

PEAD-AA30NL & SUZ-AA30NL  
27,000 BTU/H HORIZONTAL-DUCTED INDOOR UNIT  
27,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....PEAD-AA30NL

Outdoor Unit.....SUZ-AA30NL



#### INDOOR UNIT FEATURES

- Auto fan speed mode
- Built-in condensate lift mechanism (up to 27-9/16")
- Multiple control options including: comfort app, third-party interfaces and both wired and wireless controllers
- Optional FB Series filter boxes for easy access and service
- Unobtrusive ceiling-concealed design for short-run ductwork
- Wide ranging external static pressure (0.14-0.60 in. WG)

#### OUTDOOR UNIT FEATURES

- Single-zone: One outdoor unit connects to one indoor unit to control the comfort in a single space.
- Quiet operation: Quiet operation units are as quiet as a typical conversation, and most indoor units are whisper quiet.
- Pulse Amplitude Modulation technology: Pulse Amplitude Modulation technology enhances energy efficiency by adjusting the power supply to optimize compressor performance, ensuring precise capacity control and reduced energy consumption.
- Outdoor unit directed power: The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- Joint Lap DC Motor: Innovative Joint Lap DC Motor leads to high efficiency and reliability
- INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- Hot-Start Technology: Hot-Start Technology ensures the fan only activates once the heat exchanger is warm, preventing cold air blasts during start-up.
- High-performance grooved piping : High-performance grooved piping for increased heat exchange efficiency
- Blue Fin Coating: 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: PEAD-AA30NL & SUZ-AA30NL

|                             |                                              |                                      |                                              |
|-----------------------------|----------------------------------------------|--------------------------------------|----------------------------------------------|
| Cooling at 95F <sup>1</sup> | Maximum Capacity                             | Btu/h                                | 27,000                                       |
|                             | Rated Capacity                               | Btu/h                                | 27,000                                       |
|                             | Minimum Capacity                             | Btu/h                                | 9,500                                        |
|                             | Maximum Power Input                          | W                                    | 2,270                                        |
|                             | Rated Power Input                            | W                                    | 2,270                                        |
|                             | Moisture Removal                             | Pints/h                              | 4.4                                          |
|                             | Sensible Heat Factor                         | -                                    | 0.82                                         |
|                             | Power Factor [208V / 230V]                   | %                                    | 95 / 95                                      |
| Heating at 47F <sup>2</sup> | Maximum Capacity                             | Btu/h                                | 31,400                                       |
|                             | Rated Capacity                               | Btu/h                                | 30,000                                       |
|                             | Minimum Capacity                             | Btu/h                                | 8,400                                        |
|                             | Maximum Power Input                          | W                                    | 2,830                                        |
|                             | Rated Power Input                            | W                                    | 2,664                                        |
|                             | Power Factor [208V / 230V]                   | %                                    | 97 / 97                                      |
| Heating at 17F <sup>3</sup> | Maximum Capacity                             | Btu/h                                | 18,700                                       |
|                             | Rated Capacity                               | Btu/h                                | 18,700                                       |
|                             | Maximum Power Input                          | W                                    | 1,980                                        |
|                             | Rated Power Input                            | W                                    | 1,980                                        |
| Heating at 5F <sup>4</sup>  | Maximum Capacity                             | Btu/h                                | 17,000                                       |
|                             | Maximum Power Input                          | W                                    | 1,660                                        |
| Heating at -4F <sup>5</sup> | Maximum Capacity                             | Btu/h                                | 13,700                                       |
| Efficiency                  | SEER2                                        |                                      | 20.3                                         |
|                             | EER2 <sup>1</sup>                            |                                      | 11.7                                         |
|                             | HSPF2 [IV]                                   |                                      | 9.5                                          |
|                             | COP at 47°F <sup>2</sup>                     |                                      | 3.3                                          |
|                             | COP at 17°F at Maximum Capacity <sup>3</sup> |                                      | 2.7                                          |
|                             | COP at 5°F at Maximum Capacity <sup>4</sup>  |                                      | 3                                            |
|                             | COP at -4°F at Maximum Capacity <sup>5</sup> |                                      | 2.47                                         |
|                             | 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                                    | 30                                           |
|                             | Recommended Wire Size [Indoor - Outdoor]     | AWG                                  | 14                                           |
|                             | MCA                                          | A                                    | 2.25                                         |
| Indoor Unit                 | Fan Motor Output                             | W                                    | 121                                          |
|                             | Airflow Rate at Cooling, Dry                 | CFM                                  | 618, 671, 742, 883                           |
|                             | Airflow Rate at Heating, Dry                 | CFM                                  | 618, 671, 742, 883                           |
|                             | Sound Pressure Level [Cooling]               | dB (A)                               | 30, 32, 34, 38                               |
|                             | Sound Pressure Level [Heating]               | dB (A)                               | 30, 32, 34, 38                               |
|                             | External Static Pressure                     | in.WG                                | 0.14, 0.20, 0.28, 0.40, 0.60                 |
|                             | Drain Pipe Size O.D.                         | inch [mm]                            | 1-1/4 [32]                                   |
|                             | Unit Dimensions (W x D x H)                  | inch x inch x inch<br>[mm x mm x mm] | 43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250] |
|                             | Package Dimensions (W x D x H)               | inch x inch x inch<br>[mm x mm x mm] | 53-15/16 x 35-7/16 x 13 [1,370 x 900 x 330]  |
|                             | Unit Weight                                  | lbs [kg]                             | 67 [30]                                      |
|                             | Package Weight                               | lbs [kg]                             | 79 [36]                                      |
|                             | Fan Motor Type                               |                                      | DC Motor                                     |
| IDU Operating Temp. Range   | Cooling Intake Air Temp [Maximum / Minimum]  | °FDB, °FWB / °FDB, °FWB              | 95, 71 / 67, 57                              |
|                             | Heating Intake Air Temp [Maximum / Minimum]  | °FDB                                 | 80 / 59                                      |

## NOTES

<sup>1</sup>Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

<sup>2</sup>Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

<sup>3</sup>Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

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

<sup>5</sup>Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F 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 and automatically restarts at these temperatures.

# SPECIFICATIONS: PEAD-AA30NL & SUZ-AA30NL

|                           |                                                            |                                      |                                           |
|---------------------------|------------------------------------------------------------|--------------------------------------|-------------------------------------------|
| Outdoor Unit              | MCA                                                        | A                                    | 25                                        |
|                           | MOCP                                                       | A                                    | 41                                        |
|                           | Fan Motor Output                                           | W                                    | 50                                        |
|                           | Airflow Rate Cooling                                       | CFM                                  | 1,974                                     |
|                           | Airflow Rate Heating                                       | CFM                                  | 1,949                                     |
|                           | Defrost Method                                             |                                      | Reverse Cycle                             |
|                           | Coating on Heat Exchanger (Bluefin, Sea Coast)             |                                      | Yes, Yes                                  |
|                           | Sound Pressure Level, Cooling <sup>1</sup>                 | dB (A)                               | 55                                        |
|                           | Sound Pressure Level, Heating <sup>2</sup>                 | dB (A)                               | 55                                        |
|                           | Compressor Type                                            |                                      | Twin Rotary                               |
|                           | Compressor Model                                           |                                      | SRB220FQYMT                               |
|                           | Compressor Oil [Type // Charge]                            | Type // oz                           | RM68EH // 15.6                            |
|                           | External Finish Color                                      |                                      | Munsell No.3Y 7.8/1.1                     |
|                           | Base Pan Heater                                            |                                      | Optional                                  |
|                           | Unit Dimensions (W x D x H)                                | inch x inch x inch<br>[mm x mm x mm] | 33-1/16 x 13 x 34-11/16 [840 x 330 x 880] |
|                           | Package Dimensions (W x D x H)                             | inch x inch x inch<br>[mm x mm x mm] | 38-5/8 x 16-9/16 x 39 [980 x 420 x 990]   |
|                           | Unit Weight                                                | lbs [kg]                             | 117 [53.07]                               |
|                           | Package Weight                                             | lbs [kg]                             | 135.01 [61.24]                            |
| ODU Operating Temp. Range | Cooling Intake Air Temp [Maximum / Minimum*]               | °FDB                                 | 115 / 14                                  |
|                           | Cooling Thermal Lock-out / Re-start Temperatures**         | °FDB                                 | -1 / 3                                    |
|                           | Heating Intake Air Temp [Maximum / Minimum]                | °FDB, °FWB / °FDB, °FWB              | 75, 65 / -4, -5                           |
|                           | Heating Thermal Lock-out / Re-start Temperatures**         | °FDB                                 | -14 / -4                                  |
| Refrigerant               | Type                                                       |                                      | R454B                                     |
|                           | Pre-Charged Refrigerant Amount                             | lbs, oz                              | 3, 4                                      |
|                           | Maximum Pre-Charged Piping Length                          | ft [m]                               | 25 [7.60]                                 |
|                           | Additional Refrigerant Charge Per Additional Piping Length | oz/ft                                | 0.22                                      |
| Piping                    | Gas Pipe Size O.D. [Flared]                                | inch [mm]                            | 5/8 [15.88]                               |
|                           | Liquid Pipe Size O.D. [Flared]                             | inch [mm]                            | 1/4 [6.35]                                |
|                           | Maximum Piping Length                                      | ft [m]                               | 100 [30]                                  |
|                           | Maximum Height Difference                                  | ft [m]                               | 100 [30]                                  |
|                           | Maximum Number of Bends                                    |                                      | 10                                        |

## NOTES

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

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

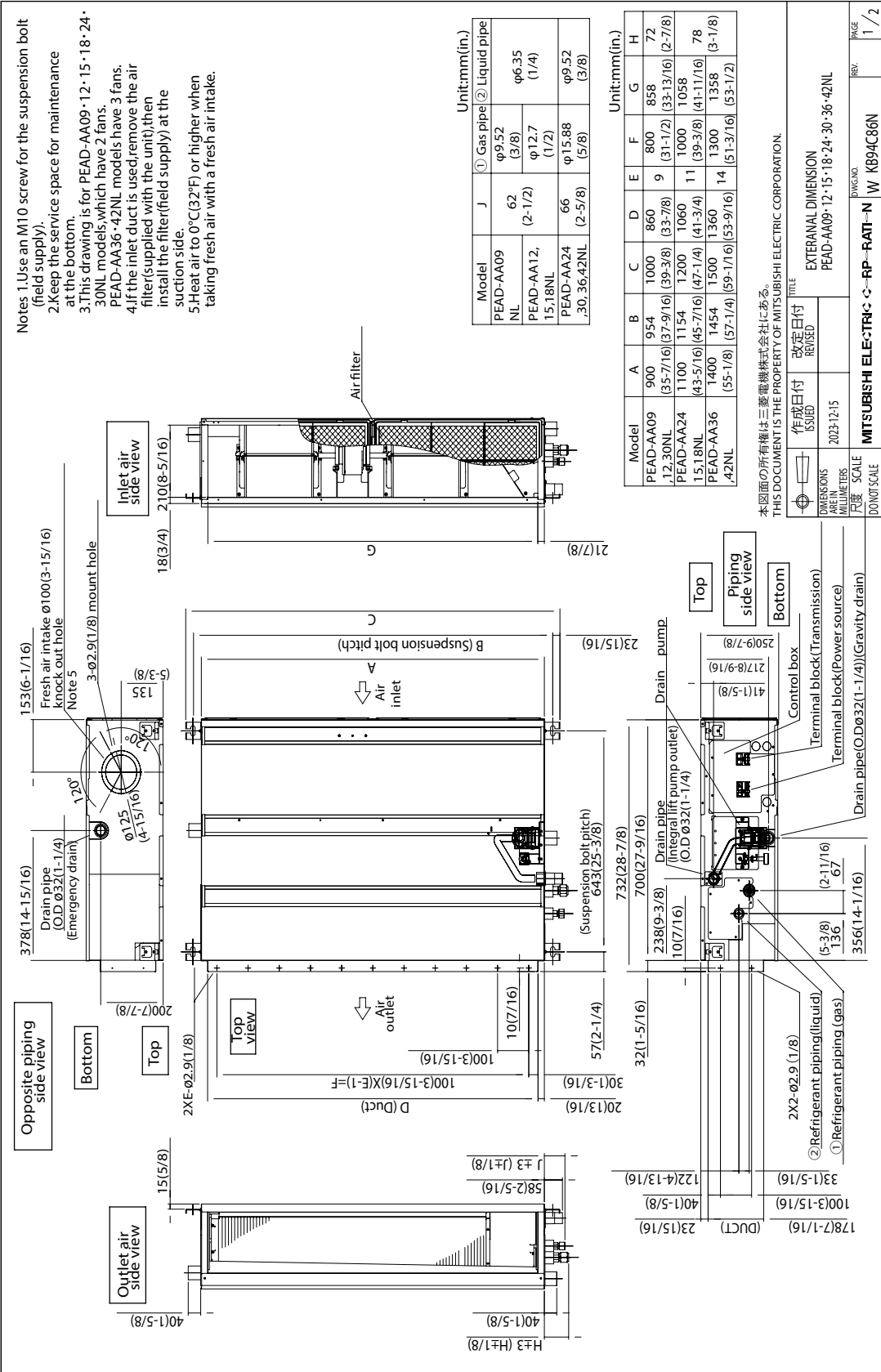
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## INDOOR UNIT ACCESSORIES: PEAD-AA30NL

|                                         |                                                                                                          |                   |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------|
| Lineset                                 | 100 x 1/4 x 100 x 5/8 Lineset Twin-Tube Insulation                                                       | MLS145812T-100    |
|                                         | 100 x 3/8 x 65 x 5/8 Lineset Twin-Tube Insulation                                                        | MPLS385812T-100   |
|                                         | 15 x 1/4 x 15 x 5/8 Lineset Twin-Tube Insulation                                                         | MLS145812T-15     |
|                                         | 15 x 3/8 x 15 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-15    |
|                                         | 30 x 1/4 x 30 x 5/8 Lineset Twin-Tube Insulation                                                         | MLS145812T-30     |
|                                         | 30 x 3/8 x 30 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-30    |
|                                         | 50 x 1/4 x 50 x 5/8 Lineset Twin-Tube Insulation                                                         | MLS145812T-50     |
|                                         | 50 x 3/8 x 50 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-50    |
|                                         | 65 x 1/4 x 65 x 5/8 Lineset Twin-Tube Insulation                                                         | MLS145812T-65     |
|                                         | 65 x 3/8 x 65 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-65    |
| Control Interface                       | 3-Pin Wiring Harness                                                                                     | PAC-715AD         |
|                                         | 5-Pin Wiring Harness                                                                                     | PAC-725AD         |
|                                         | Airzone Wired Blueface Controller Black                                                                  | AZZBSBLUEZEROCN   |
|                                         | Airzone Wired Blueface Controller White                                                                  | AZZBSBLUEZEROCB   |
|                                         | Airzone Wireless Lite Controller Black                                                                   | AZZBSLITERN       |
|                                         | Airzone Wireless Lite Controller White                                                                   | AZZBSLITERB       |
|                                         | Airzone Wireless Think Controller Black                                                                  | AZZBSTHINKRN      |
|                                         | Airzone Wireless Think Controller White                                                                  | AZZBSTHINKRB      |
|                                         | IT Extender for kumo station                                                                             | PAC-WHS01IE-E     |
|                                         | kumo station for the Comfort app                                                                         | PAC-WHS01HC-E     |
|                                         | Operation and Error Status Output Adapter <sup>1</sup>                                                   | PAC-SF40RM-E      |
|                                         | Procon BACnet and Modbus Interface                                                                       | PAC-UKPRC001-CN-1 |
|                                         | Thermostat Interface for 3rd Party Thermostats                                                           | PAC-US445CN-1     |
|                                         | Wireless Interface Adapter for the Comfort app                                                           | PAC-USWHS002-WF-2 |
| Condensate                              | Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended                        | X87-721           |
|                                         | Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended | X87-711           |
|                                         | Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor                                        | X87-835           |
|                                         | Blue Diamond Sensor Extension Cable 15 Ft                                                                | C13-103           |
|                                         | Refco Condensate Pump 100-240 VAC up to 120000 BTUH                                                      | COMBI             |
|                                         | Sauermann Condensate Pump                                                                                | SI30-230          |
| Power Supplies and Auxiliary Components | Backup Heat Relay Kit Adapter for CN24 or CN152 Connector                                                | CN24RELAY-KIT-CM3 |
| Wired Remote Controller                 | Deluxe MA Wired Remote Controller <sup>1</sup>                                                           | PAR-42MAAUB       |
|                                         | Simple Direct Wired Remote Controller                                                                    | PAC-SDW01RC-1     |
|                                         | Simple MA Remote Controller <sup>1</sup>                                                                 | PAC-YT53CRAU-J    |
|                                         | Touch MA Wired Remote Controller <sup>1</sup>                                                            | PAR-CT01MAU-SB    |
| Remote Sensor                           | Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models                            | PAC-USSEN002-FM-1 |
|                                         | Wall Mount Remote Temperature Sensor                                                                     | PAC-SE41TS-E      |
|                                         | Wireless temperature and humidity sensor for the Comfort app                                             | PAC-USWHS003-TH-1 |
| Wireless Remote Controller              | Lockdown Bracket for Wireless Handheld Remote Controllers                                                | RCMKP1CB          |
|                                         | RedLINK Wireless Remote Controller                                                                       | MHK2              |
|                                         | Universal Wireless MA Handheld Remote Controller                                                         | PAR-FL32MA-E      |
|                                         | Universal Wireless Receiver for PAR-FL32MA-E                                                             | PAR-FA32MA-W      |
| Disconnect Switch                       | 30A600VUL fits 2 X 4 utility box - Black                                                                 | TAZ-MS303         |
|                                         | 30A600VUL fits 2 X 4 utility box - White                                                                 | TAZ-MS303W        |
| Filter Box                              | Filter Box with MERV 13 Filter                                                                           | FBM2-3-A          |
| Control Wire                            | 202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel                                               | CW2042S2-100      |
|                                         | 202PR shielded 1PR plenum wire for Airzone 500 ft reel                                                   | CW2042S2-500      |
| NOTES                                   |                                                                                                          |                   |

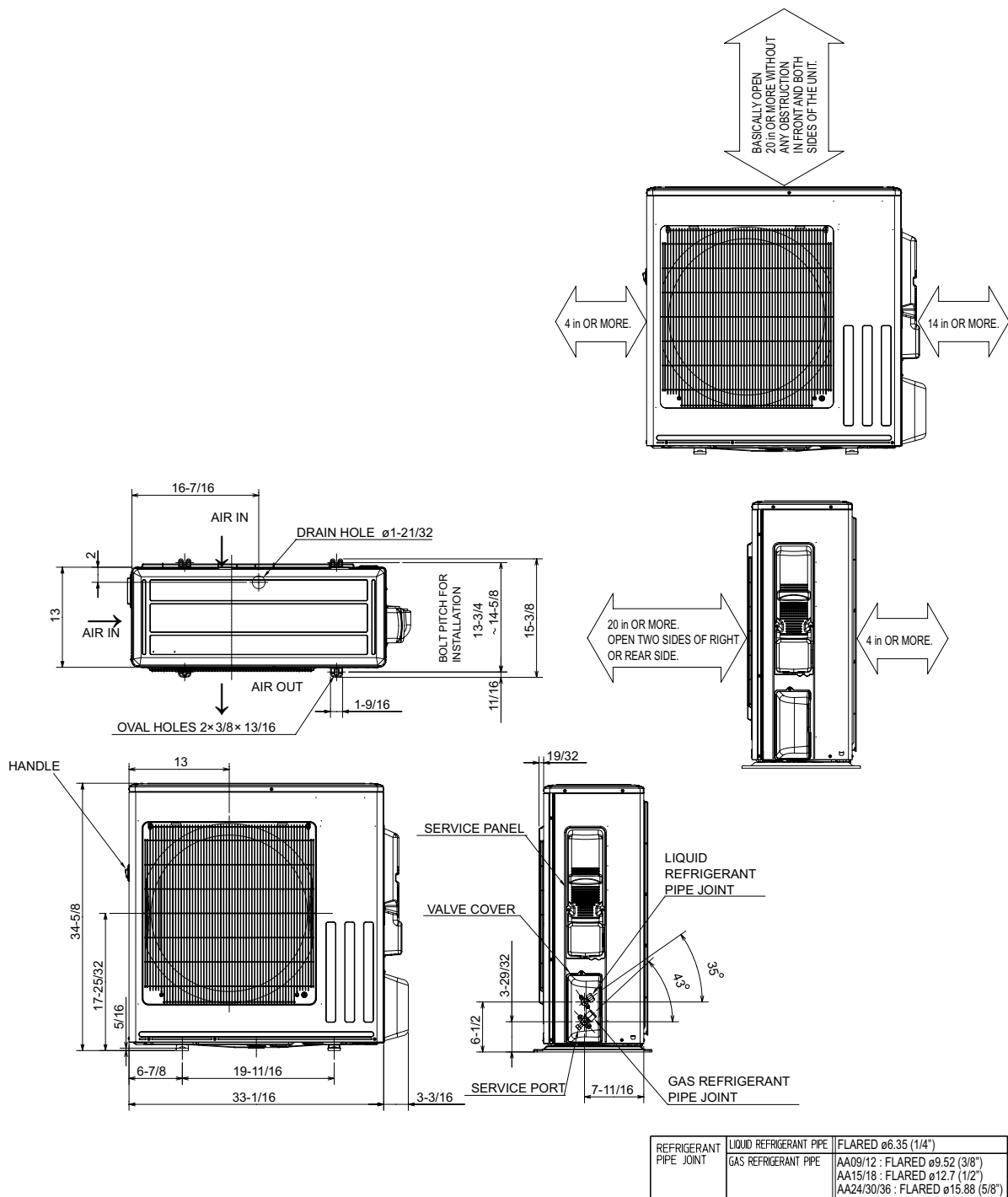
## OUTDOOR UNIT ACCESSORIES: SUZ-AA30NL

|                         |                                                     |              |
|-------------------------|-----------------------------------------------------|--------------|
| Drain Socket            | Drain Socket                                        | MAC-871DS    |
| Mini-Split Wire         | 14 Gauge 4 wire Armored MiniSplit Cable250 ft roll  | SW144-250    |
|                         | 14 Gauge 4 wire Armored MiniSplit Cable50 ft roll   | SW144-50     |
|                         | 14 Gauge 4 wire MiniSplit Cable250 ft roll          | S144-250     |
|                         | 14 Gauge 4 wire MiniSplit Cable50 ft roll           | S144-50      |
|                         | 16 Gauge 4 wire Armored MiniSplit Cable250 ft roll  | SW164-250    |
|                         | 16 Gauge 4 wire Armored MiniSplit Cable50 ft roll   | SW164-50     |
|                         | 16 Gauge 4 wire MiniSplit Cable250 ft roll          | S164-250     |
|                         | 16 Gauge 4 wire MiniSplit Cable50 ft roll           | S164-50      |
| Stand                   | 18 Single Fan Stand                                 | QSMS1801M    |
|                         | 24 Single Fan Stand                                 | QSMS2401M    |
|                         | Condenser Wall Bracket                              | QSWB2000M-1  |
|                         | Outdoor Unit 3-14 inch Mounting Base Pair - Plastic | DSD-400P     |
|                         | Outdoor Unit Stand 12 High                          | QSMS1201M    |
| Snow/Rain Diverter      | SnowRain Diverter                                   | SRD-3        |
| Control/Service Tool    | M- & P-Series Maintenance Tool Cable Set            | M21EC0397    |
|                         | USB Conversion Cable for PAC-USCMS-MN-1             | M21EC1397    |
| Mounting Pad            | Condensing Unit Mounting Pad 16 x 36 x 3            | ULTRILITE1   |
| Air Outlet Guide        | Air Outlet Guide                                    | MAC-886SG-E  |
| Optional Defrost Heater | Base Heater                                         | MAC-642BH-U1 |
| NOTES                   |                                                     |              |



OUTDOOR UNIT DIMENSIONS: SUZ-AA30NL

REQUIRED SPACE



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Toll Free: 800-433-4822 <https://mitsubishicomfort.com>

