OZ.                          | FV50S // 23.7                          |  |
|  | Base Pan Heater  |                              | Optional                               |  |
|  |  | W: In. [mm]                  | 37-13/32 [950]                         |  |
|  | Unit Dimensions  | D: In. [mm]                  | 13 [330]                               |  |
|  |  | H: In. [mm]                  | 31-11/32 [796]                         |  |
|  |  | W: In. [mm]                  | 40-15/16 [1,040]                       |  |
|  | Package Dimensions   | D: In. [mm]                  | 17-11/16 [450]                         |  |
|  |  | H: In. [mm]                  | 40-11/16 [1,033]                       |  |
|  | Unit Weight  | Lbs.[kg]                     | 137 [62]                               |  |
|  | Package Weight   | Lbs.[kg]                     | 157 [71]                               |  |
|  | Cooling Intake Air Temp (Maximum / Minimum <sup>*</sup> A)                                       | °FDB                         | 115 / 14                               |  |
| Itdoor unit operating temperature                  | Cooling Thermal Lock-out / Re-start Temperatures   | °FDB                         | 10.4 / 14                              |  |
| Outdoor unit operating temperature<br>range        | Heating Intake Air Temp (Maximum / Minimum)  | °FWB                         | 65 / 5                                 |  |
|  |  |                              |  |  |
| nge  | Heating Thermal Lock-out / Re-start Temperatures   | °FDB                         | 1.4 / 5                                |  |
|  |  | Lbs, oz                      | 6.0, 13.0                              |  |
|  | Charge   |                              | 00 0 100 00                            |  |
| efrigerant   | Charge<br>Chargeless Piping Length<br>Additional Refrigerant Charge Per Additional Piping Length | Ft. [m]<br>oz./Ft. [g/m]     | 98.0 [30.0]<br>0.216 [20]              |  |

<sup>4</sup>Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

\*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.

Conditions

# **SPECIFICATIONS: MXZ-3C24NA3**

|   | Maximum Nur          | Maximum Number of Connected IDU  |                | 3  |  |
|---|----------------------|--|----------------|--|--|
| Indoor unit connection  | Minimum Num          | ber of Connected IDU   |                |  | 2                                      |
|   | Minimum conr         | ected capacity   |                | BTU/H  | 12,000                                 |
|   | Maximum con          | nected capacity  |                | BTU/H  | 27,000                                 |
| Piping  | Liquid Pipe Si       | ze O.D. (Flared)   |                | In.[mm]  | A,B,C: 1/4 [A,B,C: 6.35]               |
|   | Gas Pipe Size        | O.D. (Flared)  |                | In.[mm]  | A: 1/2; B,C: 3/8 [A: 12.72; B,C: 9.52] |
|   | Total Piping Le      | ngth   |                | Ft. [m]  | 230 [70]                               |
|   | Maximum Hei          | ght Difference, ODU above IDU  |                | Ft. [m]  | 49 [15]                                |
|   | Maximum Hei          | ght Difference, ODU below IDU  |                | Ft. [m]  | 49 [15]                                |
|   | Farthest Pipin       | g Length from ODU to IDU   |                | Ft. [m]  | 82 [25]                                |
|   | Maximum Nur          | nber of Bends for IDU  |                |  | 70                                     |
| NOTES:<br>AHRI Rated Conditions<br>(Rated data is determined at a fix | ed compressor speed) | <sup>1</sup> Cooling (Indoor // Outdoor)<br><sup>2</sup> Heating at 47°F (Indoor // Outdoor)<br><sup>3</sup> Heating at 17°F (Indoor // Outdoor) | °F<br>°F<br>°F | 80 DB, 67 WB // 95 DB, 75 WB<br>70 DB, 60 WB // 47 DB, 43 WB<br>70 DB, 60 WB // 17 DB, 15 WB |  |

Conditions

<sup>4</sup>Heating at 5°F (Indoor // Outdoor) <sup>A</sup>Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. <sup>A</sup> 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.

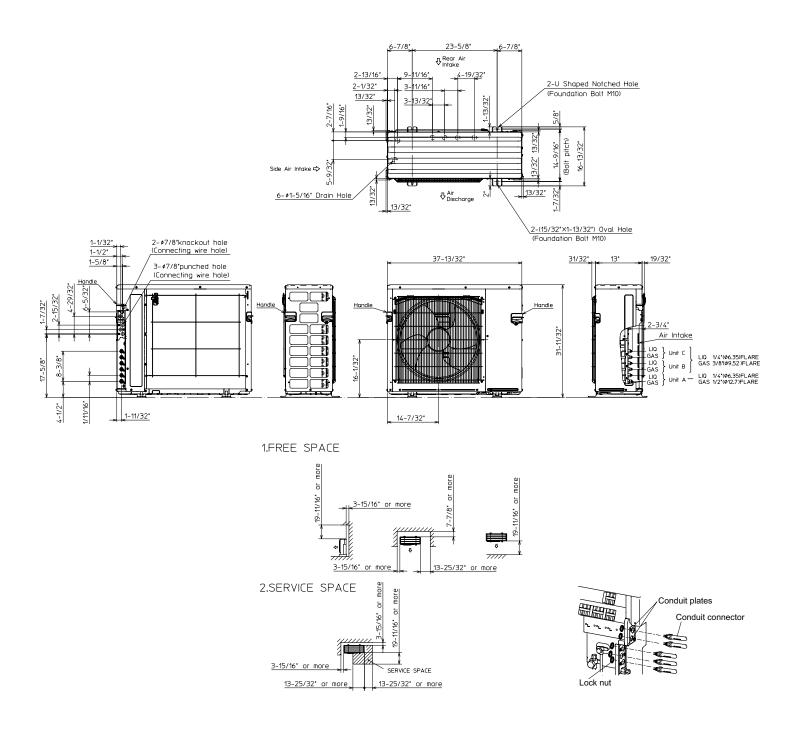
°F 70 DB, 60 WB // 5 DB, 4 WB

# OUTDOOR UNIT ACCESSORIES: MXZ-3C24NA3

| Air Outlet Guide        | Air Outlet Guide (1 Piece)   | PAC-SH96SG-E  |
|-------------------------|--|---------------|
| 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   |
| Control Wire            | M-Net Control Wire, 250' Roll (16-AWG, Standard, Twisted Pair, Shielded, Jacketed- Plenum rated)   | CW162S-250    |
| Drain Socket            | Drain Socket   | PAC-SG60DS-E  |
| Hail Guards             | Hail Guard   | HG-A9         |
| M-NET Converter         | M-NET Converter  | PAC-IF01MNT-E |
|                         | 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      |
| Mini-Split Wire         | 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      |
| Maximum Dand            | Condensing Unit Mounting Pad: 16" x 36" x 3"   | ULTRILITE1    |
| Mounting Pad            | Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic   | DSD-400P      |
| Optional Defrost Heater | Optional Defrost Heater  | PAC-645BH-E   |
| Port Adapter            | 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  |
|                         | 18" Single Fan Stand   | QSMS1801M     |
|                         | 24" Single Fan Stand   | QSMS2401M     |
| Stand                   | Condenser Wall Bracket   | QSWB2000M-1   |
|                         | Condenser Wall Bracket - Stainless Steel Finish  | QSWBSS        |
|                         | Outdoor Unit Stand — 12" High  | QSMS1201M     |

## OUTDOOR UNIT DIMENSIONS: MXZ-3C24NA3

### Unit: inch (mm)



1340 Satellite Boulevard Suwanee, GA 30024 Toll Free: 800-433-4822 www.mehvac.com



FORM# MXZ-3C24NA3 - 202206

### MSZ-GS12NA 12,000 BTU/H WALL-MOUNTED INDOOR UNIT



### Job Name:

System Reference:



Date:

#### GENERAL 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<sup>®</sup> smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers

| Specifications                      |   | System  |
|-------------------------------------|---|---|
| Unit Type                           |   | MSZ-GS12NA  |
|                                     | BTU/H   | 12,000<br>14,400  |
|                                     | BTU/H   |   |
| 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   |
| MCA                                 | A   | 1.0   |
| Fan Motor Full Load Amperage        | A   | 0.5   |
| Fan Motor Output                    | W   | 30  |
| Airflow Rate at Cooling, Dry        | CFM   | 134-160-222-307-381   |
| Airflow Rate at Cooling, Wet        | CFM   | 121-144-200-276-343   |
| Airflow Rate at Heating, Dry        | CFM   | 134-160-222-307-390   |
| Sound Pressure Level [Cooling]      | dB[A]   | 19-22-30-37-45  |
| Sound Pressure Level [Heating]      | dB[A]   | 19-22-30-37-43  |
| 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]   | 31-7/16 x 9-1/8 x 11-5/8 [798 x 232 x 295   |
| Package Dimensions                  | W x D x H: In. [mm]   | 33-1/2 x 12 x 14 [850 x 300 x 350]  |
| Unit Weight                         | Lbs. [kg]   | 23 [10.4]   |
| Package Weight                      | Lbs. [kg]   | 26 [11.5]   |
| Туре                                |   | R410A   |
| Gas Pipe Size O.D. [Flared]         | In.[mm]   | 3/8 [9.52]  |
| Liquid Pipe Size O.D. [Flared]      | In.[mm]   | 1/4 [6.35]  |
|                                     | Voltage, Phase, Frequency       Guaranteed Voltage Range       Voltage: Indoor - Outdoor, S1-S2       Voltage: Indoor - Outdoor, S2-S3       Short-circuit Current Rating [SCCR]       MCA       Fan Motor Full Load Amperage       Fan Motor Output       Airflow Rate at Cooling, Dry       Airflow Rate at Cooling, Wet       Airflow Rate at Cooling, Wet       Airflow Rate at Heating, Dry       Sound Pressure Level [Cooling]       Sound Pressure Level [Heating]       Drain Pipe Size       Coating on Heat Exchanger       External Finish Color       Unit Dimensions       Package Dimensions       Unit Weight       Package Weight       Type       Gas Pipe Size O.D. [Flared] | BTU/H     Guaranted Voltage Range     VAC     Voltage: Indoor - Outdoor, S1-S2     V AC     Voltage: Indoor - Outdoor, S2-S3     Short-circuit Current Rating [SCCR]     KA     MCA     Fan Motor Full Load Amperage     A     Fan Motor Output     W     Airflow Rate at Cooling, Dry     CFM     Airflow Rate at Cooling, Wet     CFM     Sound Pressure Level [Cooling]     dB[A]     Drain Pipe Size     In. [mm]     Coating on Heat Exchanger     External Finish Color     Unit Dimensions     W x D x H: In. [mm]     Package Dimensions  < |

<sup>3</sup>Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.

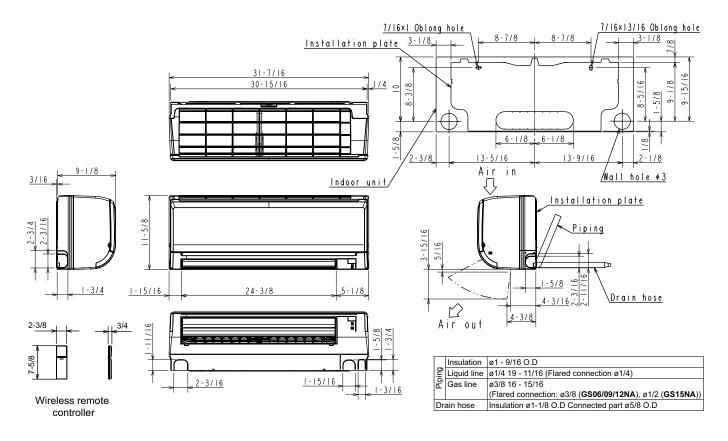
# **INDOOR UNIT ACCESSORIES: MSZ-GS12NA**

| Control Interface          | BACnet® and Modbus® Interface   | PAC-UKPRC001-CN-1 |
|----------------------------|---|-------------------|
|                            | CN24 Relay Kit  | CN24RELAY-KIT-CM3 |
|                            | IT Extender   | PAC-WHS01IE-E     |
|                            | kumo station® for kumo cloud®   | PAC-WHS01HC-E     |
|                            | System Control Interface  | MAC-334IF-E       |
|                            | Thermostat Interface  | PAC-US444CN-1     |
|                            | Thermostat Interface  | PAC-US445CN-1     |
|                            | USNAP Adapter   | PAC-WHS01UP-E     |
|                            | Wireless Interface for kumo cloud®  | PAC-USWHS002-WF-2 |
| Remote Sensor              | Wired Remote Sensor   | M21EAA307         |
|                            | Wireless temperature and humitity sensor for kumo cloud®                                    | PAC-USWHS003-TH-1 |
|                            | Deluxe Wired MA Remote Controller <sup>†</sup>  | PAR-40MAAU        |
| Wired Remote Controller    | Simple Ductless Wired Remote Controller   | PAC-SDW01RC-1     |
| wired Remote Controller    | Simple MA Remote Controller <sup>†</sup>  | PAC-YT53CRAU-J    |
|                            | Touch MA Controller <sup>†</sup>  | PAR-CT01MAU-SB    |
| Mirologo Romoto Controllor | kumo touch <sup>™</sup> RedLINK <sup>™</sup> Wireless Controller                            | MHK2              |
| Wireless Remote Controller | Lockdown bracket for remote controller  | RCMKP1CB          |
|                            | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | X87-721           |
|                            | Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor                      | X87-835           |
|                            | Blue Diamond Alarm Extension Cable—6.5 Ft.  | C13-192           |
| Condensate                 | 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            |
|                            | Fascia Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit | T18-016           |
|                            | Refco Condensate Pump (100-240 VAC)   | GOBI-II           |
|                            | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H                                     | СОМВІ             |
|                            | Sauermann Condensate Pump   | SI30-230          |
| 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        |
| <b>C</b> 114               | Anti-allergy Enzyme Filter  | MAC-408FT-E       |
| Filter                     | Microparticle (PM2.5) Filter  | MAC-EMF515FT-E    |

NOTES: <sup>†</sup>Requires MAC-334IF-E • M-Series EZ FIT<sup>®</sup> 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

## **INDOOR UNIT DIMENSIONS: MSZ-GS12NA**

### Unit: inch



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FORM# MSZ-GS12NA-U1 - 202304