

**MSZ-GS12NA & MUZ-GS12NA**  
**12,000 BTU/H WALL-MOUNTED INDOOR UNIT**  
**12,000 BTU/H HEAT PUMP OUTDOOR UNIT**



Job Name:

System Reference:

Date:



Indoor Unit.....MSZ-GS12NA

Outdoor Unit.....MUZ-GS12NA

**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
- Optional Microparticle Filter designed to capture PM2.5
- The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- Quiet operation
- Smart Set: recalls a preferred preset temperature setting at the touch of a button
- Built-in backup/auxiliary heater control available
- Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto
- Multiple control options available:
  - Back-lit screen handheld remote controller (provided with the unit)
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers

**OUTDOOR UNIT FEATURES**

- INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life
  - Rated for 2,000 hours spraying time per ASTM B117 Standard

# SPECIFICATIONS: MSZ-GS12NA & MUZ-GS12NA

|   |  |                     |  |
|---|--|---------------------|--|
| Cooling at 95°F <sup>1</sup>            | Maximum Capacity                             | BTU/H               | 13,600                                     |
|   | Rated Capacity                               | BTU/H               | 12,000                                     |
|   | Minimum Capacity                             | BTU/H               | 1,500                                      |
|   | Maximum Power Input                          | W                   | 1,450                                      |
|   | Rated Power Input                            | W                   | 920  |
|   | Moisture Removal                             | Pints/h             | 2.5  |
|   | Sensible Heat Factor                         |                     | 0.77                                       |
| Heating at 47°F <sup>2</sup>            | Power Factor [208V / 230V]                   | %                   | 95.0 / 95.0                                |
|   | Maximum Capacity                             | BTU/H               | 18,100                                     |
|   | Rated Capacity                               | BTU/H               | 14,400                                     |
|   | Minimum Capacity                             | BTU/H               | 2,000                                      |
|   | Maximum Power Input                          | W                   | 1,750                                      |
|   | Rated Power Input                            | W                   | 1,100                                      |
| Heating at 17°F <sup>3</sup>            | Power Factor [208V / 230V]                   | %                   | 97.0 / 97.0                                |
|   | Maximum Capacity                             | BTU/H               | 12,000                                     |
|   | Rated Capacity                               | BTU/H               | 9,000                                      |
|   | Maximum Power Input                          | W                   | 1,670                                      |
|   | Rated Power Input                            | W                   | 1,000                                      |
| Heating at 5°F <sup>4</sup>             | Maximum Capacity                             | BTU/H               | 9,540                                      |
|   | Maximum Power Input                          | W                   | 1,540                                      |
| Efficiency                              | SEER   SEER2                                 |                     | 23.1   25.6                                |
|   | EER <sup>1</sup>   EER2 <sup>1</sup>         |                     | 13.05   13.05                              |
|   | HSPF [IV]   HSPF2 [IV]                       |                     | 13.2   10.7                                |
|   | COP at 47°F <sup>2</sup>                     |                     | 3.84                                       |
|   | COP at 17°F at Maximum Capacity <sup>3</sup> |                     | 2.11                                       |
|   | COP at 5°F at Maximum Capacity <sup>4</sup>  |                     | 1.82                                       |
| Electrical                              | ENERGY STAR® Certified                       |                     | Yes  |
|   | 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   |
| Indoor Unit                             | Power Supply                                 |                     | Indoor unit is powered by the outdoor unit |
|   | MCA  | A                   | 1.0  |
|   | Fan Motor Full Load Amperage                 | A                   | 0.75                                       |
|   | Fan Motor Output                             | W                   | 30   |
|   | Airflow Rate at Cooling, Dry                 | CFM                 | 134–160–222–307–381                        |
|   | Airflow Rate at Cooling, Wet                 | CFM                 | 121–144–200–276–343                        |
|   | Airflow Rate at Heating, Dry                 | CFM                 | 134–160–222–307–390                        |
|   | Sound Pressure Level [Cooling]               | dB[A]               | 19–22–30–37–45                             |
|   | Sound Pressure Level [Heating]               | dB[A]               | 19–22–30–37–43                             |
|   | 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] | 31-7/16 x 9-1/8 x 11-5/8 [798 x 232 x 295] |
|   | Package Dimensions                           | W x D x H: In. [mm] | 33-1/2 x 12 x 14 [850 x 300 x 350]         |
|   | Unit Weight                                  | Lbs. [kg]           | 23 [10.4]                                  |
|   | Package Weight                               | Lbs. [kg]           | 26 [11.5]                                  |
| 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  
 (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>5</sup> Heating at -4°F (Indoor // Outdoor)  | °F | 70 DB, 60 WB // -4 DB, -5 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-GS12NA & MUZ-GS12NA

|  |  |                     |  |
|--|--|---------------------|--|
| Outdoor Unit                             | MCA  | A                   | 10.0                                       |
|  | MOCP   | A                   | 15   |
|  | Fan Motor Full Load Amperage                               | A                   | 0.5  |
|  | Fan Motor Output   | W                   | 55   |
|  | Refrigerant Control  |                     | Linear expansion valve                     |
|  | Defrost Method   |                     | N/A  |
|  | Sound Pressure Level, Cooling <sup>1</sup>                 | dB(A)               | 49   |
|  | Sound Pressure Level, Heating <sup>2</sup>                 | dB(A)               | 51   |
|  | Compressor Type  |                     | DC inverter driven Twin Rotary             |
|  | Compressor Model   |                     | SNB092FQAMT                                |
|  | Compressor Rated Load Amps                                 | A                   | 6.72                                       |
|  | Compressor Locked Rotor Amps                               | A                   | 8.4  |
|  | 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 [980 x 380 x 630]         |
|  | Unit Weight  | Lbs. [kg]           | 79 [35.8]                                  |
|  | Package Weight   | Lbs. [kg]           | 87 [39.2]                                  |
| 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 / -4 DB, -5 WB                |
|  | Heating Thermal Lock-out / Re-start Temperatures**         | °F                  | -14 / -4                                   |
| 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]       | 1.08 [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>5</sup>Heating at -4°F (Indoor // Outdoor) °F 70 DB, 60 WB // -4 DB, -5 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.

## INDOOR UNIT ACCESSORIES: MSZ-GS12NA

|                            |   |                   |
|----------------------------|---|-------------------|
| Control Interface          | CN24 Relay Kit  | CN24RELAY-KIT-CM3 |
|                            | IT Extender   | PAC-WHS01IE-E     |
|                            | kumo station® for kumo cloud®   | PAC-WHS01HC-E     |
|                            | Procon BACnet® and Modbus® Interface  | PAC-UKPRC001-CN-1 |
|                            | System Control Interface  | MAC-334IF-E       |
|                            | 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 (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor                      | X87-835           |
|                            | 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                     | Anti-allergy Enzyme Filter  | MAC-408FT-E       |
|                            | Microparticle (PM2.5) Filter  | MAC-EMF515FT-E    |

**NOTES:**

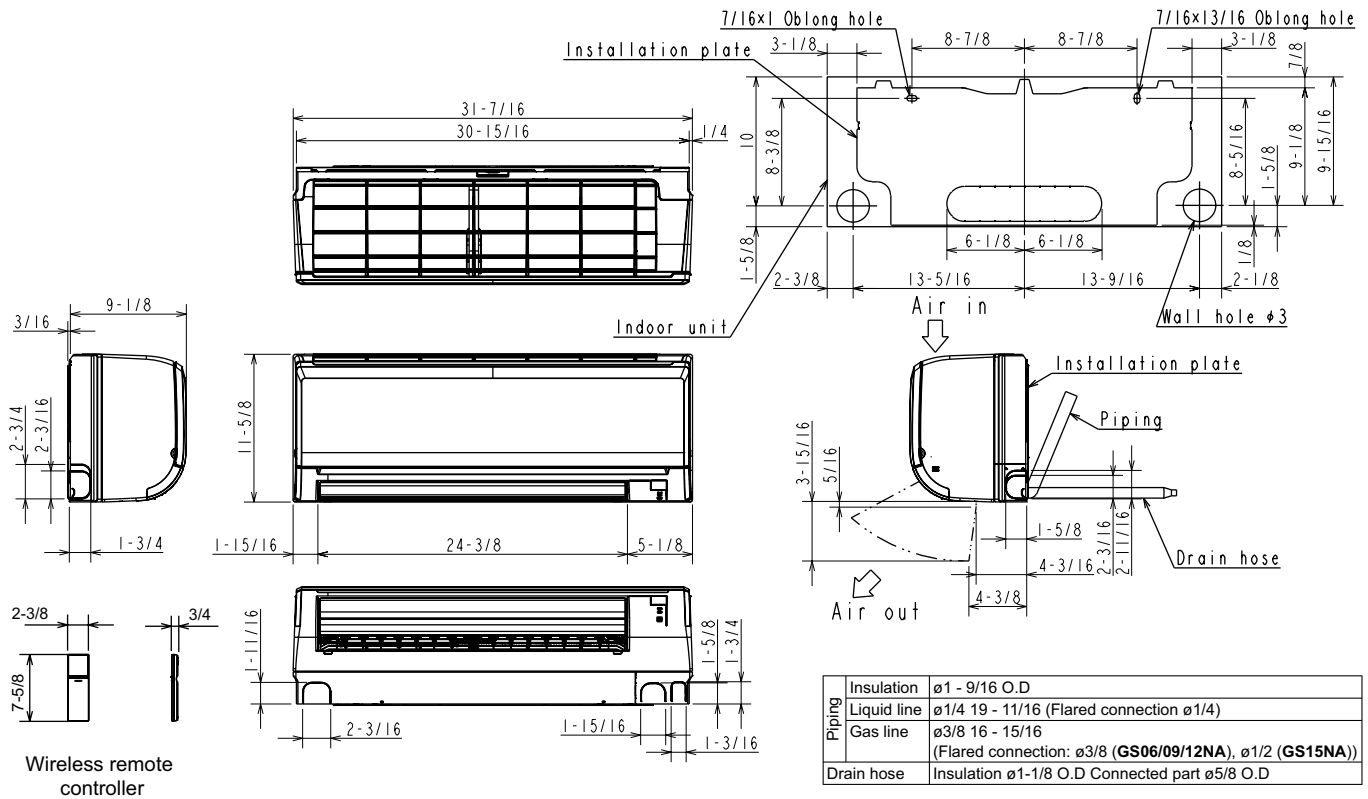
†PAC-SF40RM-E (Unable to use with wireless remote controller)

## OUTDOOR UNIT ACCESSORIES: MUZ-GS12NA

|                         |  |               |
|-------------------------|--|---------------|
| Hail Guards             | Hail Guard   | HG-B4         |
| 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 |
| 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-GS12NA

Unit: inch

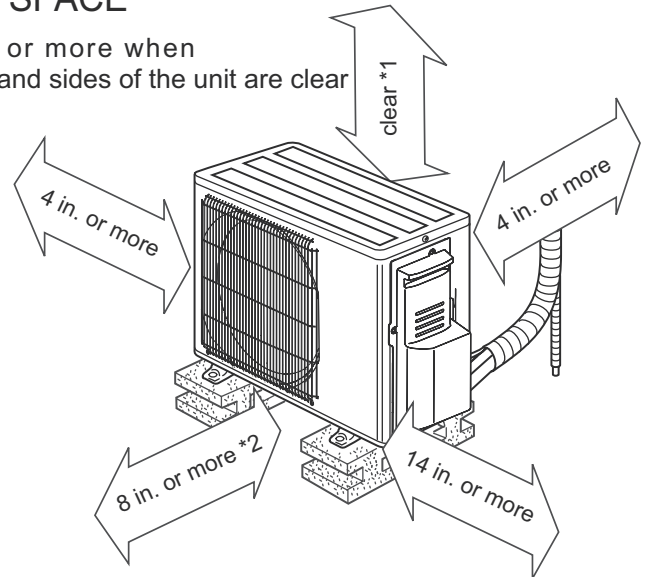


# OUTDOOR UNIT DIMENSIONS: MUZ-GS12NA

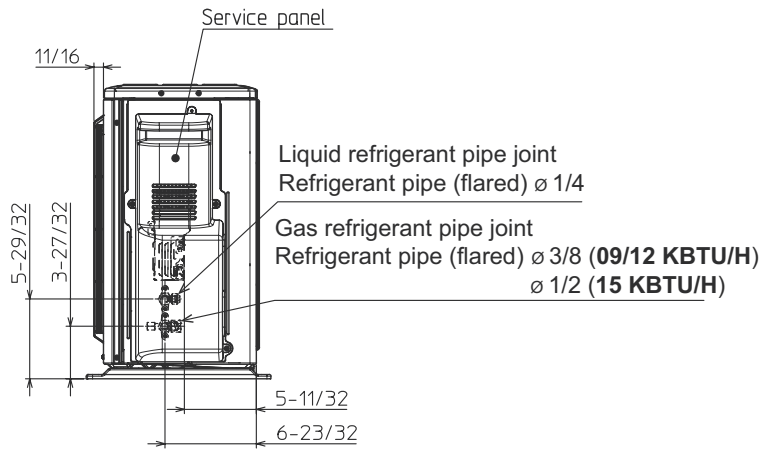
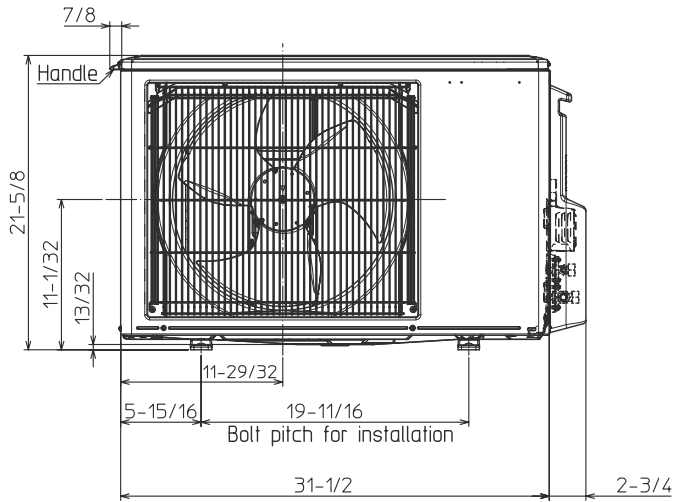
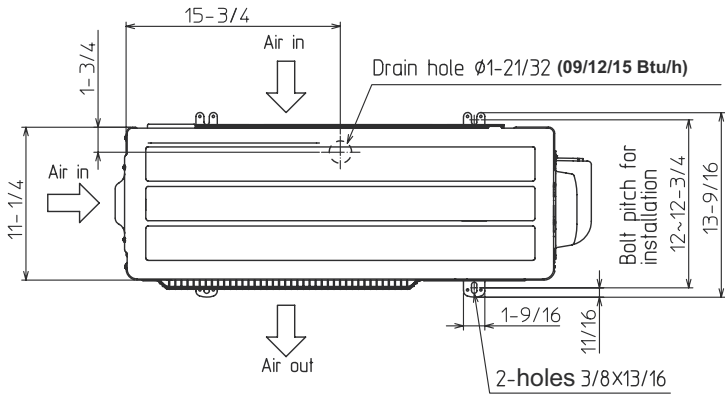
Unit: inch

## 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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FORM# MSZ-GS12NA & MUZ-GS12NA - 202311

