M-SERIES

SUBMITTAL DATA: MFZ-KJ09NA-U1

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



Job Name: System Reference: Date:





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)
- □ 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™ (PAC-WHS01WF-E)
- □ Thermostat Interface (PAC-US444CN-1)

SPECIFICATIONS:

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

- Rating Conditions per AHRI Standard: 1 Cooling | Indoor: 80° F(27° C)DB / 67° F(19° C)WB ; Outdoor: 95° F(35° C)DB / 75° F(24° C)WB
- ² 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.

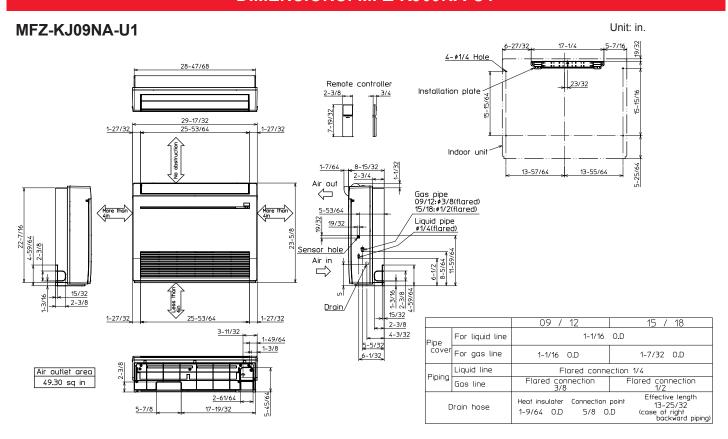
Applications should be restricted to comfort cooling only: equipment cooling applications are not

| Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. | | | | |
|---|-----------------|--------------|---------------------|--|
| Electrical Power Requirements 208 / 230 | | 208 / 23 | 0V, 1-Phase, 60 Hz | |
| Minimum Cir Ampacity (M | | A 1.0 | | |
| Blower Motor | (ECM) | F.L.A. | 0.62 | |
| Blower Motor | Output | W 30 | | |
| Field Drainpipe Size O.D. In.(mm) | | In.(mm) | 5/8 (15) | |
| Airflow Rate | (Quiet - Lo - N | 1ed - Hi - S | Super Hi) | |
| Cooling | DRY | | 138-173-208-251-275 | |
| Cooling | WET | CFM | 117-147-177-213-234 | |
| Heating DRY | | | 138-159-180-219-343 | |
| Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi) | | | | |
| Cooling | | dB(A) | 21-25-30-34-38 | |
| | | 1 UD(A) | | |

| Sound Pressure Level (Qui | Sound Pressure Level (Quiet - Lo - Med - Hi - Super Hi) | | | | |
|-----------------------------------|---|--|--|--|--|
| Cooling | dB(A) | 21-25-30-34-38 | | | |
| Heating | ub(A) | 21-24-27-32-41 | | | |
| Unit Dimensions (H x W x D) | In.(mm) | 23-5/8 x 29-17/32 x 8-15/32 (600 x 750 x 215) | | | |
| Package Dimensions (H x W x D) | In.(mm) | 27-3/4 x 32-3/4 x 12 (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 | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | |

| LAternal Fillion | Mulisell | 1.01 9.27 0.2 | | |
|-----------------------------|----------|---------------|--|--|
| Refrigerant Piping (Flared) | | | | |
| Liquid (High Pressure) | 1 () | 1/4 (6.35) | | |
| Gas (Low Pressure) | In.(mm) | 3/8 (9.52) | | |

DIMENSIONS: MFZ-KJ09NA-U1





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







M-SERIES

SUBMITTAL DATA: MFZ-KJ15NA-U1

15,000 BTU/H WALL-MOUNTED INDOOR UNIT FOR MXZ-C MULTI-ZONE HEAT-PUMP SYSTEMS



Job Name: System Reference: Date:





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)
- □ 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™ (PAC-WHS01WF-E)
- □ Thermostat Interface (PAC-US444CN-1)

SPECIFICATIONS:

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

- Rating Conditions per AHRI Standard: 1 Cooling | Indoor: 80° F(27° C)DB / 67° F(19° C)WB ; Outdoor: 95° F(35° C)DB / 75° F(24° C)WB ² 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.

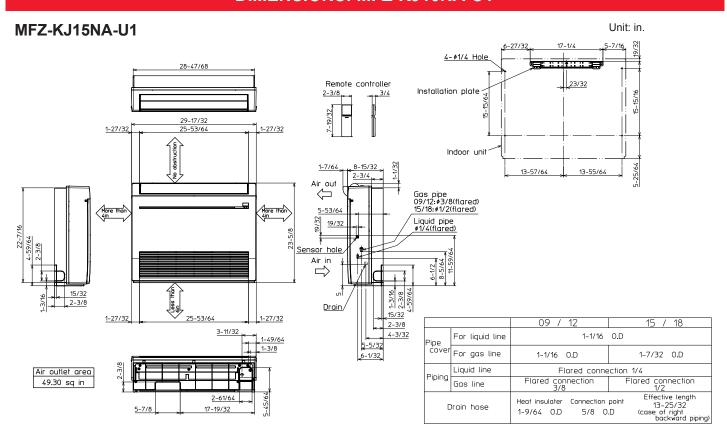
| Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. | | | | |
|---|-----------------|--------------|----------------------|--|
| Electrical Power Requirements 208 / | | 208 / 23 | 0V, 1-Phase, 60 Hz | |
| Minimum Cir Ampacity (M | | A 1 | | |
| Blower Motor | (ECM) | F.L.A. 0.62 | | |
| Blower Motor Output W 30 | | W | 30 | |
| Field Drainpipe Size O.D. | | In.(mm) | 5/8 (15) | |
| Airflow Rate | (Quiet - Lo - N | led - Hi - S | Super Hi) | |
| Cooling | DRY | | 198-237-282-328-374 | |
| Cooling | WET | CFM | 168-201-240-279-318 | |
| Heating DRY | | | 212-254-290-325-470 | |
| Sound Press | sure Level (Qu | iet - Lo - N | led - Hi - Super Hi) | |
| Cooling | | dB(A) | 28-31-36-40-43 | |

| | 4D/V) | |
|-----------------------------------|----------|--|
| Heating | dB(A) | 29-34-36-39-49 |
| Unit Dimensions (H x W x D) | In.(mm) | 23-5/8 x 29-17/32 x 8-15/32 (600 x 750 x 215) |
| Package Dimensions (H x W x D) | In.(mm) | 27-3/4 x 32-3/4 x 12 (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 | | | | |
| | | | | | |
| Defrigerent Diving (Flored) | | | | | |

| External Finish | Munsell 1.0Y 9.2 / 0.2 | | |
|-----------------------------|------------------------|------------|--|
| Refrigerant Piping (Flared) | | | |
| Liquid (High Pressure) | In.(mm) | 1/4 (6.35) | |
| Gas (Low Pressure) | 111.(111111) | 1/2 (12.7) | |

DIMENSIONS: MFZ-KJ15NA-U1





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







MXZ-3C30NAHZ3 2.5-TON MULTI-ZONE INVERTER HEAT-PUMP SYSTEM



| . I | nh | ıΝ | la | m | е | • |
|-----|----|----|----|---|---|---|

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 88% heating capacity at -13°F
- ENERGY STAR® certified (non-ducted)

SPECIFICATIONS: MXZ-3C30NAHZ3

| | Maximum Capacity | BTU/H | 23,600 // 23,600 // 23,600 |
|--|--|------------------------------|--|
| | Rated Capacity | BTU/H | 28,400 // 27,800 // 27,400 |
| | Minimum Capacity | BTU/H | 12,600 // 12,600 // 12,600 |
| Cooling ¹ (Non-Ducted // Mix // Ducted) | Maximum Power Input | W | 3,770 // 3,770 |
| | Rated Power Input | W | 2,272 // 2,467 // 2,661 |
| | Power Factor (208V, 230V) | % | 98.7, 98.7 // 98.7, 98.7 // 98.7, 98.7 |
| | Maximum Capacity | BTU/H | 36,000 // 30,600 // 30,600 |
| | Rated Capacity | BTU/H | 28,600 // 28,000 // 27,600 |
| Heating at 47°F2 (Non-Ducted // Mix // | Minimum Capacity | BTU/H | 11,400 // 11,400 // 11,400 |
| Ducted) | Maximum Power Input | W | 4,540 // 4,540 // 4,540 |
| , | Rated Power Input | W | 2,096 // 2,142 // 2,187 |
| | Power Factor (208V, 230V) | % | 97.8, 97.8 // 97.9, 97.9 // 97.9, 97.9 |
| | Maximum Capacity | BTU/H | 28,600 // 28,100 // 27,600 |
| Heating at 17°F3 (Non-Ducted // Mix // | Rated Capacity | BTU/H | 18,000 // 17,750 // 16,500 |
| Ducted) | Maximum Power Input | W | 4,192 // 4,223 // 4,258 |
| , | Rated Power Input | W | 1,990 // 1,992 // 1,993 |
| Heating at 5°F4 (Non-Ducted // Mix // | Maximum Capacity | BTU/H | 28,600 // 28,100 // 27,600 |
| Ducted) | Maximum Power Input | W W | 4,290 // 4,495 // 4,700 |
| | · | VV | |
| | SEER EER¹ | | 18.0 // 17.0 // 16.0 |
| | | | 12.5 // 11.4 // 10.3 |
| Efficiency (Non-Ducted // Mix // Ducted) | HSPF (IV) | | 11.0 // 10.4 // 9.8 |
| Emolency (Non-Ducled // IVIIX // Ducled) | COP at 47°F2 | | 4.0 // 3.85 // 3.7 |
| | COP at 17°F at Maximum Capacity ³ | | 2.0 // 1.95 // 1.9 |
| | COP at 5°F at Maximum Capacity ⁴ | | 1.95 // 1.91 // 1.72 |
| | ENERGY STAR® Certified | \/-It Db | Yes // No // No |
| | Electrical Power Requirements | 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 |
| Electrical | 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 | 2,224 / 2,550 |
| | 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) | 58 |
| | Compressor Type | , | DC INVERTER-driven Twin Rotary |
| | Compressor Model | | MNB33FBTMC-L |
| | Compressor Rated Load Amps | A | 20 |
| 0.44 | Compressor Locked Rotor Amps | A | 28.8 |
| Outdoor unit | Compressor Oil Type // Charge | OZ. | FV50S // 37.2 |
| | Base Pan Heater | | 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] | 213 [97] |
| | Cooling Intake Air Temp (Maximum / Minimum* ^A) | °FDB | 115 / 14 |
| Outdoor unit operating temperature | Cooling Thermal Lock-out / Re-start Temperatures | °FDB | 10.4 / 14 |
| range | Heating Intake Air Temp (Maximum / Minimum) | °FWB | 65 / -13 |
| | Heating Thermal Lock-out / Re-start Temperatures | °FDB | -18 / -14 |
| | Charge | Lbs, oz | 8.0, 13.0 |
| Refrigerant | Chargeless Piping Length | Ft. [m] | 98.0 [30.0] |
| rtenigerant | | | |
| Keingerant | Additional Refrigerant Charge Per Additional Piping Length | oz./Ft. [g/m] | 0.216 [20] |

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

¹Cooling (Indoor // Outdoor) °F
²Heating at 47°F (Indoor // Outdoor) °F
³Heating at 17°F (Indoor // Outdoor) °F

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

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

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.

^{&#}x27;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

SPECIFICATIONS: MXZ-3C30NAHZ3

| | Maximum Number of Connected IDU | Maximum Number of Connected IDU | | |
|------------------------|--|---------------------------------|--|--|
| Indoor unit connection | Minimum Number of Connected IDU | | 2 | |
| mader and connection | Minimum connected capacity | BTU/H | 12,000 | |
| | Maximum connected capacity | BTU/H | 36,000 | |
| | Liquid Pipe Size 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 Length | Ft. [m] | 230 [70] | |
| Piping | Maximum Height Difference, ODU above IDU | Ft. [m] | 49 [15] | |
| | 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 for IDU | | 70 | |

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

¹Cooling (Indoor // Outdoor) °F ²Heating at 47°F (Indoor // Outdoor) °F ³Heating at 17°F (Indoor // Outdoor) °F

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

4Heating 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.

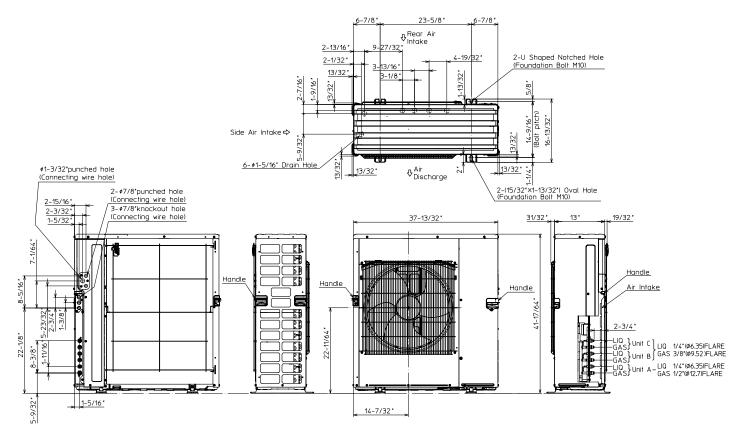
Although the maximum connectable capacity is 130%, the outdoor unit cannot provide more than 100% of the rated capacity. Please utilize this over capacity capability for load shedding or applications where it is known that all connected units will NOT be operating at the same time.

OUTDOOR UNIT ACCESSORIES: MXZ-3C30NAHZ3

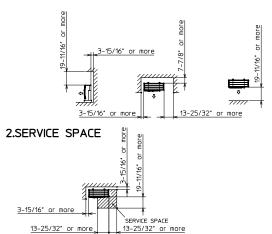
| Air Outlet Guide | Air Outlet Guide (1 Piece) | PAC-SH96SG-E |
|------------------|--|---------------|
| Ball Valve | Refrigeration Ball Valve - 1/2" | BV12FFSI2 |
| | Refrigeration Ball Valve - 1/4" | BV14FFSI2 |
| | Refrigeration Ball Valve - 3/8" | BV38FFSI2 |
| | Refrigeration Ball Valve - 5/8" | 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 |
| 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 |
| 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 |

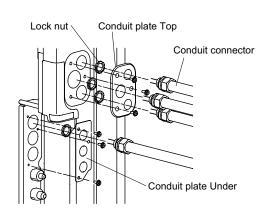
OUTDOOR UNIT DIMENSIONS: MXZ-3C30NAHZ3

Unit: inch (mm)



1.FREE SPACE





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





