

|                   |       |
|-------------------|-------|
| Job Name:         | Date: |
| System Reference: |       |



Outdoor Unit: MXZ-2C20NAHZ2

### ACCESSORIES

The outdoor unit is delivered with the base pan heater factory installed.

- Airflow Guide (PAC-SH96SG-E)
- 3/8" x 1/2" Port Adapter (MAC-A454JP; for use with 15,000 Btu/h Indoor units)
- M-NET Adapter (PAC-IF01MNT-E)

(For data on specific indoor units, see the MXZ-C Technical and Service Manual.)

| Specifications   |                               |                       | Model Name                                  |
|--|-------------------------------|-----------------------|---|
| Unit Type  |                               |                       | MXZ-2C20NAHZ2                               |
| Cooling*<br>(Non-ducted / Ducted)  | Rated Capacity                | Btu/h                 | 18,000 / 20,000                             |
|  | Capacity Range                | Btu/h                 | 6,000 - 20,000                              |
|  | Rated Total Input             | W                     | 1,334 / 1,819                               |
| Heating at 47°F*<br>(Non-ducted / Ducted)  | Rated Capacity                | Btu/h                 | 22,000 / 22,000                             |
|  | Capacity Range                | Btu/h                 | 7,400 - 25,500                              |
|  | Rated Total Input             | W                     | 1,612 / 1,748                               |
| Heating at 17°F*<br>(Non-ducted/Ducted)  | Rated Capacity                | Btu/h                 | 13,700 / 13,700                             |
|  | Maximum Capacity              | Btu/h                 | 22,000 / 22,000                             |
|  | Rated Total Input             | W                     | 1,450 / 1,588                               |
| Heating at 5°F*  | Maximum Capacity              | Btu/h                 | 22,000                                      |
| Energy Star® (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.) |                               |                       | Yes   |
| Electrical Requirements  | Power Supply                  | Voltage, Phase, Hertz | 208 / 230V, 1-Phase, 60 Hz                  |
|  | Recommended Fuse/Breaker Size | A                     | 40  |
|  | MCA                           | A                     | 29.5  |
| Voltage  | Indoor - Outdoor S1-S2        | V                     | AC 208 / 230                                |
|  | Indoor - Outdoor S2-S3        | V                     | DC ±24                                      |
| Compressor   |                               |                       | DC INVERTER-driven Twin Rotary              |
| Fan Motor (ECM)  |                               | F.L.A.                | 2.43  |
| Sound Pressure Level   | Cooling                       | dB(A)                 | 54  |
|  | Heating                       |                       | 58  |
| External Dimensions (H x W x D)  |                               | In / mm               | 41-9/32 x 37-13/32 x 13<br>1048 x 950 x 330 |
| Net Weight   |                               | Lbs / kg              | 187 / 85                                    |
| External Finish  |                               |                       | Munsell No. 3Y 7.8/11                       |
| Refrigerant Pipe Size O.D.   | Liquid (High Pressure)        | In / mm               | 1/4 / 6.35                                  |
|  | Gas (Low Pressure)            |                       | A,B: 3/8 / 9.52                             |
| Max. Refrigerant Line Length   |                               | Ft / m                | 164 / 50                                    |
| 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  |                               |                       | Flared/Flared                               |
| Refrigerant  |                               |                       | R410A                                       |

**\* Rating Conditions per AHRI Standard:**

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

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

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

# SPECIFICATIONS: MXZ-2C20NAHZ2 , contd.

**OPERATING RANGE:**

| Outdoor |  |
|---------|--|
| Cooling | D.B. 14 to 115° F [ D.B. -10 to 46° C]*1 |
| Heating | W.B. -13 to 65° F [ W.B. -25 to 18° C ]  |

\*1. D.B. 5 to 115° F [ D.B. -15 to 46° C ], when an optional Air Outlet Guide is installed.

**ENERGY EFFICIENCIES:**

| Indoor Unit Type             | SEER  | EER   | HSPF | COP @ 47°F | COP @ 17°F |
|------------------------------|-------|-------|------|------------|------------|
| <b>Non-ducted (09 + 09)</b>  | 17.0  | 13.5  | 9.8  | 4.00       | 2.77       |
| <b>Ducted and Non-ducted</b> | 16.00 | 12.25 | 9.65 | 3.85       | 2.65       |
| <b>Ducted (09 + 12)</b>      | 15.0  | 11.0  | 9.5  | 3.69       | 2.53       |

**NOTES:**

- Minimum of two Indoor Units must be connected to the MXZ-2C20NAHZ2.
- Minimum installed capacity cannot be less than 12,000 Btu/h.
- Total connected capacity must not exceed 130% of outdoor unit capacity.
- System can operate with only one Indoor Unit turned on.
- Information provided at 208/230V.
- For Reference:
  - MXZ-C Technical & Service Manual for detailed specifications and additional information per Indoor Unit Combination.
  - MXZ Series Multi-Zone Indoor/Outdoor Combination Table for allowed unit combinations.

**MVZ CONNECTION RULES:**

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

Notes:

# MXZ-2C20NAHZ2 OPERATIONAL PERFORMANCE

## NON-DUCTED:

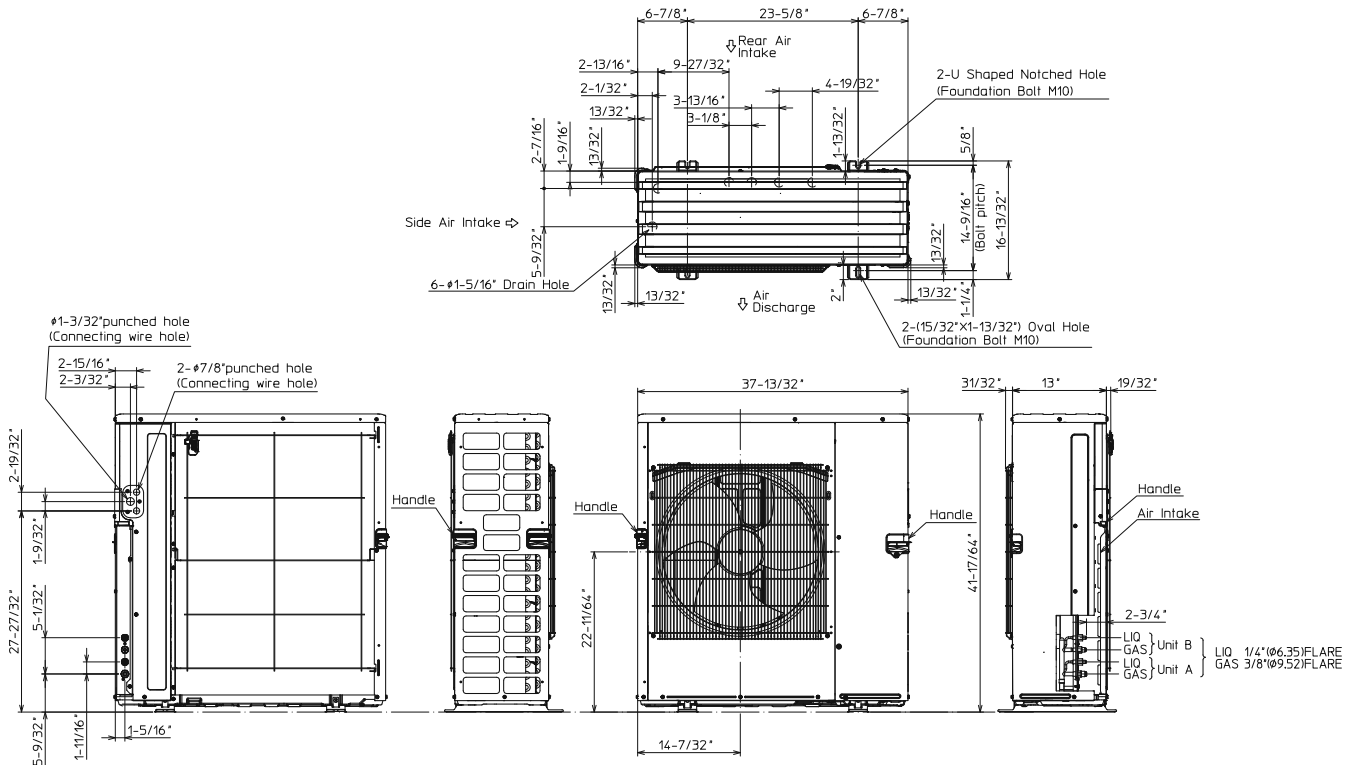
| # of indoor unit | Total Nominal Capacity (x1000 Btu/h) | Total Indoor Unit Capacity (Btu/h) | Operational Performance for Indoor Unit Combinations (Unit A + Unit B + Unit C) | Cooling Capacity Range (Btu/h) |        |        |
|------------------|--------------------------------------|------------------------------------|---|--------------------------------|--------|--------|
|                  |                                      |                                    |   | Heating Capacity Range (Btu/h) |        |        |
|                  |                                      |                                    |   | Unit A                         | Unit B | Unit C |
| 1                | 6                                    | 6,000                              | 6   | 6,000                          | -      | -      |
|                  |                                      | 7,400                              |   | 7,400                          | -      | -      |
| 1                | 9                                    | 9,000                              | 9   | 9,000                          | -      | -      |
|                  |                                      | 11,000                             |   | 11,000                         | -      | -      |
| 1                | 12                                   | 12,000                             | 12  | 12,000                         | -      | -      |
|                  |                                      | 14,400                             |   | 14,400                         | -      | -      |
| 1                | 15                                   | 14,000                             | 15  | 14,000                         | -      | -      |
|                  |                                      | 18,000                             |   | 18,000                         | -      | -      |
| 2                | 12                                   | 12,000                             | 6 + 6   | 6,000                          | 6,000  | -      |
|                  |                                      | 14,800                             |   | 7,400                          | 7,400  | -      |
| 2                | 15                                   | 15,000                             | 6 + 9   | 6,000                          | 9,000  | -      |
|                  |                                      | 18,400                             |   | 7,400                          | 11,000 | -      |
| 2                | 18                                   | 18,000                             | 6 + 12  | 6,000                          | 12,000 | -      |
|                  |                                      | 22,000                             |   | 7,500                          | 14,500 | -      |
| 2                | 18                                   | 18,000                             | 9 + 9   | 9,000                          | 9,000  | -      |
|                  |                                      | 22,000                             |   | 11,000                         | 11,000 | -      |
| 2                | 21                                   | 20,000                             | 6 + 15  | 6,000                          | 14,000 | -      |
|                  |                                      | 22,000                             |   | 6,400                          | 15,600 | -      |
| 2                | 21                                   | 20,000                             | 9 + 12  | 8,600                          | 11,400 | -      |
|                  |                                      | 22,000                             |   | 9,500                          | 12,500 | -      |
| 2                | 24                                   | 20,000                             | 9 + 15  | 7,800                          | 12,200 | -      |
|                  |                                      | 22,000                             |   | 8,300                          | 13,700 | -      |
| 2                | 24                                   | 20,000                             | 12 + 12   | 10,000                         | 10,000 | -      |
|                  |                                      | 22,000                             |   | 11,000                         | 11,000 | -      |

## DUCTED:

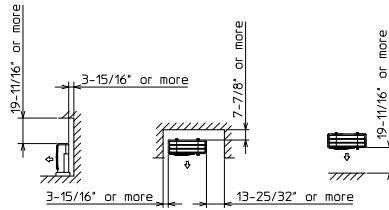
| # of indoor unit | Total Nominal Capacity (x1000 Btu/h) | Total Indoor Unit Capacity (Btu/h) | Operational Performance for Indoor Unit Combinations (Unit A + Unit B + Unit C) | Cooling Capacity Range (Btu/h) |        |        |
|------------------|--------------------------------------|------------------------------------|---|--------------------------------|--------|--------|
|                  |                                      |                                    |   | Heating Capacity Range (Btu/h) |        |        |
|                  |                                      |                                    |   | Unit A                         | Unit B | Unit C |
| 1                | 9                                    | 9,000                              | 9   | 9,000                          | -      | -      |
|                  |                                      | 10,900                             |   | 10,900                         | -      | -      |
| 1                | 12                                   | 12,000                             | 12  | 12,000                         | -      | -      |
|                  |                                      | 13,600                             |   | 13,600                         | -      | -      |
| 1                | 15                                   | 15,000                             | 15  | 15,000                         | -      | -      |
|                  |                                      | 18,000                             |   | 18,000                         | -      | -      |
| 2                | 18                                   | 18,000                             | 9 + 9   | 9,000                          | 9,000  | -      |
|                  |                                      | 21,800                             |   | 10,900                         | 10,900 | -      |
| 2                | 21                                   | 20,000                             | 9 + 12  | 8,600                          | 11,400 | -      |
|                  |                                      | 22,000                             |   | 9,800                          | 12,200 | -      |
| 2                | 24                                   | 20,000                             | 9 + 15  | 7,500                          | 12,500 | -      |
|                  |                                      | 22,000                             |   | 8,300                          | 13,700 | -      |
| 2                | 24                                   | 20,000                             | 12 + 12   | 10,000                         | 10,000 | -      |
|                  |                                      | 22,000                             |   | 11,000                         | 11,000 | -      |

# DIMENSIONS: MXZ-2C20NAHZ2

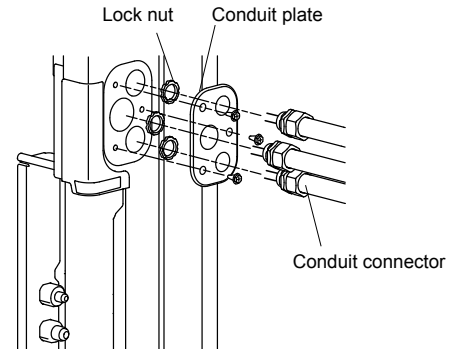
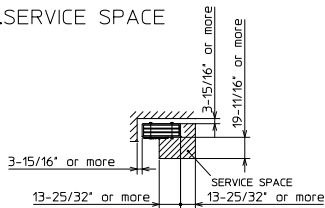
Unit: inch (mm)



## 1. FREE SPACE



## 2. SERVICE SPACE



COOLING & HEATING

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