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

| Indoor Unit: MSZ-FH15NA | Outdoor Unit: MUZ-FH15NA | Wireless Remote Controller |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
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GENERAL FEATURES

- Slim wall-mounted indoor units provide zone comfort control.
- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns.
- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- H2i[®] hyper heat performance offers 100% heating capacity at 5°F and 70% to 81% heating capacity at -13°F
- 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 air to two people in different locations
 - Generates more comfortable natural airflow pattern
- Multiple control options available:
 - Hand-held 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
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life

SPECIFICATIONS: MSZ-FH15NA & MUZ-FH15NA

| | | | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------|
| Cooling ¹ | Maximum Capacity | BTU/H | 19,000 |
| | Rated Capacity | BTU/H | 15,000 |
| | Minimum Capacity | BTU/H | 6,450 |
| | Maximum Power Input | W | 2,200 |
| | Rated Power Input | W | 1,200 |
| | Moisture Removal | Pints/h | 4.0 |
| | Sensible Heat Factor | | 0.70 |
| | Power Factor | % | 97 / 97 |
| Heating at 47°F ² | Maximum Capacity | BTU/H | 24,000 |
| | Rated Capacity | BTU/H | 18,000 |
| | Minimum Capacity | BTU/H | 5,150 |
| | Maximum Power Input | W | 3,360 |
| | Rated Power Input | W | 1,300 |
| | Power Factor | % | 97 / 97 |
| Heating at 17°F ³ | Maximum Capacity | BTU/H | 18,000 |
| | Rated Capacity | BTU/H | 11,000 |
| | Maximum Power Input | W | 2,480 |
| | Rated Power Input | W | 1,020 |
| Heating at 5°F ⁴ | Maximum Capacity | BTU/H | 18,000 |
| | Maximum Power Input | W | 2,950 |
| Heating at -4°F ⁵ | Maximum Capacity | BTU/H | 16,200 |
| Heating at -13°F ⁶ | Maximum Capacity | BTU/H | 14,580 |
| Efficiency | SEER | | 22.0 |
| | EER ¹ | | 12.5 |
| | HSPF (IV) | | 12.0 |
| | COP at 47°F ² | | 4.06 |
| | COP at 17°F in Maximum Capacity ³ | | 2.13 |
| | COP at 5°F in Maximum Capacity ⁴ | | 1.79 |
| | ENERGY STAR [®] certified units (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.) | | YES |
| Electrical | Voltage, Phase, Frequency | | 208/230V, 1 phase, 60Hz |
| | 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 | 20 |
| | Recommended Wire Size (Indoor - Outdoor) | AWG | 14 |
| Indoor Unit | MCA | A | 1 |
| | MOCP | A | 20 |
| | Blower Motor Full Load Amperage | A | 0.67 |
| | Blower Motor Output | W | 30 |

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|-----------------------------------------|----------------------------------------------|-------------|-----------------------------|---------------|
| | Airflow Rate at Cooling, Dry | CFM | 411-355-304-262-225 | |
| | Airflow Rate at Cooling, Wet | CFM | 354-305-261-225-194 | |
| | Airflow Rate at Heating, Dry | CFM | 497-394-317-254-201 | |
| | Sound Pressure Level (Cooling) | dB(A) | 44-39-35-31-27 | |
| | Sound Pressure Level (Heating) | dB(A) | 46-39-34-29-25 | |
| | Drain Pipe Size | In. (mm) | 5/8 (15.88) | |
| | Heat Exchanger Type | | Plate fin coil | |
| | External Finish Color | | Munsell 1.0Y 9.2/0.2 | |
| | Unit Dimensions | W: In. (mm) | 36-7/16 [925] | |
| | | D: In. (mm) | 9-3/16 (234) | |
| | | H: In. (mm) | 12 [+11/16] (305 [+17]) | |
| | Package Dimensions | W: In. (mm) | 39 (990) | |
| | | D: In. (mm) | 12-1/4 (310) | |
| | | H: In. (mm) | 12-3/16 (310) | |
| | 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 | |
| Outdoor Unit | MCA | A | 16 | |
| | MOCP | A | 20 | |
| | Fan Motor Full Load Amperage | A | 0.93 | |
| | Fan Motor Output | W | 77 | |
| | Airflow Rate | CFM | 1,692 / 1,634 | |
| | Refrigerant Control | | LEV | |
| | Defrost Method | | Reverse cycle | |
| | Heat Exchanger Type | | Plate fin coil | |
| | Sound Pressure Level, Cooling ¹ | dB(A) | 51 | |
| | Sound Pressure Level, Heating ² | dB(A) | 55 | |
| | Compressor Type | | DC INVERTER-driven | |
| | Compressor Model | | SNB172FQKMT | |
| | Compressor Rated Load Amps | A | 12.0 | |
| | Compressor Locked Rotor Amps | A | 15.0 | |
| | Compressor Oil Type // Charge | oz. | FV50S // 13.5 | |
| | External Finish Color | | Munsell 3Y 7.8/1/1 | |
| | Base Pan Heater | | Optional | |
| | Unit Dimensions | W: In. (mm) | | 33-1/16 (840) |
| | | D: In. (mm) | | 13 (330) |
| | | H: In. (mm) | | 34-5/8 [880] |
| Package Dimensions | W: In. (mm) | | 38-9/16 (980) | |
| | D: In. (mm) | | 16-9/16 (420) | |
| | H: In. (mm) | | 39 (990) | |

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|------------------------------------------|----------------------------------------------------|-----------|------------|
| | Unit Weight | Lbs. (kg) | 124 (56) |
| | Package Weight | Lbs. (kg) | 143 (65) |
| Outdoor Unit Operating Temperature Range | Cooling Air Temp (Maximum / Minimum)* | °F | 115 / 14 |
| | Cooling Thermal Lock-out / Re-start Temperatures** | °F | -4 / 0 |
| | Heating Air Temp (Maximum / Minimum) | °F | 75 / -13 |
| | Heating Thermal Lock-out / Re-start Temperatures** | °F | -18 / -14 |
| Refrigerant | Type | | R410A |
| | Charge | Lbs, oz | 3, 7 |
| Piping | Gas Pipe Size O.D. (Flared) | In. (mm) | 1/2 (12.7) |
| | Liquid Pipe Size O.D. (Flared) | In. (mm) | 1/4 (6.35) |
| | Maximum Piping Length | Ft. (m) | 100 (30) |
| | Maximum Height Difference | Ft. (m) | 50 (15) |
| | Maximum Number of Bends | | 10 |

Notes

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

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

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

ACCESSORIES: MSZ-FH15NA

| | |
|-------------------------------------------------------------------------------------------------------------------|-------------------------|
| Deodorizing Filter | □ MAC-3000FT-E |
| Electrostatic Anti-allergy Enzyme Filter | □ MAC-2330FT-E |
| kumo touch™ RedLINK™ Wireless Controller | □ MHK2 |
| Deluxe MA Remote Controller ¹ | □ PAR-40MAAU |
| Simple MA Controller ¹ | □ PAC-YT53CRAU-J |
| Touch MA Controller ¹ | □ PAR-CT01MAU-SB |
| Wired Remote Sensor | □ M21-EAA-307 |
| Wireless Temperature and Humidity Sensor | □ PAC-USWHS003-TH-1 |
| System Control Interface ² | □ MAC-334IF-E |
| Wireless Interface 2 | □ PAC-USWHS002-WF-2 |
| Thermostat Interface | □ PAC-US444CN-1 |
| kumo station® | □ PAC-WHS01HC-E |
| USNAP Interface | □ PAC-WHS01UP-E |
| IT Extender | □ PAC-WHS01IE-E |
| BACnet® and MODBUS® Interface | □ PAC-UKPRC001-CN-1 |
| External Fan / Heater Control Relay Adapter | □ CN24RELAY-KIT-CM3 |
| Lockdown Bracket for Hand-held Remote Controllers | □ RCMKP1CB |
| Blue Diamond Sensor Extension Cable — 15 Ft. | □ C13-103 |
| Blue Diamond Alarm Extension Cable — 6.5 Ft. | □ C13-192 |
| Blue Diamond MultiTank — collection tank for use with multiple pumps | □ C21-014 |
| Blue Diamond Rubber Foot Pads | □ F10-010 |
| Mini Condensate Pump — 230 volt application | □ SI30-230 |
| MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor | □ X87-835 - 110 to 250V |
| MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended] | □ X87-711 - 110V |
| Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | □ X87-721 - 208/230V |
| MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H | □ X85-003 |
| Fascia Kit for MicroBlue Pump – mounts the MicroBlue and sensor directly beneath the indoor unit | □ T18-016 |
| Drain Pan Level Sensor | □ SS610E |
| (30A/600V/UL) [fits 2" X 4" utility box] - Black | □ TAZ-MS303 |
| (30A/600V/UL) [fits 2" X 4" utility box] - White | □ TAZ-MS303W |

¹ Requires MAC-334IF-E

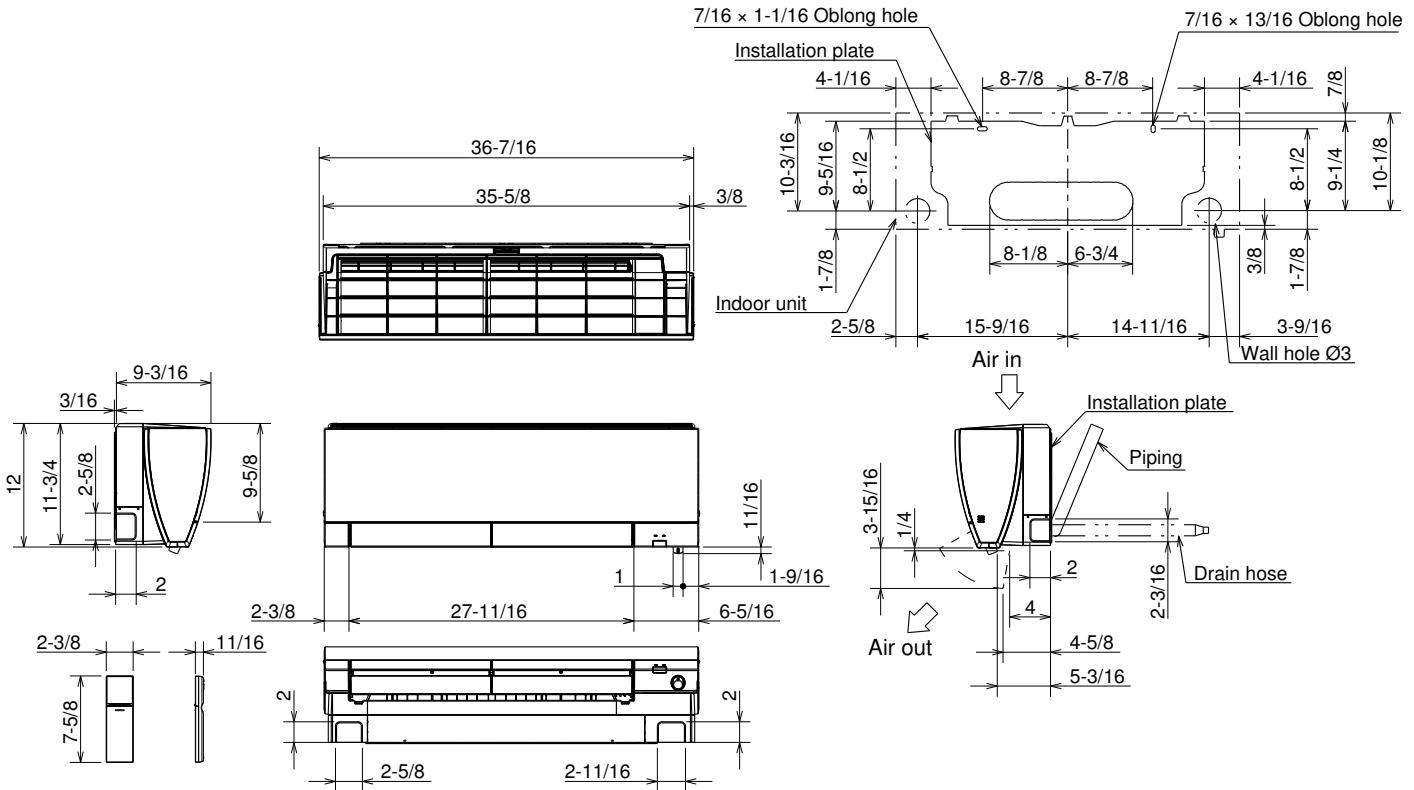
² Allows indoor units to connect to an MA Controller

ACCESSORIES: MUZ-FH15NA

| | |
|---------------------------------------------------------------|-----------------------------------------|
| Air Outlet Guide | <input type="checkbox"/> MAC-886SG-E |
| Drain Socket | <input type="checkbox"/> MAC-860DS |
| Optional Defrost Heater | <input type="checkbox"/> MAC-642BH-U1 |
| Hail Guard | <input type="checkbox"/> HG-A7 |
| Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic | <input type="checkbox"/> DSD-400P |
| Condensing Unit Mounting Pad 16" x 36" x 3" | <input type="checkbox"/> ULTRILITE1 |
| Outdoor Unit Stand — 12" High | <input type="checkbox"/> QSMS1201M |
| Outdoor Unit Stand — 18" High | <input type="checkbox"/> QSMS1801M |
| Outdoor Unit Stand — 24" High | <input type="checkbox"/> QSMS2401M |
| Heavy Duty Wall Mounting Bracket— Coated Steel | <input type="checkbox"/> QSWB2000M-1 |
| Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel | <input type="checkbox"/> QSWBSS |
| 15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-15 |
| 30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-30 |
| 50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-50 |
| 65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-65 |
| 100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation) | <input type="checkbox"/> MLS141212T-100 |

DIMENSIONS: MSZ-FH15NA

Unit: inch



(Capacities in kBtu/h: 06, 09,12)

| | | |
|--------|-------------|-------------------------------------------|
| Piping | Insulation | Ø1-7/16 O.D |
| | Liquid line | Ø1/4 19-11/16 (Flared connection Ø1/4) |
| | Gas line | Ø3/8 16-15/16 (Flared connection Ø3/8) |
| | Drain hose | Insulation Ø1-1/8 Connected part Ø5/8 O.D |

(Capacities in kBtu/h: 15, 18)

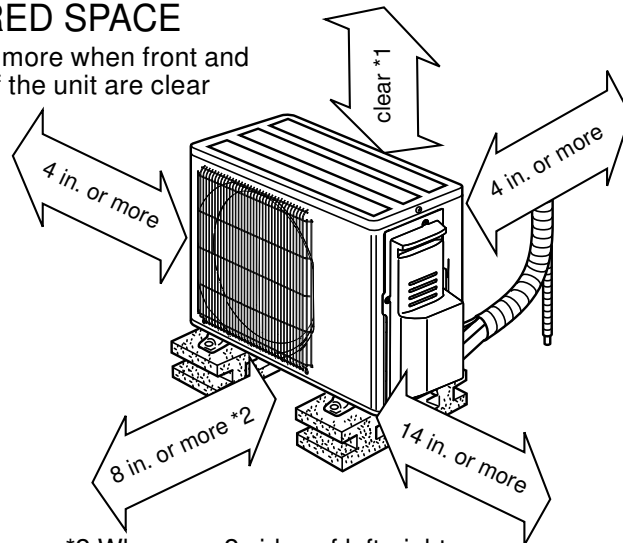
| | | |
|--------|-------------|-------------------------------------------|
| Piping | Insulation | Ø1-7/16 O.D |
| | Liquid line | Ø1/4 19-11/16 (Flared connection Ø1/4) |
| | Gas line | Ø3/8 16-15/16 (Flared connection Ø1/2) |
| | Drain hose | Insulation Ø1-1/8 Connected part Ø5/8 O.D |

DIMENSIONS: MUZ-FH15NA

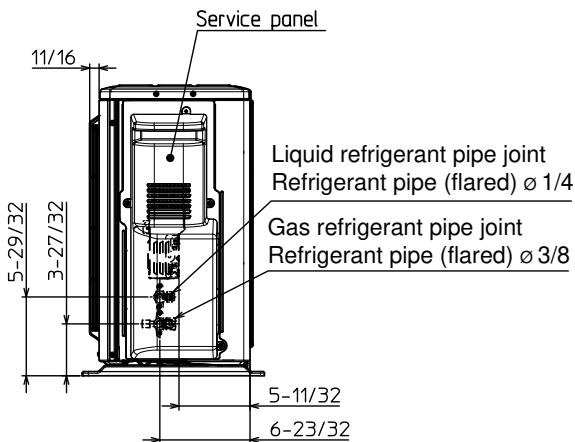
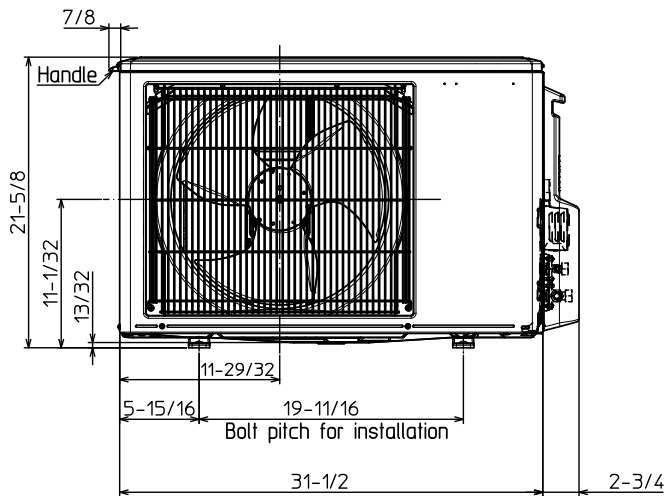
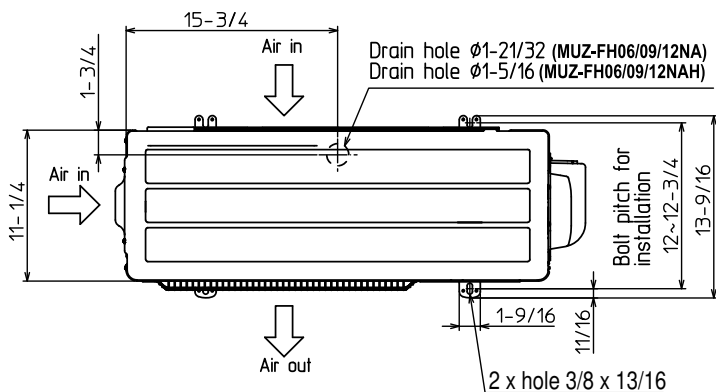
Unit: inch

REQUIRED SPACE

*1 4 in. 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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