

**MSZ-FS09NA & MUZ-FS09NA**  
**9,000 BTU/H DELUXE WALL-MOUNTED INDOOR UNIT**  
**9,000 BTU/H HYPER-HEATING OUTDOOR UNIT**



Job Name:

System Reference:

Date:



Indoor Unit.....MSZ-FS09NA

Outdoor Unit.....MUZ-FS09NA

**INDOOR UNIT 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
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- 3D i-see Sensor® enables advance features:
  - Indirect or Direct Airflow for personalized comfort
  - Absence Detection for energy-saving mode
- Double Vane features:
  - Separates airflow to deliver air across a large area
  - Simultaneously deliver to air separate sections of a room
  - Generates more comfortable natural airflow pattern
- Multiple control options available:
  - Back-lit screen handheld remote controller (provided with unit)
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers
- Triple-action Filtration: Nano Platinum Filter, Deodorizing Filter, & Electrostatic Anti-Allergy Enzyme Filter
- Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- Quiet operation

**OUTDOOR UNIT FEATURES**

- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- H2i plus™ performance offers 100% heating capacity at -5° and 70% to 81% heating capacity at -13° F
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

# SPECIFICATIONS: MSZ-FS09NA & MUZ-FS09NA

|   |   |                     |  |
|---|---|---------------------|--|
| Cooling at 95°F <sup>1</sup>            | Maximum Capacity                              | BTU/H               | 12,000   |
|   | Rated Capacity                                | BTU/H               | 9,000  |
|   | Minimum Capacity                              | BTU/H               | 1,700  |
|   | Maximum Power Input                           | W                   | 1,000  |
|   | Rated Power Input                             | W                   | 560  |
|   | Moisture Removal                              | Pints/h             | 0.6  |
|   | Sensible Heat Factor                          |                     | 0.92   |
|   | Power Factor [208V / 230V]                    | %                   | 89.0 / 90.0  |
| Heating at 47°F <sup>2</sup>            | Maximum Capacity                              | BTU/H               | 18,000   |
|   | Rated Capacity                                | BTU/H               | 9,600  |
|   | Minimum Capacity                              | BTU/H               | 1,600  |
|   | Maximum Power Input                           | W                   | 1,740  |
|   | Rated Power Input                             | W                   | 620  |
|   | Power Factor [208V / 230V]                    | %                   | 92.0 / 92.0  |
| Heating at 17°F <sup>3</sup>            | Maximum Capacity                              | BTU/H               | 14,170   |
|   | Rated Capacity                                | BTU/H               | 5,900  |
|   | Maximum Power Input                           | W                   | 1,580  |
|   | Rated Power Input                             | W                   | 450  |
| Heating at 5°F <sup>4</sup>             | Maximum Capacity                              | BTU/H               | 11,590   |
|   | Maximum Power Input                           | W                   | 1,410  |
| Heating at -5°F <sup>6</sup>            | Maximum Capacity                              | BTU/H               | 9,600  |
| Heating at -13°F <sup>7</sup>           | Maximum Capacity                              | BTU/H               | 8,000  |
| Efficiency                              | SEER   SEER2                                  |                     | 30.5   29.8  |
|   | EER <sup>1</sup>   EER2 <sup>1</sup>          |                     | 16.05   16.05  |
|   | HSPF [IV]   HSPF2 [IV]                        |                     | 13.5   10.9  |
|   | COP at 47°F <sup>2</sup>                      |                     | 4.54   |
|   | COP at 17°F at Maximum Capacity <sup>3</sup>  |                     | 2.63   |
|   | COP at 5°F at Maximum Capacity <sup>4</sup>   |                     | 2.2  |
|   | COP at -5°F at Maximum Capacity <sup>6</sup>  |                     | 2.2  |
|   | COP at -13°F at Maximum Capacity <sup>7</sup> |                     | 1.89   |
| Electrical                              | 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  |
|   | Recommended Fuse/Breaker Size (Outdoor)       | A                   | 15   |
|   | Recommended Wire Size [Indoor - Outdoor]      | AWG                 | 14   |
|   | Power Supply                                  |                     | Indoor unit is powered by the outdoor unit             |
| Indoor Unit                             | MCA   | A                   | 1.0  |
|   | Fan Motor Full Load Amperage                  | A                   | 0.65   |
|   | Fan Motor Type                                |                     | DC Motor   |
|   | Airflow Rate at Cooling, Dry                  | CFM                 | 137–167–221–304–381                                    |
|   | Airflow Rate at Cooling, Wet                  | CFM                 | 117–143–190–261–328                                    |
|   | Airflow Rate at Heating, Dry                  | CFM                 | 140–167–225–325–437                                    |
|   | Sound Pressure Level [Cooling]                | dB[A]               | 20–23–29–36–40   |
|   | Sound Pressure Level [Heating]                | dB[A]               | 20–24–29–39–42   |
|   | 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] | 36-7/16 x 9-3/16 x 12 (+11/16) [925 x 234 x 305 (+17)] |
|   | Package Dimensions                            | W x D x H: In. [mm] | 39 x 12-1/4 x 15-1/2 [990 x 310 x 400]                 |
|   | Unit Weight                                   | Lbs. [kg]           | 29 [13.5]  |
|   | Package Weight                                | Lbs. [kg]           | 34 [15.4]  |
| Indoor Unit Operating Temperature Range | Cooling Intake Air Temp [Maximum / Minimum]*  | °F                  | 90 DB, 73 WB / 67 DB, 57 WB                            |
|   | Heating Intake Air Temp [Maximum / Minimum]   | °F                  | 80 DB / 70 DB  |

|   |   |    |                                |
|---|---|----|--------------------------------|
| NOTES:  |   |    |                                |
| AHRI Rated Conditions<br>(Rated data is determined at a fixed compressor speed) | <sup>1</sup> Cooling (Indoor // Outdoor)          | °F | 80 DB, 67 WB // 95 DB, 75 WB   |
|   | <sup>2</sup> Heating at 47°F (Indoor // Outdoor)  | °F | 70 DB, 60 WB // 47 DB, 43 WB   |
|   | <sup>3</sup> Heating at 17°F (Indoor // Outdoor)  | °F | 70 DB, 60 WB // 17 DB, 15 WB   |
| Conditions  | <sup>4</sup> Heating at 5°F (Indoor // Outdoor)   | °F | 70 DB, 60 WB // 5 DB, 4 WB     |
|   | <sup>6</sup> Heating at -5°F (Indoor // Outdoor)  | °F | 70 DB, 60 WB // -5 DB, -6 WB   |
|   | <sup>7</sup> Heating at -13°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -13 DB, -14 WB |

\*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

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

\*\*Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):

- System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

# SPECIFICATIONS: MSZ-FS09NA & MUZ-FS09NA

|  |  |                     |  |
|--|--|---------------------|--|
| Outdoor Unit                             | MCA  | A                   | 10.0                                       |
|  | MOCP   | A                   | 15   |
|  | Fan Motor Full Load Amperage                               | A                   | 0.5  |
|  | Fan Motor Output   | W                   | 55   |
|  | Airflow Rate [Cooling / Heating]                           | CFM                 | 1141 / 1183                                |
|  | Refrigerant Control  |                     | LEV  |
|  | Defrost Method   |                     | Reverse Cycle                              |
|  | Coating on Heat Exchanger                                  |                     | Blue Fin Coating                           |
|  | Sound Pressure Level, Cooling <sup>1</sup>                 | dB(A)               | 48   |
|  | Sound Pressure Level, Heating <sup>2</sup>                 | dB(A)               | 49   |
|  | Compressor Type  |                     | Twin Rotary                                |
|  | Compressor Model   |                     | SNB092FQAMT                                |
|  | Compressor Rated Load Amps                                 | A                   | 9.2  |
|  | Compressor Locked Rotor Amps                               | A                   | 7.4  |
|  | Compressor Oil [Type // Charge]                            | oz.                 | FV50S // 0.35                              |
|  | External Finish Color                                      |                     | Munsell 3Y 7.8/1.1                         |
|  | Base Pan Heater  |                     | Optional                                   |
|  | Unit Dimensions  | W x D x H: In. [mm] | 31-1/2 x 11-1/4 x 21-5/8 [800 x 285 x 550] |
|  | Package Dimensions   | W x D x H: In. [mm] | 37 x 15 x 24-1/2 [940 x 380 x 630]         |
|  | Unit Weight  | Lbs. [kg]           | 82 [37]                                    |
|  | Package Weight   | Lbs. [kg]           | 89 [40]                                    |
| Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]*                      | °F                  | 115 DB / 14 DB                             |
|  | Cooling Thermal Lock-out / Re-start Temperatures**         | °F                  | -4 / 0                                     |
|  | Heating Air Temp [Maximum / Minimum]                       | °F                  | 75 DB, 65 WB / -13 DB, -14 WB              |
|  | Heating Thermal Lock-out / Re-start Temperatures**         | °F                  | -18 / -14                                  |
| Refrigerant                              | Type   |                     | R410A                                      |
|  | Pre-Charged Refrigerant Amount                             | Lbs, oz             | 2.0, 9.0                                   |
|  | Maximum Pre-Charged Piping Length                          | Ft. [m]             | 25.0 [7.5]                                 |
|  | Additional Refrigerant Charge Per Additional Piping Length | oz./Ft. [g/m]       | 0.216 [20]                                 |
| Piping                                   | Gas Pipe Size O.D. [Flared]                                | In.[mm]             | 3/8 [9.52]                                 |
|  | Liquid Pipe Size O.D. [Flared]                             | In.[mm]             | 1/4 [6.35]                                 |
|  | Maximum Piping Length                                      | Ft. [m]             | 65 [20]                                    |
|  | Maximum Height Difference                                  | Ft. [m]             | 40 [12]                                    |
|  | Maximum Number of Bends                                    |                     | 10   |

## NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)

|  |    |                              |
|--|----|------------------------------|
| <sup>1</sup> Cooling (Indoor // Outdoor)         | °F | 80 DB, 67 WB // 95 DB, 75 WB |
| <sup>2</sup> Heating at 47°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 47 DB, 43 WB |
| <sup>3</sup> Heating at 17°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // 17 DB, 15 WB |

Conditions

|   |    |                                |
|---|----|--------------------------------|
| <sup>4</sup> Heating at 5°F (Indoor // Outdoor)   | °F | 70 DB, 60 WB // 5 DB, 4 WB     |
| <sup>6</sup> Heating at -5°F (Indoor // Outdoor)  | °F | 70 DB, 60 WB // -5 DB, -6 WB   |
| <sup>7</sup> Heating at -13°F (Indoor // Outdoor) | °F | 70 DB, 60 WB // -13 DB, -14 WB |

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## INDOOR UNIT ACCESSORIES: MSZ-FS09NA

|                            |   |                   |
|----------------------------|---|-------------------|
| 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 humidity sensor for kumo cloud®                                    | PAC-USWHS003-TH-1 |
| Wired Remote Controller    | Deluxe Wired MA Remote Controller†  | PAR-40MAAU        |
|                            | Simple Ductless Wired Remote Controller   | PAC-SDW01RC-1     |
|                            | Simple MA Remote Controller†  | PAC-YT53CRAU-J    |
|                            | Touch MA Controller†  | PAR-CT01MAU-SB    |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller  | MHK2              |
|                            | Lockdown bracket for remote controller  | RCMKP1CB          |
| Condensate                 | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | X87-721           |
|                            | Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H             | X86-003           |
|                            | Blue Diamond Alarm Extension Cable — 6.5 Ft.  | C13-192           |
|                            | 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                                     | COMBI             |
|                            | 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        |
| Filter                     | Electro Static Anti-allergy Enzyme Filter   | MAC-2330FT-E      |
|                            | Platinum Deodorizing Filter   | MAC-3000FT-E      |
| Lineset                    | 15' x 1/4" x 15' / 3/8" Lineset (Twin-Tube Insulation)                                      | MLS143812T-15     |
|                            | 30' x 1/4" x 30' / 3/8" Lineset (Twin-Tube Insulation)                                      | MLS143812T-30     |
|                            | 50' x 1/4" x 50' / 3/8" Lineset (Twin-Tube Insulation)                                      | MLS143812T-50     |
|                            | 65' x 1/4" x 65' / 3/8" Lineset (Twin-Tube Insulation)                                      | MLS143812T-65     |

### NOTES:

†Requires MAC-334IF-E

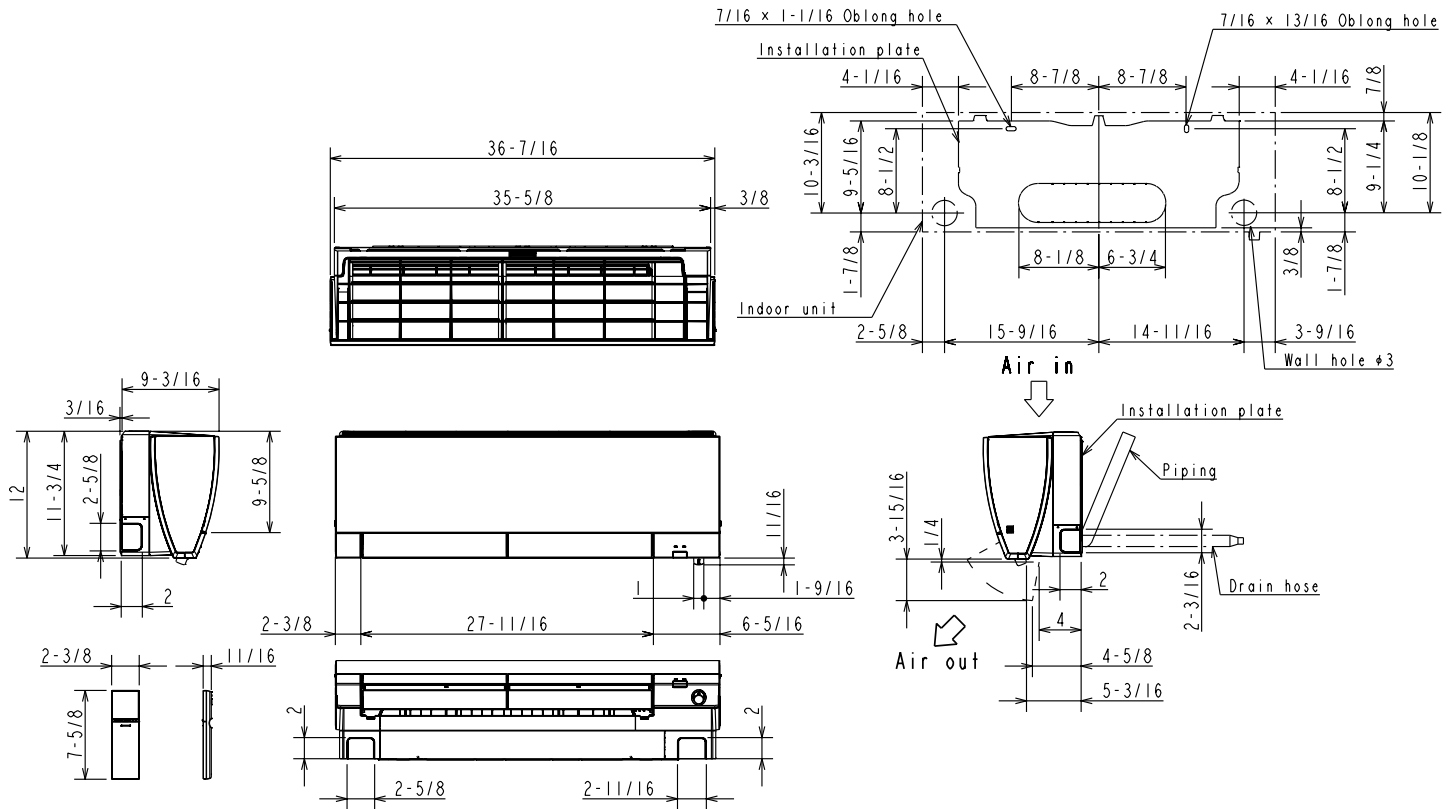
- M-Series EZ FIT® Recessed Ceiling Cassette, Floor-mount and Wall-mount  
Allows indoor units to connect to an MA Controller:  
Deluxe MA Remote Controller  
Simple MA Controller  
Touch MA Controller

## OUTDOOR UNIT ACCESSORIES: MUZ-FS09NA

|                         |  |             |
|-------------------------|--|-------------|
| Control/Service Tool    | M- & P-Series Maintenance Tool Cable Set                       | M21EC0397   |
|                         | USB/UART Conversion Cable (Required for all laptop connection) | M21EC1397   |
| Drain Socket            | Drain Socket   | MAC-871DS   |
| Hail Guards             | Hail Guard   | HG-B4       |
| Mini-Split Wire         | 14 Gauge, 4 wire MiniSplit Cable—250 ft. roll                  | S144-250    |
|                         | 14 Gauge, 4 wire MiniSplit Cable—50 ft. roll                   | S144-50     |
|                         | 16 Gauge, 4 wire MiniSplit Cable—250 ft. roll                  | S164-250    |
|                         | 16 Gauge, 4 wire MiniSplit Cable—50 ft. roll                   | S164-50     |
| Mounting Pad            | Condensing Unit Mounting Pad: 16" x 36" x 3"                   | ULTRILITE1  |
|                         | Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic         | DSD-400P    |
| Optional Defrost Heater | Optional Defrost Heater  | MAC-640BH-U |
| 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   |

# INDOOR UNIT DIMENSIONS: MSZ-FS09NA

Unit: inch



(06/09/12 KBTU/H)

|            |             |  |
|------------|-------------|--|
| Piping     | Insulation  | Insulation #1-7/16 O.D.                |
|            | Liquid line | #1/4 19-11/16 (Flared connection #1/4) |
|            | Gas line    | #3/8 16-15/16 (Flared connection #3/8) |
| Drain hose | Insulation  | #1-1/8 Connected part #5/8 O.D.        |

(15/18 KBTU/H)

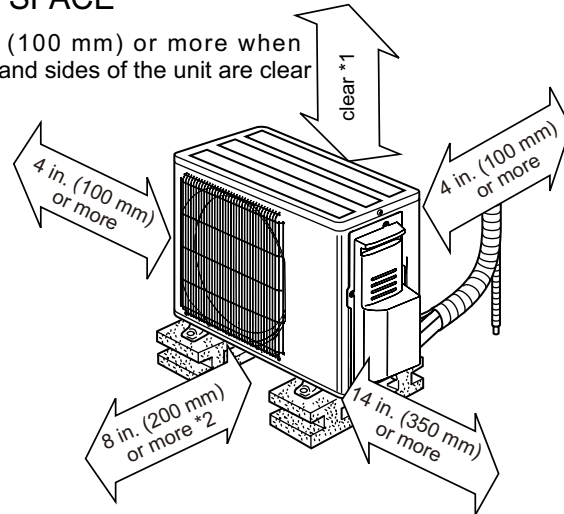
|            |             |  |
|------------|-------------|--|
| Piping     | Insulation  | Insulation #1-7/16 O.D.                |
|            | Liquid line | #1/4 19-11/16 (Flared connection #1/4) |
|            | Gas line    | #3/8 16-15/16 (Flared connection #1/2) |
| Drain hose | Insulation  | #1-1/8 Connected part #5/8 O.D.        |

# OUTDOOR UNIT DIMENSIONS: MUZ-FS09NA

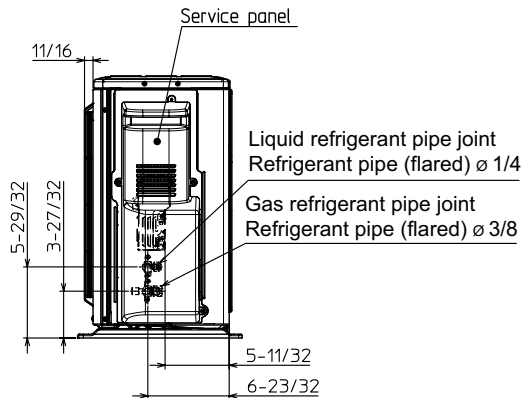
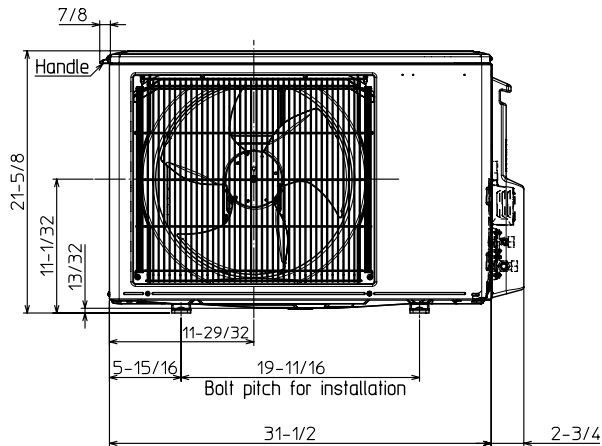
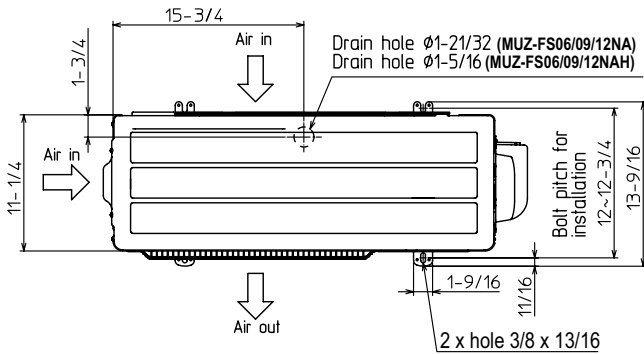
Unit: inch

## REQUIRED SPACE

\*1 4 in. (100 mm) or more when front and sides of the unit are clear



\*2 When any 2 sides of left, right and rear of the unit are clear



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FORM# MSZ-FS09NA & MUZ-FS09NA - 202304

