# **M-SERIES**

9,000 BTU/H WALL-MOUNTED INDOOR UNIT FOR MXZ-C MULTI-ZONE HEAT-PUMP SYSTEMS



Job Name:

#### System Reference:





Indoor Unit: MFZ-KJ09NA-U1

Wireless Remote Controller

#### **ACCESSORIES:**

#### Indoor Unit

- □ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- □ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- □ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- De Platinum Catalyst Deodorizing Filter (MAC-308FT-E)
- □ Drain Pan Level Sensor (DPLS2)

#### Controls

- □ Wireless Controller (MHK1)
- □ Wired Remote Controller PAR-32MAA (Requires MAC-333IF-E)
- □ Wireless Interface for kumo cloud<sup>™</sup> (PAC-WHS01WF-E)
- □ Thermostat Interface (PAC-US444CN-1)

#### **SPECIFICATIONS:**

| Rated Capacity*               |           |        |
|-------------------------------|-----------|--------|
| Cooling <sup>1</sup>          | Btu/h / W | 9,000  |
| Heating at 47° F <sup>2</sup> | Btu/h / W | 11,000 |

Date:

Rating Conditions per AHRI Standard: <sup>1</sup> Cooling | Indoor: 80° F(27° C)DB / 67° F(19° C)WB ; Outdoor: 95° F(35° C)DB / 75° F(24° C)WB <sup>2</sup> Heating at 47°F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB ; Outdoor: 47° F (8° C)DB / 43° F (6° C)WB

For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the MXZ Technical and Service Manual.

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

| Electrical Power<br>Requirements  |   | 208 / 230V, 1-Phase, 60 Hz |  |  |  |
|-----------------------------------|---|----------------------------|--|--|--|
| Minimum Circuit<br>Ampacity (MCA) |   | A                          | 1.0  |  |  |
| Blower Motor                      | (ECM)   | F.L.A.                     | 0.62   |  |  |
| Blower Motor                      | Output  | W                          | 30   |  |  |
| Field Drainpi                     | pe Size O.D.  | In.(mm)                    | 5/8 (15)   |  |  |
| Airflow Rate                      | (Quiet - Lo - N   | led - Hi - S               | Super Hi)  |  |  |
| Cooling                           | DRY   |                            | 138-173-208-251-275                              |  |  |
| Cooling                           | WET   | CFM                        | 117-147-177-213-234                              |  |  |
| Heating                           |   |                            | 138-159-180-219-343                              |  |  |
| Sound Press                       | Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi) |                            |  |  |  |
| Cooling                           |   | dB(A)                      | 21-25-30-34-38                                   |  |  |
| Heating                           | Heating   |                            | 21-24-27-32-41                                   |  |  |
| Unit Dimensions<br>(H x W x D)    |   | In.(mm)                    | 23-5/8 x 29-17/32 x 8-15/32<br>(600 x 750 x 215) |  |  |
| Package Dimensions<br>(H x W x D) |   | ln.(mm)                    | 27-3/4 x 32-3/4 x 12<br>(693 x 816 x 275)        |  |  |
| Unit/Package Weight               |   |                            |  |  |  |
| Unit                              |   | Lbs.(kg)                   | 33 (15)  |  |  |
| Package                           |   | Lbs.(kg)                   | 41 (18.5)  |  |  |
| External Finish                   |   | Munsell 1.0Y 9.2 / 0.2     |  |  |  |
| Refrigerant Piping (Flared)       |   |                            |  |  |  |
| Liquid (High Pressure)            |   | In (mm)                    | 1/4 (6.35)                                       |  |  |

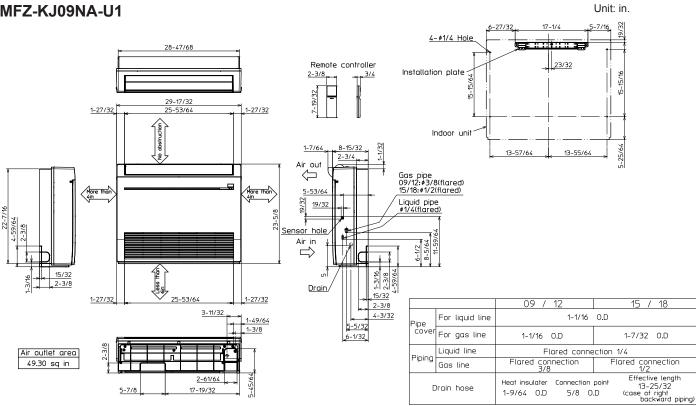
In.(mm)

3/8 (9.52)

Gas (Low Pressure)

## **DIMENSIONS: MFZ-KJ09NA-U1**

### MFZ-KJ09NA-U1





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FORM# MFZ-KJ09NA-U1 FOR MXZ-C MULTI-ZONE SYSTEMS - 201605

# **M-SERIES**



Job Name:

#### System Reference:





Indoor Unit: MFZ-KJ15NA-U1

Wireless Remote Controller

#### **ACCESSORIES:**

#### Indoor Unit

- □ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- □ Condensate Pump (Sauermann SI30-115/230; 115/230V)
- □ Anti-Allergy Enzyme Filter (MAC-408FT-E)
- De Platinum Catalyst Deodorizing Filter (MAC-308FT-E)
- □ Drain Pan Level Sensor (DPLS2)

#### Controls

- □ Wireless Controller (MHK1)
- □ Wired Remote Controller PAR-32MAA (Requires MAC-333IF-E)
- □ Wireless Interface for kumo cloud<sup>™</sup> (PAC-WHS01WF-E)
- □ Thermostat Interface (PAC-US444CN-1)

#### **SPECIFICATIONS:**

| Rated Capacity*               |           |        |
|-------------------------------|-----------|--------|
| Cooling <sup>1</sup>          | Btu/h / W | 15,000 |
| Heating at 47° F <sup>2</sup> | Btu/h / W | 18,000 |

Date:

Rating Conditions per AHRI Standard: <sup>1</sup> Cooling | Indoor: 80° F(27° C)DB / 67° F(19° C)WB ; Outdoor: 95° F(35° C)DB / 75° F(24° C)WB <sup>2</sup> Heating at 47°F | Indoor: 70° F (21° C)DB / 60° F (16° C)WB ; Outdoor: 47° F (8° C)DB / 43° F (6° C)WB

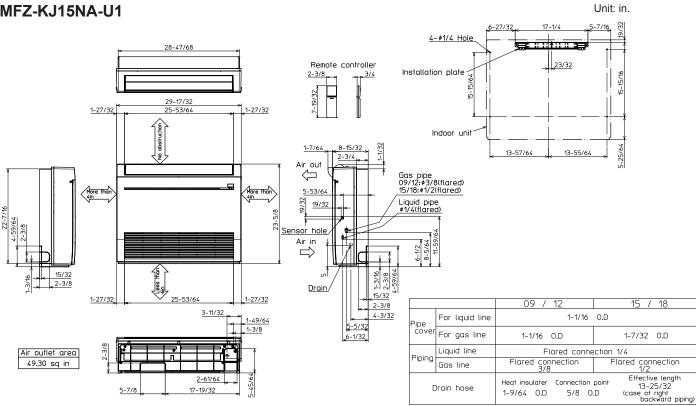
For data on specific indoor units (all ducted, all non-ducted, and both ducted and non-ducted) combinations, see the MXZ Technical and Service Manual.

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

| Electrical Power<br>Requirements  |                 | 208 / 230V, 1-Phase, 60 Hz |  |  |  |
|-----------------------------------|-----------------|----------------------------|--|--|--|
| Minimum Cir<br>Ampacity (M        |                 | A                          | 1  |  |  |
| Blower Motor                      | (ECM)           | F.L.A.                     | 0.62   |  |  |
| Blower Motor                      | Output          | W                          | 30   |  |  |
| Field Drainpi                     | pe Size O.D.    | In.(mm)                    | 5/8 (15)   |  |  |
| Airflow Rate                      | (Quiet - Lo - N | 1ed - Hi - S               | Super Hi)  |  |  |
| Casling                           | DRY             |                            | 198-237-282-328-374                              |  |  |
| Cooling                           | WET             | CFM                        | 168-201-240-279-318                              |  |  |
| Heating                           | DRY             |                            | 212-254-290-325-470                              |  |  |
| Sound Press                       | ure Level (Qui  | iet - Lo - M               | led - Hi - Super Hi)                             |  |  |
| Cooling                           |                 | dB(A)                      | 28-31-36-40-43                                   |  |  |
| Heating                           | Heating         |                            | 29-34-36-39-49                                   |  |  |
| Unit Dimensions<br>(H x W x D)    |                 | ln.(mm)                    | 23-5/8 x 29-17/32 x 8-15/32<br>(600 x 750 x 215) |  |  |
| Package Dimensions<br>(H x W x D) |                 | ln.(mm)                    | 27-3/4 x 32-3/4 x 12<br>(693 x 816 x 275)        |  |  |
| Unit/Package                      | e Weight        |                            |  |  |  |
| Unit                              |                 | Lbs.(kg)                   | 33 (15)  |  |  |
| Package                           |                 | Lbs.(kg)                   | 41 (18.5)  |  |  |
| External Finish                   |                 | Munsell 1.0Y 9.2 / 0.2     |  |  |  |
| Refrigerant F                     | Piping (Flared) |                            |  |  |  |
| Liquid (High Pressure)            |                 | I. ()                      | 1/4 (6.35)                                       |  |  |
| Gas (Low Pressure)                |                 | In.(mm)                    | 1/2 (12.7)                                       |  |  |
|                                   |                 | 1                          |  |  |  |

## **DIMENSIONS: MFZ-KJ15NA-U1**

### MFZ-KJ15NA-U1





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FORM# MFZ-KJ15NA-U1 FOR MXZ-C MULTI-ZONE SYSTEMS - 201605

### MXZ-3C24NAHZ3 2-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM

Job Name:

System Reference:

Date:



#### FEATURES

- Variable speed INVETER-driven compressor
- Built-in base pan heater
- Quiet outdoor unit operation as low as 54 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection
- Hyper-heating performance offers 100% heating capacity at 5°F and 90% heating capacity at -13°F
- ENERGY STAR<sup>®</sup> certified (non-ducted)

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

## SPECIFICATIONS: MXZ-3C24NAHZ3

|  | Maximum Capacity  | BTU/H                        | 23,600 // 23,600 // 23,600                               |
|--|---|------------------------------|--|
|  | Rated Capacity  | BTU/H                        | 22,000 // 22,800 // 23,600                               |
| ooling <sup>1</sup> (Non-Ducted // Mix // Ducted)  | Minimum Capacity  | BTU/H                        | 12,600 // 12,600 // 12,600                               |
| , , , , , , , , , , , , , , , , , , ,              | Maximum Power Input                                       | W                            | 3,770 // 3,770 // 3,770                                  |
|  | Rated Power Input   | W                            | 1,630 // 1,995 // 2,360                                  |
|  | Power Factor (208V, 230V)                                 | %                            | 98.5, 98.5 // 98.5, 98.5 // 98.5, 98.5                   |
|  | Maximum Capacity  | BTU/H                        | 30,600 // 30,600 // 30,600                               |
| leating at 47°F <sup>2</sup> (Non-Ducted // Mix // | Rated Capacity Minimum Capacity                           | BTU/H<br>BTU/H               | 25,000 // 24,800 // 24,600<br>11,400 // 11,400 // 11,400 |
| Ducted)  | Maximum Power Input                                       | W                            | 4,540 // 4,540 // 4,540                                  |
| ,  | Rated Power Input   | W                            | 1,725 // 1,809 // 1,871                                  |
|  | Power Factor (208V, 230V)                                 | %                            | 97.3, 97.3 // 97.6, 97.4 // 97.4, 97.6                   |
|  | Maximum Capacity  | BTU/H                        | 25,000 // 24,800 // 24,600                               |
| leating at 17°F <sup>3</sup> (Non-Ducted // Mix // | Rated Capacity  | BTU/H                        | 14,000 // 14,000 // 14,000                               |
| Jucted)  | Maximum Power Input                                       | W                            | 3,557 // 3,671 // 3,795                                  |
|  | Rated Power Input   | W                            | 1,622 // 1,629 // 1,635                                  |
| eating at 5°F4 (Non-Ducted // Mix //               | Maximum Capacity  | BTU/H                        | 25,000 // 24,800 // 24,600                               |
| ucted)   | Maximum Power Input                                       | W                            | 3,760 // 3,980 // 4,200                                  |
|  | SEER  |                              | 19.0 // 17.2 // 15.5                                     |
|  | EER1  |                              | 13.5 // 11.7 // 10.0                                     |
|  | HSPF (IV)   |                              | 10.0 // 9.5 // 9.0                                       |
| fficiency (Non-Ducted // Mix // Ducted)            | COP at 47°F <sup>2</sup>                                  |                              | 4.25 // 4.02 // 3.8                                      |
|  | COP at 17°F at Maximum Capacity <sup>3</sup>              |                              | 2.06 // 1.95 // 1.9                                      |
|  | COP at 5°F at Maximum Capacity <sup>₄</sup>               |                              | 1.95 // 2.11 // 1.72                                     |
|  | ENERGY STAR® Certified                                    |                              | Yes // No // No  |
|  | Electrical Power Requirements                             | Voltage, Phase,<br>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   |
| lectrical  | Short-circuit Current Rating (SCCR)                       | kA                           | 5  |
|  | Recommended Fuse/Breaker Size                             | A                            | 40   |
|  | Recommended Wire Size                                     | AWG                          | 14   |
|  | Minimum Circuit Ampacity                                  | A                            | 30.5   |
|  | Maximum Overcurrent Protection                            | A                            | 40   |
|  | Fan Motor Full Load Amperage                              | A                            | 2.43   |
|  | Airflow Rate (Cooling / Heating)                          | CFM                          | 2,150 / 2,550  |
|  | Refrigerant Control                                       |                              | LEV  |
|  | Defrost Method  |                              | Reverse Cycle  |
|  | Heat Exchanger Type                                       |                              | Plate fin coil   |
|  | Sound Pressure Level, Cooling <sup>1</sup>                | dB(A)                        | 54 58  |
|  | Sound Pressure Level, Heating <sup>2</sup>                | dB(A)                        |  |
|  | Compressor Type Compressor Model                          |                              | DC INVERTER-driven Twin Rotary<br>MNB33FBTMC-L           |
|  | Compressor Rated Load Amps                                | A                            | 20   |
|  | Compressor Rated Load Amps                                | A                            | 20   |
| utdoor unit  | Compressor Oil Type // Charge                             | OZ.                          | EV50S // 37.2  |
|  | Base Pan Heater   | VL.                          | Built-in   |
|  |   | W: In. [mm]                  | 37-13/32 [950]   |
|  | Unit Dimensions   | D: In. [mm]                  | 13 [330]   |
|  |   | H: In. [mm]                  | 41-17/64 [1,048]   |
|  |   | W: In. [mm]                  | 41-3/8 [1,050]   |
|  | Package Dimensions  | D: In. [mm]                  | 17-3/8 [440]   |
|  |   | H: In. [mm]                  | 46-3/4 [1,190]   |
|  | Unit Weight   | Lbs.[kg]                     | 189 [86]   |
|  | Package Weight  | Lbs.[kg]                     | 212 [96]   |
|  | Cooling Intake Air Temp (Maximum / Minimum <sup>*</sup> ) | °FDB                         | 115 / 14   |
| utdoor unit operating temperature                  | Cooling Thermal Lock-out / Re-start Temperatures          | °FDB                         | 10.4 / 14  |
|  | Heating Intake Air Temp (Maximum / Minimum)               | °FWB                         | 65 / -13   |
| nge  | Heating Thermal Lock-out / Re-start Temperatures          | °FDB                         | -18 / -14  |
| nge  |   |                              | 8.0, 13.0  |
| inge   | Charge  | Lbs, oz                      | 0.0, 10.0  |
| Refrigerant  | Charge<br>Chargeless Piping Length                        | Ebs, oz<br>Ft. [m]           | 98.0 [30.0]  |

<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-3C24NAHZ3

|   | Maximum Nur     | nber of Connected IDU  | 3              |  |  |
|---|-----------------|--|----------------|--|--|
| Indoor unit connection  | Minimum Num     | ber of Connected IDU   | 2              |  |  |
|   |                 | ected capacity   |                | BTU/H  | 12,000                                 |
|   | Maximum con     | nected capacity  |                | BTU/H  | 27,000                                 |
|   | Liquid Pipe Siz | 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]                               |
| Maxin<br>Farthe   | 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             |  |  |
| (Rated data is determined at a fixed compressor speed) <sup>2</sup> Heating at 47°F (Indoor |                 | <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) Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. ^ 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.

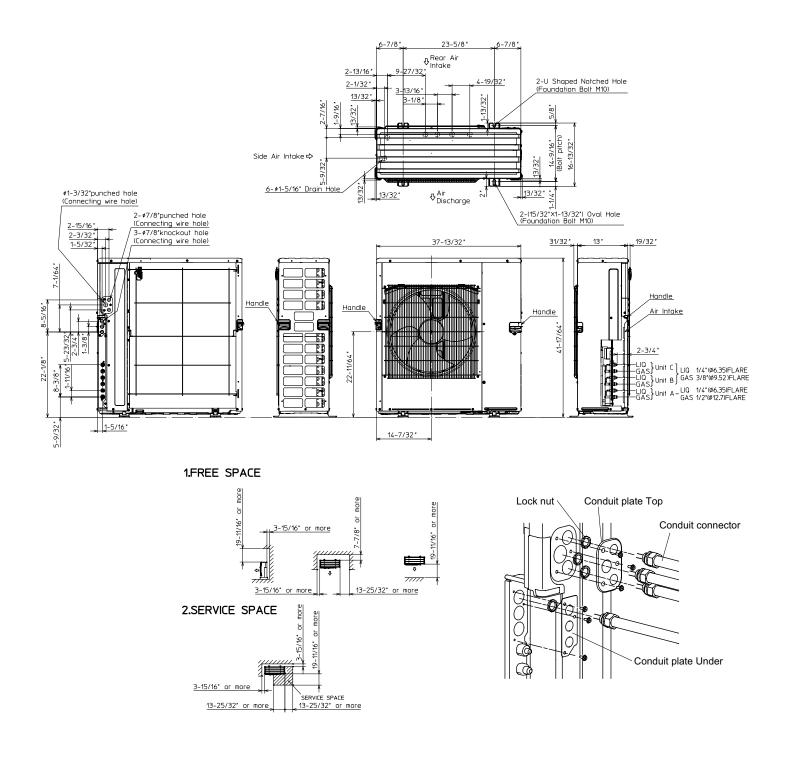
°F 70 DB, 60 WB // 5 DB, 4 WB

## OUTDOOR UNIT ACCESSORIES: MXZ-3C24NAHZ3

| 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     |
| Drain Socket     | Drain Socket   | PAC-SG60DS-E  |
| Hail Guards      | Hail Guard   | HG-A1         |
| M-NET Converter  | M-NET Converter  | PAC-IF01MNT-E |
| Mounting Pad     | Condensing Unit Mounting Pad: 16" x 36" x 3"           | ULTRILITE1    |
|                  | Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic | DSD-400P      |
|                  | Adaptor: 1/2" x 3/8"                                   | MAC-A455JP-E  |
| Port Adapter     | 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     |

### OUTDOOR UNIT DIMENSIONS: MXZ-3C24NAHZ3

#### Unit: inch (mm)



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FORM# MXZ-3C24NAHZ3 - 202206