MITSUBISHI ELECTRIC
Changes for the Better

# M-SERIES

## SUBMITTAL DATA: MXZ-5C42NA

**MULTI-INDOOR INVERTER HEAT-PUMP SYSTEM**

| | | |
|---|---|---|
| Job Name: | Location: | Date: |
| Purchaser: | Engineer: | |
| Submitted to: | For ☐Reference ☐Approval ☐Construction | |
| System Designation: | Schedule No.: | |

### GENERAL FEATURES

- Quiet operation
- Optional base pan heater to prevent ice in drain pan

### ACCESSORIES

- ☐ 3/8" x 1/2" Port Adapter (MAC-A454JP-E)
- ☐ 1/2" x 3/8" Port Adapter (MAC-A455JP-E)
- ☐ 1/2" x 5/8" Port Adapter (MAC-A456JP-E)
- ☐ 1/4" x 3/8" Port Adapter (PAC-493PI)
- ☐ 3/8" x 5/8" Port Adapter (PAC-SG76RJ-E)
- ☐ M-NET Adapter (PAC-IF01MNT-E)
- ☐ Base Heater (PAC-645BH-E)
- ☐ Windscreens (*1)

Outdoor Unit: MXZ-5C42NA

| Specifications | | | Model Name |
|---|---|---|---|
| Unit Type | | | MXZ-5C42NA |
| Cooling* Non-ducted / Ducted (*2) | Rated Capacity | Btu/h | 40,500 / 37,500 |
| | Capacity Range | Btu/h | 6,000 - 43,000 |
| | Rated Total Input | W | 4,403 / 4,112 |
| Heating at 47°F* (8.3°C*) Non-ducted / Ducted (*2) | Rated Capacity | Btu/h | 45,000 / 41,000 |
| | Capacity Range | Btu/h | 7,200 - 53,600 |
| | Rated Total Input | W | 3,575 / 3,463 |
| Heating at 17°F* (-8°C) Non-ducted / Ducted (*2) | Rated Capacity | Btu/h | 24,400 / 23,000 |
| | Rated Total Input | W | 2,943 / 2,869 |
| Heating at 5°F* (-15°C*) (*2) | Capacity | Btu/h | NA |
| Electrical Requirements | Power Supply | Voltage, Phase, Hertz | 208 / 230V, 1-Phase, 60 Hz |
| | Recommended Fuse/Breaker Size | A | 40 |
| | MCA | A | 31.9 |
| Voltage | Indoor - Outdoor S1-S2 | V | AC 208 / 230 |
| | Indoor - Outdoor S2-S3 | V | +12VDC to 24VDC |
| Compressor | | | INVERTER-driven Scroll Hermetic |
| Fan Motor (ECM) | | F.L.A. | 1.9 |
| Sound Pressure Level | Cooling | dB(A) | 56 |
| | Heating | | 58 |
| External Dimensions (H x W x D) | | In (mm) | 41-9/32 x 37-13/32 x 13 (1048 x 950 x 330) |
| Net Weight | | Lbs (kg) | 189 (86) |
| External Finish | | | Munsell No. 3Y 7.8/11 |
| Refrigerant Pipe Size O.D. — Five Ports | Liquid | In (mm) | 1/4 (6.35) |
| | Gas | | A:1/2 (12.7) ; B,C,D,E: 3/8 (9.52) |
| Max. Refrigerant Line Length (A+B+C+D+E) | | Ft (m) | 262 (80) |
| Max. Piping Length for Each Indoor Unit | | Ft (m) | 82 (25) |
| Max. Refrigerant Pipe Height Difference | If IDU is Above ODU | Ft (m) | 49 (15) |
| | If IDU is Below ODU | | 49 (15) |
| Connection Method Indoor / Outdoor | | | Flared/Flared |
| Refrigerant | | | R410A |

*** Rating Conditions per AHRI Standard:**

Cooling | Indoor: 80º F (27º C) DB / 67º F (19º C) WB
Cooling | Outdoor: 95º F (35º C) DB / 23.9° C (75° F) WB

Heating at 47ºF | Indoor: 70º F (21º C) DB / 60º F (16º C) WB
Heating at 47ºF | Outdoor: 47º F (8º C) DB / 43º F (6º C) WB

Heating at 17º F | Indoor: 70º F (21º C) DB
Heating at 17º F | Outdoor: 17º F (-8º C) DB / 15º F (-9º C) WB

*1 Required in windy locations or very low temperatures.
*2 Non-ducted (06+09+09+09+09) / Ducted (09+09+09+09+09) combinations.

R-410A OZONE-FRIENDLY REFRIGERANT
MITSUBISHI ELECTRIC thinks green

Specifications are subject to change without notice.

# SPECIFICATIONS: MXZ-5C42**NA**, contd.

**Operating Range:**

| | Outdoor |
|---|---|
| Cooling | 14 to 115° F (−10 to 46° C) DB |
| Heating | 5 to 65° F (−15 to 18° C) WB |

**Energy Efficiencies:**

| Indoor Unit Type | SEER | EER | HSPF (IV) | COP @ 47° F | COP @ 17° F |
|---|---|---|---|---|---|
| **Non-ducted (*2)** | 19.7 | 9.2 | 10.30 | 3.69 | NA |
| **Ducted and Non-ducted** | NA | NA | NA | NA | NA |
| **Ducted (*2)** | 15.2 | 9.0 | 9.10 | 3.47 | NA |

**Multi-zone Indoor/Outdoor Combination Table**

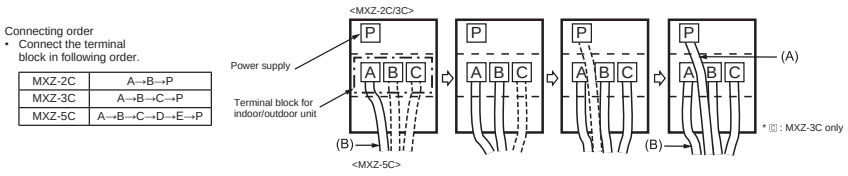
| | MSZ-FH* | MSZ-GE* | MFZ* | MVZ* | SEZ-KD* | SLZ* | PCA (A24)* | PLA* | PEAD* |
|---|---|---|---|---|---|---|---|---|---|
| **MXZ-5C42NA** | OK | OK | OK | 12,18,24 OK<br>30,36 NO | OK | OK | OK | 18, 24 OK<br>12 NO | 24 OK<br>30, 36 NO |

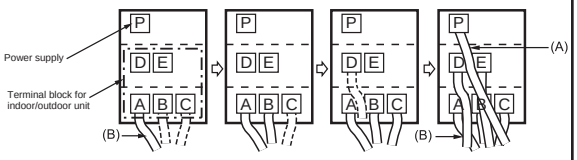
*** Refer to indoor unit submittal.**

**Notes:**
- Minimum of two Indoor Units must be connected to the MXZ-5C42NA.
- Minimum installed capacity cannot be less than 12,000 Btu/h.
- System can operate with only one Indoor Unit turned on.
- May connect to any style indoor unit or combination.
- Information provided at 208/230V.
  Refer to the MXZ-C Technical & Service Manual for detailed specifications and additional information per Indoor Unit Combination.

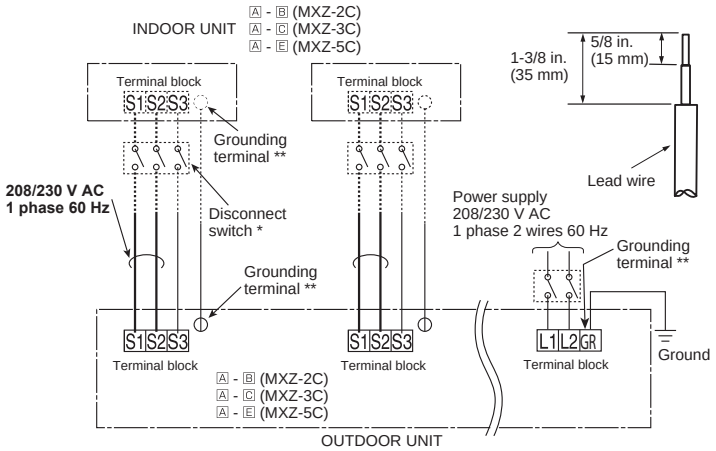
**MVZ CONNECTION RULES:**
- Only 1 MVZ may be used on any system.
- When an MVZ is connected, total connected capacity must be less than 100%.
- When an MVZ is connected, no P-Series indoor units can be used (PCA, PLA, or PEAD).

**Indoor - Outdoor Power Connection:**




**Remark:**
* A disconnect switch should be required. Check the local code.
** Use a ring tongue terminal in order to connect a ground wire to terminal.




- **Connect wires to the matching numbers of terminals.**
- **Be sure to attach each screw to its correspondent terminal when securing the cord and/or the wire to the terminal block.**

**CONNECTING WIRES AND CONNECTING GROUND WIRE**
- Use solid conductor Min. AWG14 or stranded conductor Min. AWG14.
- Use double insulated copper wire with 600 V insulation.
- Use copper conductors only.
- * **Follow local electrical code.**

**POWER SUPPLY CABLE**
- Use solid or stranded conductor Min. AWG8.
- Use copper conductors only.
- * **Follow local electrical code.**

**GROUND WIRE**
- Use solid or stranded conductor Min. AWG8.
- Use copper conductors only.
- * **Follow local electrical code.**

⚠ **WARNING:**
- **Use the indoor/outdoor unit connecting wire that meets the Standards to connect the indoor and outdoor units and fix the wire to the terminal block securely so that no external force is conveyed to the connecting section of the terminal block. An incomplete connection or fixing of the wire could result in a fire.**

For future servicing, give extra length to the connecting wires.

- **Turn on the main power when the ambient temperature is -4°F (-20°C) or higher.**
- **Under conditions of -4°F (-20°C), it needs at least 4hr stand by before the units operate in order to warm the electrical parts.**

Notes:

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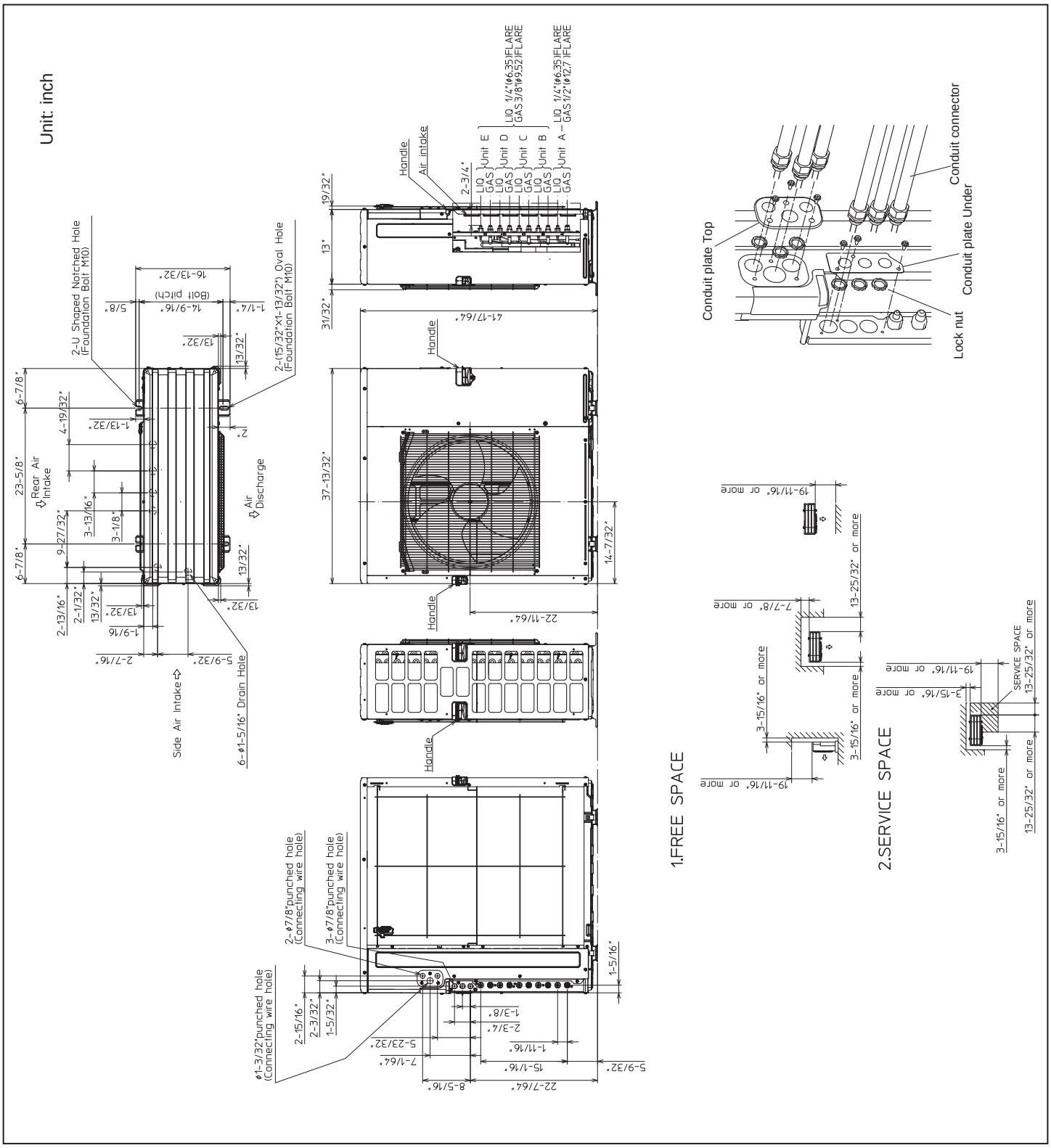
Form # SB_MXZ-5C42NA_201506

# DIMENSIONS: MXZ-5C42NA

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