

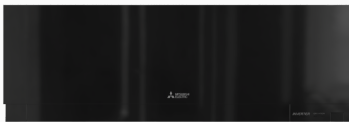
MSZ-EX09NLB & SUZ-AA09NLHZ  
9,000 BTU/H WALL-MOUNTED INDOOR UNIT  
9,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... MSZ-EX09NLB  
OUTDOOR Unit ... SUZ-AA09NLHZ

#### INDOOR UNIT FEATURES

- Econo Cool: Econo Cool is feature that temporarily adjusts the airflow to maintain comfort while using less energy.
- Swing Mode: An indoor unit with this capability can move air throughout the room like an oscillating fan.
- Smart Set: Smart Set conveniently adjusts to the preferred preset temperature by pressing a single button on the remote control.
- Dual Barrier Coating: Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the indoor unit.
- Quiet: Outdoor units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Electrostatic Enzyme Filter (Built-In): Charged with static electricity, the Electrostatic filter is designed to attract and filter charged particles which can include airborne non-living particulates.

#### OUTDOOR UNIT FEATURES

- H2i® Hyper-Heating: 100% heating capacity down to 5° F .
- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Blue Fin Coating: Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- Base Pan Heater: This advanced base pan heater helps to prevent interrupted operation due to water freezing after a defrost cycle, ensuring your warmth and comfort during colder weather.
- Seacoast Protection: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.

# SPECIFICATIONS: MSZ-EX09NLB & SUZ-AA09NLHZ

|                              |                                               |                                     |                                                 |
|------------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------------------|
| Cooling at 95F <sup>1</sup>  | Maximum Capacity                              | Btu/h                               | 9000                                            |
|                              | Rated Capacity                                | Btu/h                               | 9000                                            |
|                              | Minimum Capacity                              | Btu/h                               | 4800                                            |
|                              | Maximum Power Input                           | W                                   | 710                                             |
|                              | Rated Power Input                             | W                                   | 710                                             |
|                              | Moisture Removal                              | Pints/h                             | 0.30                                            |
|                              | Sensible Heat Factor                          |                                     | 0.96                                            |
| Heating at 47F <sup>2</sup>  | Power Factor [208V / 230V]                    | %                                   | 91 / 91                                         |
|                              | Maximum Capacity                              | Btu/h                               | 15000                                           |
|                              | Rated Capacity                                | Btu/h                               | 12000                                           |
|                              | Minimum Capacity                              | Btu/h                               | 8300                                            |
|                              | Maximum Power Input                           | W                                   | 1160                                            |
|                              | Rated Power Input                             | W                                   | 900                                             |
|                              | Power Factor [208V / 230V]                    | %                                   | 94 / 94                                         |
| Heating at 17F <sup>3</sup>  | Maximum Capacity                              | Btu/h                               | 12000                                           |
|                              | Rated Capacity                                | Btu/h                               | 7300                                            |
|                              | Maximum Power Input                           | W                                   | 1250                                            |
|                              | Rated Power Input                             | W                                   | 860                                             |
| Heating at 5F <sup>5</sup>   | Maximum Capacity                              | Btu/h                               | 12000                                           |
|                              | Maximum Power Input                           | W                                   | 1758                                            |
| Heating at -13F <sup>9</sup> | Maximum Capacity                              | Btu/h                               | 7300                                            |
| Efficiency                   | SEER2                                         |                                     | 17.40                                           |
|                              | EER2 <sup>1</sup>                             |                                     | 12.60                                           |
|                              | HSPF2 [IV]                                    |                                     | 10                                              |
|                              | COP at 47°F <sup>2</sup>                      |                                     | 3.90                                            |
|                              | COP at 17°F at Maximum Capacity <sup>3</sup>  |                                     | 2.80                                            |
|                              | COP at 5°F at Maximum Capacity <sup>5</sup>   |                                     | 2.00                                            |
|                              | COP at -13°F at Maximum Capacity <sup>9</sup> |                                     | 1.87                                            |
|                              | ENERGY STAR® Certified                        |                                     | Yes                                             |
| Electrical                   | Voltage, Phase, Frequency                     | V AC / V AC , Ø , Hz                | 208 / 230 , 1 , 60                              |
|                              | Guaranteed Voltage Range                      | V AC                                | 198 - 253                                       |
|                              | Voltage: Indoor - Outdoor, S1-S2              | V AC                                | 208/230                                         |
|                              | Voltage: Indoor - Outdoor, S2-S3              | V DC                                | 12-24                                           |
|                              | Short-circuit Current Rating [SCCR]           | kA                                  | 5                                               |
|                              | Recommended Fuse/Breaker Size (Outdoor)       | A                                   | 25                                              |
|                              | Recommended Wire Size [Indoor - Outdoor]      | AWG                                 | 14                                              |
| Indoor Unit                  | Fan Motor Output                              | W                                   | 30                                              |
|                              | Fan Motor Type                                |                                     | DC Motor                                        |
|                              | Airflow Rate at Cooling, Dry                  | CFM                                 | 143 , 164 , 228 , 305 , 391                     |
|                              | Airflow Rate at Cooling, Wet                  | CFM                                 | 128 , 147 , 205 , 274 , 352                     |
|                              | Airflow Rate at Heating, Dry                  | CFM                                 | 143 , 164 , 205 , 244 , 448                     |
|                              | Sound Pressure Level [Cooling]                | dB (A)                              | 21 , 23 , 29 , 36 , 42                          |
|                              | Sound Pressure Level [Heating]                | dB (A)                              | 21 , 24 , 29 , 37 , 45                          |
|                              | Drain Pipe Size O.D.                          | inch [ mm ]                         | 5/8 [ 16 ]                                      |
|                              | Condensate Lift Mechanism, Max Height         | inch                                | 0                                               |
|                              | Dual Barrier Coating on Heat Exchanger        |                                     | Yes                                             |
|                              | Dual Barrier Coating on Fan                   |                                     | Yes                                             |
|                              | External Finish Color                         |                                     | 3.7PB 2.0/0.1                                   |
|                              | Unit Dimensions (W x D x H)                   | inch x inch x inch [ mm x mm x mm ] | 34-13/16 x 7-11/16 x 11-3/4 [ 885 x 195 x 299 ] |
|                              | Package Dimensions (W x D x H)                | inch x inch x inch [ mm x mm x mm ] | 35-5/8 x 14-3/16 x 10-11/16 [ 980 x 360 x 270 ] |
| IDU Operating Temp. Range    | Unit Weight                                   | lbs [ kg ]                          | 26 [ 11.50 ]                                    |
|                              | Package Weight                                | lbs [ kg ]                          | 29 [ 13 ]                                       |
|                              | Cooling Intake Air Temp [Maximum / Minimum]   | °FDB , °FWB / °FDB , °FWB           | 90 , 73 / 66 , 59                               |
|                              | Heating Intake Air Temp [Maximum / Minimum]   | °FDB                                | 83 / 50                                         |
| Outdoor Unit                 | MCA                                           | A                                   | 24                                              |

## Notes

<sup>1</sup>Cooling at 95°F (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

<sup>5</sup>Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

<sup>9</sup>Heating at -13°F (Indoor // Outdoor) °F 70 DB, 60 WB // -13 DB, -14 WB

<sup>\*</sup>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.

<sup>\*\*</sup>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 and automatically restarts at these temperatures.

# SPECIFICATIONS: MSZ-EX09NLB & SUZ-AA09NLHZ

|                           |                                                            |                                     |                                           |
|---------------------------|------------------------------------------------------------|-------------------------------------|-------------------------------------------|
| Outdoor Unit              | MOCP                                                       | A                                   | 41                                        |
|                           | Fan Motor Output                                           | W                                   | 50                                        |
|                           | Airflow Rate Cooling                                       | CFM                                 | 2193                                      |
|                           | Airflow Rate Heating                                       | CFM                                 | 1949                                      |
|                           | Defrost Method                                             |                                     | Reverse Cycle                             |
|                           | Coating on Heat Exchanger (Bluefin, Sea Coast)             |                                     | Yes , Yes                                 |
|                           | Sound Pressure Level, Cooling <sup>1</sup>                 | dB (A)                              | 54                                        |
|                           | Sound Pressure Level, Heating <sup>2</sup>                 | dB (A)                              | 55                                        |
|                           | Compressor Type                                            |                                     | Twin Rotary                               |
|                           | Compressor Model                                           |                                     | SRB172FQHMT                               |
|                           | Compressor Oil [Type // Charge]                            | // oz                               | RM68EH // 14.5                            |
|                           | External Finish Color                                      |                                     | Munsell No.3Y 7.8/1.1                     |
|                           | Base Pan Heater                                            |                                     | Built-in                                  |
|                           | Unit Dimensions (W x D x H)                                | inch x inch x inch [ mm x mm x mm ] | 33-1/16 x 13 x 34-5/8 [ 840 x 330 x 880 ] |
| ODU Operating Temp. Range | Package Dimensions (W x D x H)                             | inch x inch x inch [ mm x mm x mm ] | 38-5/8 x 16-9/16 x 39 [ 980 x 420 x 990 ] |
|                           | Unit Weight                                                | lbs [ kg ]                          | 115 [ 52.16 ]                             |
|                           | Package Weight                                             | lbs [ kg ]                          | 133 [ 60.33 ]                             |
|                           | Cooling Intake Air Temp [Maximum / Minimum*]               | °FDB                                | 115 / 14                                  |
|                           | Cooling Thermal Lock-out / Re-start Temperatures**         | °FDB                                | -1 / 3                                    |
| Refrigerant               | Heating Intake Air Temp [Maximum / Minimum]                | °FDB , °FWB / °FDB , °FWB           | 75 , 65 / -13 , -14                       |
|                           | Heating Thermal Lock-out / Re-start Temperatures**         | °FDB                                | -22.5 / -14                               |
|                           | Type                                                       |                                     | R454B                                     |
|                           | Pre-Charged Refrigerant Amount                             | lbs , oz                            | 3 ,                                       |
| Piping                    | Maximum Pre-Charged Piping Length                          | ft [ m ]                            | 25 [ 7.60 ]                               |
|                           | Additional Refrigerant Charge Per Additional Piping Length | oz/ft                               | 0.22                                      |
|                           | Liquid Pipe Size O.D. [Flared]                             | inch [ mm ]                         | 1/4 [ 6.35 ]                              |
|                           | Gas Pipe Size O.D. [Flared]                                | inch [ mm ]                         | 3/8 [ 9.52 ]                              |
|                           | Maximum Piping Length                                      | ft [ m ]                            | 100 [ 30 ]                                |
|                           | Maximum Height Difference                                  | ft [ m ]                            | 50 [ 15 ]                                 |
|                           | Maximum Number of Bends                                    |                                     | 10                                        |

## Notes

<sup>1</sup>Cooling at 95°F (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

<sup>5</sup>Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

<sup>9</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.

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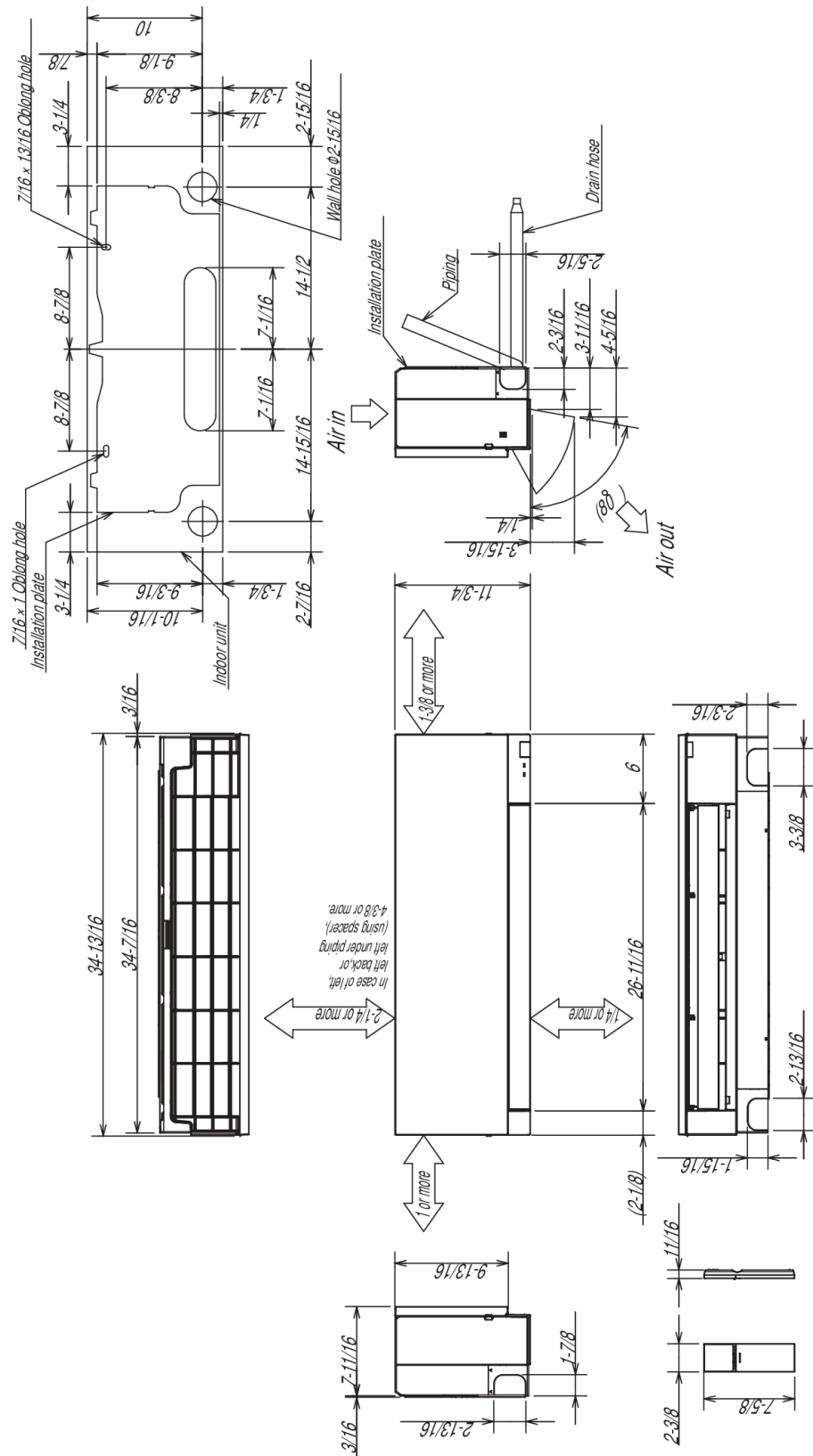
# INDOOR UNIT ACCESSORIES: MSZ-EX09NLB

|                                                                                                                                                                                                                          |                                                                                                          |                          |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|-------------------|
| Condensate                                                                                                                                                                                                               | Sauermann Condensate Pump 120-230V up to 60k BTU/h                                                       | <input type="checkbox"/> | SI30-230          |
|                                                                                                                                                                                                                          | Refco Condensate Pump 100-240V up to 120k BTU/h                                                          | <input type="checkbox"/> | COMBI             |
|                                                                                                                                                                                                                          | Drain Pan Level Sensor/Control                                                                           | <input type="checkbox"/> | SS610E            |
|                                                                                                                                                                                                                          | Blue Diamond Sensor Extension Cable 15 Ft                                                                | <input type="checkbox"/> | C13-103           |
|                                                                                                                                                                                                                          | Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH                                  | <input type="checkbox"/> | X86-003           |
|                                                                                                                                                                                                                          | Refco Condensate Pump 100-240 VAC                                                                        | <input type="checkbox"/> | GOBI-II           |
|                                                                                                                                                                                                                          | REFCO PUMP 100-240 VAC 5060 HZ                                                                           | <input type="checkbox"/> | X86-011           |
|                                                                                                                                                                                                                          | Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended | <input type="checkbox"/> | X87-711           |
|                                                                                                                                                                                                                          | Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h                     | <input type="checkbox"/> | X88-721           |
|                                                                                                                                                                                                                          | Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h                    | <input type="checkbox"/> | X87-835           |
| Control Interface                                                                                                                                                                                                        | Airzone Wireless Think Controller White                                                                  | <input type="checkbox"/> | AZZBSTHINKRB      |
|                                                                                                                                                                                                                          | Airzone Wired Blueface Controller White                                                                  | <input type="checkbox"/> | AZZBSBLUEZEROCB   |
|                                                                                                                                                                                                                          | Airzone Wireless Lite Controller Black                                                                   | <input type="checkbox"/> | AZZBSLITERN       |
|                                                                                                                                                                                                                          | Airzone Wireless Lite Controller White                                                                   | <input type="checkbox"/> | AZZBSLITERB       |
|                                                                                                                                                                                                                          | IT Extender                                                                                              | <input type="checkbox"/> | PAC-WHS01IE-E     |
|                                                                                                                                                                                                                          | Wireless Interface 2 for Comfrot app                                                                     | <input type="checkbox"/> | PAC-USWHS002-WF-2 |
|                                                                                                                                                                                                                          | M-NET adapter <sup>2</sup>                                                                               | <input type="checkbox"/> | MAC-334IF-E       |
|                                                                                                                                                                                                                          | Airzone Wired Blueface Controller Black                                                                  | <input type="checkbox"/> | AZZBSBLUEZEROCN   |
|                                                                                                                                                                                                                          | Thermostat Interface for 3rd Party Thermostats                                                           | <input type="checkbox"/> | PAC-US445CN-1     |
|                                                                                                                                                                                                                          | Airzone Wireless Think Controller Black                                                                  | <input type="checkbox"/> | AZZBSTHINKRN      |
|                                                                                                                                                                                                                          | Procon BACnet® and Modbus® Interface                                                                     | <input type="checkbox"/> | PAC-UKPRC001-CN-1 |
|                                                                                                                                                                                                                          | kumo station® for Comfort app                                                                            | <input type="checkbox"/> | PAC-WHS01HC-E     |
| Disconnect Switch                                                                                                                                                                                                        | 30A600VUL fits 2 X 4 utility box - Black                                                                 | <input type="checkbox"/> | TAZ-MS303         |
|                                                                                                                                                                                                                          | 30A600VUL fits 2 X 4 utility box - White                                                                 | <input type="checkbox"/> | TAZ-MS303W        |
| Drain Hose                                                                                                                                                                                                               | Flexible Mini-Split Drain Hose                                                                           | <input type="checkbox"/> | DRX-16            |
| Filter                                                                                                                                                                                                                   | Electro Static Anti-allergy Enzyme Filter                                                                | <input type="checkbox"/> | MAC-2320FT-E      |
|                                                                                                                                                                                                                          | Microparticle Filter                                                                                     | <input type="checkbox"/> | MAC-EMF515FT-E    |
| Lineset                                                                                                                                                                                                                  | 65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation                                                           | <input type="checkbox"/> | MLS143812T-65     |
|                                                                                                                                                                                                                          | 50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation                                                           | <input type="checkbox"/> | MLS143812T-50     |
|                                                                                                                                                                                                                          | 15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation                                                           | <input type="checkbox"/> | MLS143812T-15     |
|                                                                                                                                                                                                                          | 30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation                                                           | <input type="checkbox"/> | MLS143812T-30     |
| Remote Sensor                                                                                                                                                                                                            | Wireless temperature and humidity sensor for Comfort app                                                 | <input type="checkbox"/> | PAC-USWHS003-TH-1 |
|                                                                                                                                                                                                                          | Remote Temperature Sensor for MFZ MLZ and MSZ models                                                     | <input type="checkbox"/> | M21EAA307         |
| Terminal Signal Adapter                                                                                                                                                                                                  | Backup Heat Relay Kit                                                                                    | <input type="checkbox"/> | CN24RELAY-KIT-CM3 |
| Wired Remote Controller                                                                                                                                                                                                  | Simple MA Remote Controller <sup>1</sup>                                                                 | <input type="checkbox"/> | PAC-YT53CRAU-J    |
|                                                                                                                                                                                                                          | Deluxe Wired MA Remote Controller <sup>1</sup>                                                           | <input type="checkbox"/> | PAR-42MAAUB       |
|                                                                                                                                                                                                                          | Simple Direct Wired Remote Controller                                                                    | <input type="checkbox"/> | PAC-SDW01RC-1     |
|                                                                                                                                                                                                                          | Touch MA Remote Controller <sup>1</sup>                                                                  | <input type="checkbox"/> | PAR-CT01MAU-SB    |
| Wireless Remote Controller                                                                                                                                                                                               | Wireless RedLINK™ Remote Controller                                                                      | <input type="checkbox"/> | MHK2              |
|                                                                                                                                                                                                                          | Lockdown Bracket for Wireless Handheld Remote Controllers                                                | <input type="checkbox"/> | RCMKP1CB          |
| <b>Notes</b><br><br><sup>2</sup> Allows IDU Connection to MA Controller: *Deluxe MA Remote Controller *Simple MA Controller *Touch MA Controller<br><sup>1</sup> Requires MAC-334IF-E Interface to connect MA controller |                                                                                                          |                          |                   |

## OUTDOOR UNIT ACCESSORIES: SUZ-AA09NLHZ

|                      |                                                     |                          |                |
|----------------------|-----------------------------------------------------|--------------------------|----------------|
| Air Outlet Guide     | Air Outlet Guide                                    | <input type="checkbox"/> | MAC-890SG-E    |
| Control/Service Tool | M- & P-Series Maintenance Tool Cable Set            | <input type="checkbox"/> | M21EC0397      |
|                      | Maintenance Tool Interface                          | <input type="checkbox"/> | PAC-USCMS-MN-1 |
| Drain Socket         | Drain Socket                                        | <input type="checkbox"/> | MAC-871DS      |
| Hail Guards          | Hail Guard                                          | <input type="checkbox"/> | HG-A7          |
| Mini-Split Wire      | 14 Gauge 4 wire MiniSplit Cable250 ft roll          | <input type="checkbox"/> | S144-250       |
|                      | 14 Gauge 4 wire MiniSplit Cable50 ft roll           | <input type="checkbox"/> | S144-50        |
|                      | 14 Gauge 4 wire Armored MiniSplit Cable250 ft roll  | <input type="checkbox"/> | SW144-250      |
|                      | 14 Gauge 4 wire Armored MiniSplit Cable50 ft roll   | <input type="checkbox"/> | SW144-50       |
| Mounting Pad         | Condensing Unit Mounting Pad 16 x 36 x 3            | <input type="checkbox"/> | ULTRILITE1     |
| Muffler              | Muffler                                             | <input type="checkbox"/> | MAC-001MF-E    |
| Snow/Rain Diverter   | SnowRain Diverter                                   | <input type="checkbox"/> | SRD-3          |
| Stand                | Condenser Wall Bracket - Stainless Steel Finish     | <input type="checkbox"/> | QSWBSS         |
|                      | Condenser Wall Bracket                              | <input type="checkbox"/> | QSWB2000M-1    |
|                      | 24 Single Fan Stand                                 | <input type="checkbox"/> | QSMS2401M      |
|                      | 18 Single Fan Stand                                 | <input type="checkbox"/> | QSMS1801M      |
|                      | Outdoor Unit Stand 12 High                          | <input type="checkbox"/> | QSMS1201M      |
|                      | Outdoor Unit 3-14 inch Mounting Base Pair - Plastic | <input type="checkbox"/> | DSD-400P       |
| <b>Notes</b>         |                                                     |                          |                |

INDOOR UNIT DIMENSIONS: MSZ-EX09NLB



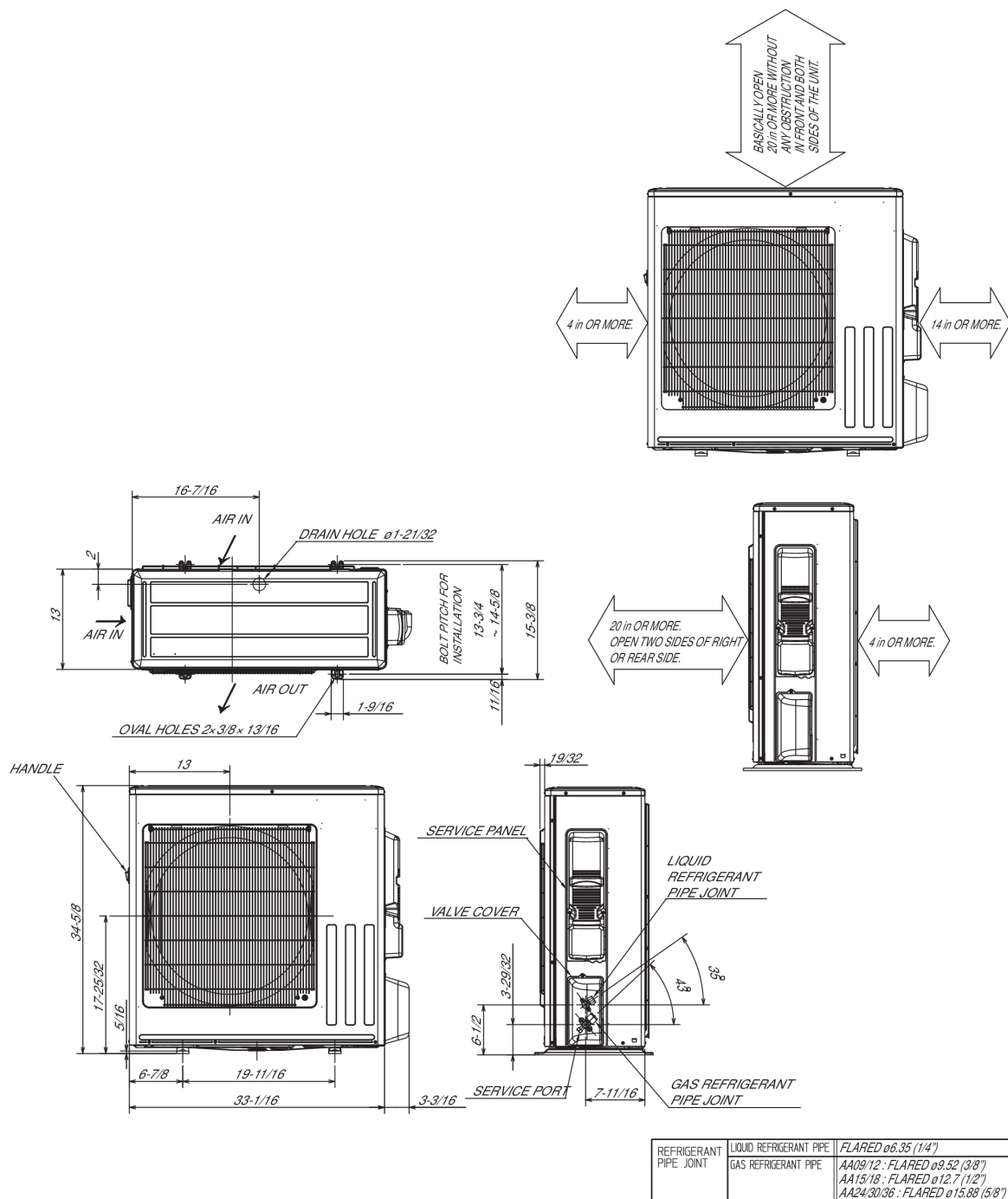
**MSZ-EX15/18NL**

|             |                                                                |
|-------------|----------------------------------------------------------------|
| Insulation  | φ1-7/16 O.D                                                    |
| Liquid line | φ1/4 - 19-11/16 (Flared connection φ1/4)                       |
| Gas line    | φ3/8 - 16-5/16 (Flared connection φ1/2)                        |
| Drain hose  | Insulation φ1-1/8 Connected part 45/8 O.D active length 15-3/8 |

Note: Extension pipe size refer to the specifications table.

OUTDOOR UNIT DIMENSIONS: SUZ-AA09NLHZ

### REQUIRED SPACE



1340 Satellite Boulevard Suwanee, GA 30024  
Toll Free: 800-433-4822 · [mitsubishicomfort.com](http://mitsubishicomfort.com)

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