

PVA-AA18NL & PUZ-AK18NL  
18,000 BTU/H MULTI-POSITION AIR HANDLER INDOOR UNIT  
18,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PVA-AA18NL  
OUTDOOR Unit ... PUZ-AK18NL

#### INDOOR UNIT FEATURES

- Multi-Position Installation: Versatile installation options, including horizontal (left or right) and vertical (up or down) orientations, with included drain pans to facilitate easy setup for any configuration.
- Auto Changeover: The unit will automatically switch between heating and cooling modes to maintain your desired temperature.
- Three Speed Fan: Adjust the fan between three speed settings to optimal comfort.
- Blow Through Design: A unique blow-through design allows for easier cleaning and maintenance of the cabinet.

#### OUTDOOR UNIT FEATURES

- 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.
- Seacoast Protection: Designed to protect against the corrosive effects of environments that are in close proximity to the sea.

# SPECIFICATIONS: PVA-AA18NL & PUZ-AK18NL

|                             |                                              |                                     |                                                   |
|-----------------------------|----------------------------------------------|-------------------------------------|---------------------------------------------------|
| Cooling at 95F <sup>1</sup> | Maximum Capacity                             | Btu/h                               | 18300                                             |
|                             | Rated Capacity                               | Btu/h                               | 18000                                             |
|                             | Minimum Capacity                             | Btu/h                               | 4700                                              |
|                             | Maximum Power Input                          | W                                   | 1570                                              |
|                             | Rated Power Input                            | W                                   | 1530                                              |
|                             | Moisture Removal                             | Pints/h                             | 3.60                                              |
|                             | Sensible Heat Factor                         |                                     | 0.78                                              |
|                             | Power Factor [208V / 230V]                   | %                                   | 88 / 88                                           |
| Heating at 47F <sup>2</sup> | Maximum Capacity                             | Btu/h                               | 24000                                             |
|                             | Rated Capacity                               | Btu/h                               | 23000                                             |
|                             | Minimum Capacity                             | Btu/h                               | 4700                                              |
|                             | Maximum Power Input                          | W                                   | 2060                                              |
|                             | Rated Power Input                            | W                                   | 1983                                              |
|                             | Power Factor [208V / 230V]                   | %                                   | 90 / 90                                           |
| Heating at 17F <sup>3</sup> | Maximum Capacity                             | Btu/h                               | 12100                                             |
|                             | Rated Capacity                               | Btu/h                               | 12100                                             |
|                             | Maximum Power Input                          | W                                   | 1500                                              |
|                             | Rated Power Input                            | W                                   | 1500                                              |
| Heating at 5F <sup>5</sup>  | Maximum Capacity                             | Btu/h                               | 9500                                              |
|                             | Maximum Power Input                          | W                                   | 1465                                              |
| Heating at -4F <sup>6</sup> | Maximum Capacity                             | Btu/h                               | 8800                                              |
| Efficiency                  | SEER2                                        |                                     | 18.60                                             |
|                             | EER2 <sup>1</sup>                            |                                     | 11.70                                             |
|                             | HSPF2 [IV]                                   |                                     | 8.60                                              |
|                             | COP at 47°F <sup>2</sup>                     |                                     | 3.40                                              |
|                             | COP at 17°F at Maximum Capacity <sup>3</sup> |                                     | 2.30                                              |
|                             | COP at 5°F at Maximum Capacity <sup>5</sup>  |                                     | 1.90                                              |
|                             | COP at -4°F at Maximum Capacity <sup>6</sup> |                                     | 1.90                                              |
|                             | 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                                   | 20                                                |
|                             | Recommended Wire Size [Indoor - Outdoor]     | AWG                                 | 14                                                |
| Indoor Unit                 | MCA                                          | A                                   | 3                                                 |
|                             | Fan Motor Output                             | W                                   | 121                                               |
|                             | Fan Motor Type                               |                                     | Direct-driven DC Brushless Motor                  |
|                             | Airflow Rate at Cooling, Dry                 | CFM                                 | 515 , 625 , 735                                   |
|                             | Airflow Rate at Heating, Dry                 | CFM                                 | 515 , 625 , 735                                   |
|                             | Sound Pressure Level [Cooling]               | dB (A)                              | 31 , 36 , 40                                      |
|                             | Sound Pressure Level [Heating]               | dB (A)                              | 31 , 36 , 40                                      |
|                             | External Static Pressure                     | in.WG                               | 0.30 , 0.50 , 0.80                                |
|                             | Drain Pipe Size O.D.                         | inch [ mm ]                         | 3/4 [ 19.05 ]                                     |
|                             | External Finish Color                        |                                     | Galvanized steel cabinet-Powder coated Slate Gray |
|                             | Unit Dimensions (W x D x H)                  | inch x inch x inch [ mm x mm x mm ] | 17 x 21-5/8 x 50-1/4 [ 432 x 548 x 1275 ]         |
|                             | Package Dimensions (W x D x H)               | inch x inch x inch [ mm x mm x mm ] | 18-1/8 x 28-11/16 x 56-15/16 [ 460 x 728 x 1446 ] |
|                             | Unit Weight                                  | lbs [ kg ]                          | 113 [ 51 ]                                        |
|                             | Package Weight                               | lbs [ kg ]                          | 133 [ 60 ]                                        |
| IDU Operating Temp. Range   | Cooling Intake Air Temp [Maximum / Minimum]  | deg F , deg F / deg F , deg F       | 90 , 72 / 66 , 61                                 |
|                             | Heating Intake Air Temp [Maximum / Minimum]  | deg F                               | 77 / 59                                           |
| Outdoor Unit                | MCA                                          | A                                   | 16                                                |
|                             | MOCP                                         | A                                   | 27                                                |
|                             | Fan Motor Output                             | W                                   | 51                                                |

## Notes

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

<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

\*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Wind baffles required to operate below 23°F DB in cooling mode. • Heat pump system with wind baffle: 0°F - 115°F. • Refer to wind baffle documentation for further information.

\*\*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.

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

## SPECIFICATIONS: PVA-AA18NL & PUZ-AK18NL

|                           |                                                    |                                     |                                                    |
|---------------------------|----------------------------------------------------|-------------------------------------|----------------------------------------------------|
| Outdoor Unit              | Airflow Rate Cooling                               | CFM                                 | 1590                                               |
|                           | Airflow Rate Heating                               | CFM                                 | 1590                                               |
|                           | Defrost Method                                     |                                     | Reverse Cycle                                      |
|                           | Coating on Heat Exchanger (Bluefin, Sea Coast)     |                                     | Yes , Yes                                          |
|                           | Sound Pressure Level, Cooling <sup>1</sup>         | dB (A)                              | 44                                                 |
|                           | Sound Pressure Level, Heating <sup>2</sup>         | dB (A)                              | 46                                                 |
|                           | Compressor Type                                    |                                     | Twin Rotary                                        |
|                           | Compressor Model                                   |                                     | SRB140FQHMC-L1                                     |
|                           | Compressor Oil [Type // Charge]                    | // oz                               | RM68EH // 16                                       |
|                           | External Finish Color                              |                                     | Munsell 3Y 7.8/1.1                                 |
|                           | Unit Dimensions (W x D x H)                        | inch x inch x inch [ mm x mm x mm ] | 34-19/16 x 11-13/16 x 24-13/16 [ 871 x 300 x 630 ] |
|                           | Package Dimensions (W x D x H)                     | inch x inch x inch [ mm x mm x mm ] | 37-1/16 x 16-3/16 x 32-1/4 [ 941 x 411 x 819 ]     |
|                           | Unit Weight                                        | lbs [ kg ]                          | 99 [ 45 ]                                          |
| ODU Operating Temp. Range | Package Weight                                     | lbs [ kg ]                          | 112.44 [ 51 ]                                      |
|                           | Cooling Intake Air Temp [Maximum / Minimum*]       | F                                   | 115 / 23                                           |
|                           | Heating Intake Air Temp [Maximum / Minimum]        | F , F / F , F                       | 70 , 59 / -4 , -4                                  |
| Refrigerant               | Heating Thermal Lock-out / Re-start Temperatures** | F                                   | -13 / -4                                           |
|                           | Type                                               |                                     | R454B                                              |
|                           | Pre-Charged Refrigerant Amount                     | lbs , oz                            | 4 , 6                                              |
|                           | Maximum Pre-Charged Piping Length                  | ft [ m ]                            | 100 [ 30 ]                                         |
| Piping                    | Gas Pipe Size O.D. [Flared]                        | inch [ mm ]                         | 1/2 [ 12.72 ]                                      |
|                           | 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                            |                                     | 15                                                 |

### Notes

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<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

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# INDOOR UNIT ACCESSORIES: PVA-AA18NL

|                                       |                                                                                                                     |                                            |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Condensate                            | Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h                               | <input type="checkbox"/> X87-835           |
|                                       | Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h                                | <input type="checkbox"/> X88-721           |
|                                       | Blue Diamond Sensor Extension Cable 15 Ft                                                                           | <input type="checkbox"/> C13-103           |
|                                       | Refco Condensate Pump 100-240V up to 120k BTU/h                                                                     | <input type="checkbox"/> COMBI             |
|                                       | Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended] | <input type="checkbox"/> X87-711           |
|                                       | Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h                                                     | <input type="checkbox"/> X86-003           |
|                                       | Sauermann Condensate Pump 120-230V up to 60k BTU/h                                                                  | <input type="checkbox"/> SI30-230          |
| Control Interface                     | kumo station® for Comfort app                                                                                       | <input type="checkbox"/> PAC-WHS01HC-E     |
|                                       | Airzone Wireless Think Controller Black                                                                             | <input type="checkbox"/> AZZBSTHINKRN      |
|                                       | Airzone Wired Lite Controller White                                                                                 | <input type="checkbox"/> AZZBSLITECB       |
|                                       | IT Extender                                                                                                         | <input type="checkbox"/> PAC-WHS01IE-E     |
|                                       | Airzone Wireless Think Controller White                                                                             | <input type="checkbox"/> AZZBSTHINKRB      |
|                                       | Thermostat Interface for 3rd Party Thermostats                                                                      | <input type="checkbox"/> PAC-US445CN-1     |
|                                       | Operation and Error Status Output Adapter                                                                           | <input type="checkbox"/> PAC-SF40RM-E      |
|                                       | Airzone Wired Blueface Controller White                                                                             | <input type="checkbox"/> AZZBSBLUEZEROCB   |
|                                       | Airzone Wireless Lite Controller White                                                                              | <input type="checkbox"/> AZZBSLITERB       |
|                                       | Procon BACnet® and Modbus® Interface                                                                                | <input type="checkbox"/> PAC-UKPRC001-CN-1 |
|                                       | Wireless Interface 2 for Comfrot app                                                                                | <input type="checkbox"/> PAC-USWHS002-WF-2 |
|                                       | Airzone Wired Blueface Controller Black                                                                             | <input type="checkbox"/> AZZBSBLUEZEROCN   |
| Control Wire                          | 202PR shielded 1PR plenum wire for Airzone 500 ft reel                                                              | <input type="checkbox"/> CW2042S2-500      |
|                                       | 202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel                                                          | <input type="checkbox"/> CW2042S2-100      |
| Disconnect Switch                     | (30A/600V/UL) [fits 2" X 4" utility box] - White                                                                    | <input type="checkbox"/> TAZ-MS303W        |
|                                       | 30A600VUL fits 2 X 4 utility box - Black                                                                            | <input type="checkbox"/> TAZ-MS303         |
| Downflow Kit                          | Condensate Management Kit for downflow installation                                                                 | <input type="checkbox"/> CMA-1             |
| Electric Heat Lockout                 | Electric Heat Lockout                                                                                               | <input type="checkbox"/> ETC-211020-MIT    |
| Electric Kit Heats                    | 5kW Electric Heater Module - Small Cabinet                                                                          | <input type="checkbox"/> EH05-MPA-SB       |
|                                       | 8kW Electric Heater Module - Small Cabinet                                                                          | <input type="checkbox"/> EH08-MPA-SB       |
|                                       | 3kW Electric Heater Module - Small Cabinet                                                                          | <input type="checkbox"/> EH03-MPA-SB       |
| Lineset                               | 1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet                                                                    | <input type="checkbox"/> MLS141212T-50     |
|                                       | 1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet                                                                    | <input type="checkbox"/> MLS141212T-30     |
|                                       | 1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet                                                                   | <input type="checkbox"/> MLS141212T-100    |
|                                       | 1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet                                                                    | <input type="checkbox"/> MLS141212T-65     |
|                                       | 1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet                                                                    | <input type="checkbox"/> MLS141212T-15     |
| N/A                                   |                                                                                                                     | <input type="checkbox"/> Unknown           |
| Power Supplies & Auxiliary Components | ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models                                                        | <input type="checkbox"/> PAC-740           |
| Remote Sensor                         | Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models                                       | <input type="checkbox"/> PAC-USSEN002-FM-1 |
|                                       | Wireless temperature and humidity sensor for Comfort app                                                            | <input type="checkbox"/> PAC-USWHS003-TH-1 |
|                                       | Wall Mounted Remote Temperature Sensor                                                                              | <input type="checkbox"/> PAC-SE41TS-E      |
| Terminal Block                        | Separate Terminal Power Block                                                                                       | <input type="checkbox"/> SPTB1             |
| Terminal Signal Adapter               | 3-Pin Wiring Harness                                                                                                | <input type="checkbox"/> PAC-715AD         |
|                                       | 5-Pin Wiring Harness                                                                                                | <input type="checkbox"/> PAC-725AD         |
|                                       | Backup Heat Relay Kit                                                                                               | <input type="checkbox"/> CN24RELAY-KIT-CM3 |
| Wired Remote Controller               | Deluxe MA Wired Remote Controller                                                                                   | <input type="checkbox"/> PAR-42MAAUB       |
|                                       | Simple MA Remote Controller                                                                                         | <input type="checkbox"/> PAC-YT53CRAU-J    |
|                                       | Simple Direct Wired Remote Controller                                                                               | <input type="checkbox"/> PAC-SDW01RC-1     |
|                                       | Touch MA Remote Controller                                                                                          | <input type="checkbox"/> PAR-CT01MAU-SB    |
| Wireless Remote Controller            | Wireless RedLINK™ Remote Controller                                                                                 | <input type="checkbox"/> MHK2              |
|                                       | Wireless Remote Controller                                                                                          | <input type="checkbox"/> PAR-SL101A-E      |
|                                       | Lockdown Bracket for Wireless Handheld Remote Controllers                                                           | <input type="checkbox"/> RCMKP1CB          |
|                                       | Universal Wireless Receiver for PAR-FL32MA-E                                                                        | <input type="checkbox"/> PAR-FA32MA-W      |
| Notes                                 |                                                                                                                     |                                            |

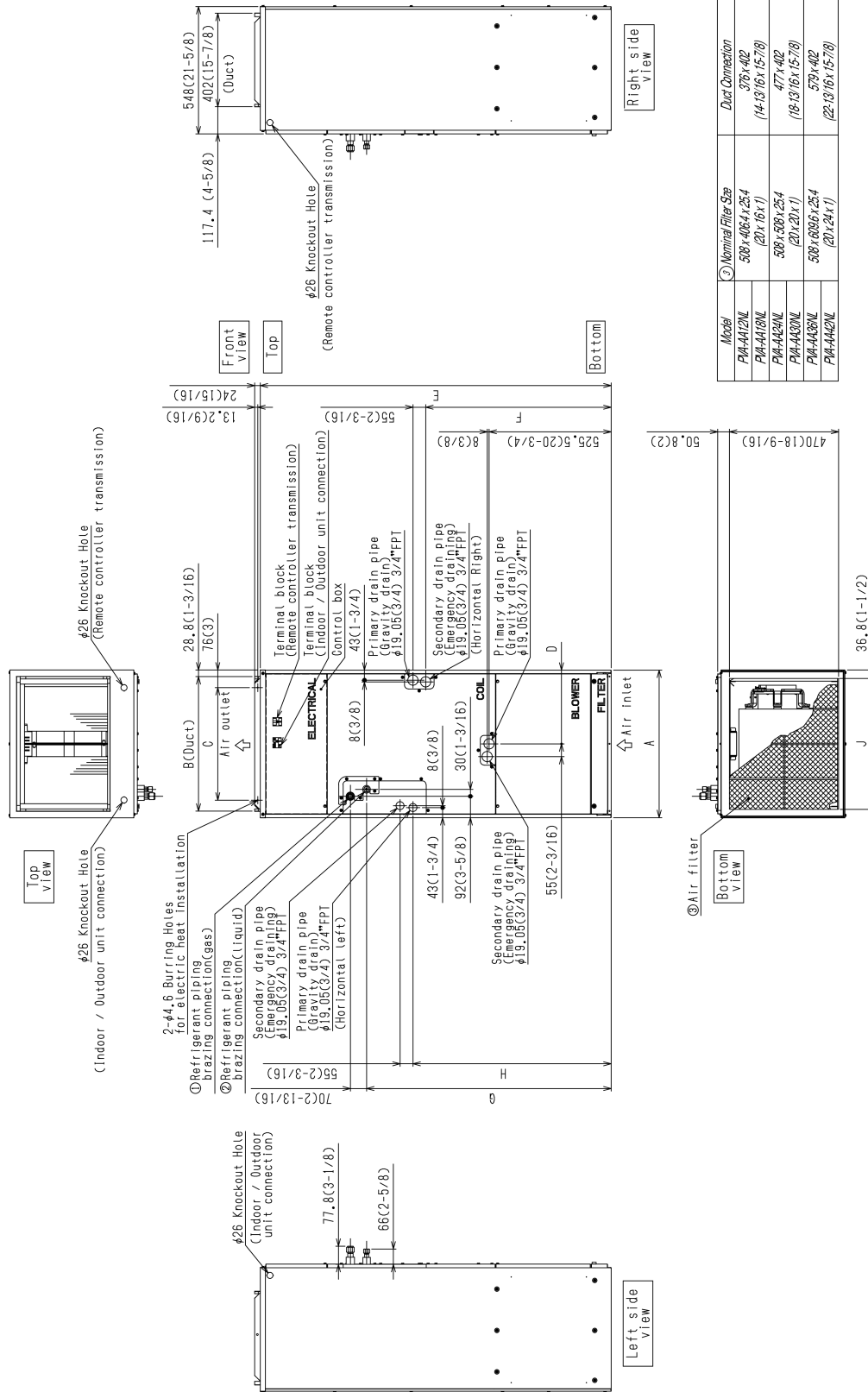
INDOOR UNIT ACCESSORIES: PVA-AA18NL

|                            |                                                                |                                       |
|----------------------------|----------------------------------------------------------------|---------------------------------------|
| Wireless Remote Controller | Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E) | <input type="checkbox"/> PAR-FL32MA-E |
| Notes                      |                                                                |                                       |

## OUTDOOR UNIT ACCESSORIES: PUZ-AK18NL

|                         |                                                     |                          |                |
|-------------------------|-----------------------------------------------------|--------------------------|----------------|
| Air Outlet Guide        | Air Outlet Guide                                    | <input type="checkbox"/> | PAC-SJ07SG-E   |
| Centralized Drain Pan   | Centralized Drain Pan                               | <input type="checkbox"/> | PAC-SG63DP-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 |
|                         | ControlService Tool                                 | <input type="checkbox"/> | PAC-SK52ST     |
| Drain Socket            | Drain Socket                                        | <input type="checkbox"/> | MAC-871DS      |
| Hail Guards             | Hail Guard                                          | <input type="checkbox"/> | HG-A5          |
| M-NET Converter         | M-Net Interface for P-Series                        | <input type="checkbox"/> | PAC-SJ96MA-E   |
| Mini-Split Wire         | 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       |
|                         | 14 Gauge 4 wire MiniSplit Cable50 ft roll           | <input type="checkbox"/> | S144-50        |
|                         | 14 Gauge 4 wire MiniSplit Cable250 ft roll          | <input type="checkbox"/> | S144-250       |
| Mounting Pad            | Condensing Unit Mounting Pad 16 x 36 x 3            | <input type="checkbox"/> | ULTRILITE1     |
| Snow/Rain Diverter      | SnowRain Diverter                                   | <input type="checkbox"/> | SRD-2          |
| Stand                   | 24 Single Fan Stand                                 | <input type="checkbox"/> | QSMS2401M      |
|                         | Condenser Wall Bracket - Stainless Steel Finish     | <input type="checkbox"/> | QSWBSS         |
|                         | Condenser Wall Bracket                              | <input type="checkbox"/> | QSWB2000M-1    |
|                         | Outdoor Unit 3-14 inch Mounting Base Pair - Plastic | <input type="checkbox"/> | DSD-400P       |
|                         | Outdoor Unit Stand 12 High                          | <input type="checkbox"/> | QSMS1201M      |
|                         | 18 Single Fan Stand                                 | <input type="checkbox"/> | QSMS1801M      |
| Terminal Signal Adapter | 3-Pin Wiring Harness                                | <input type="checkbox"/> | PAC-715AD      |
|                         | 5-Pin Wiring Harness                                | <input type="checkbox"/> | PAC-725AD      |
| Wind Baffle             | Front Wind Baffle                                   | <input type="checkbox"/> | WB-PA4         |
|                         | Rear Wind Baffle                                    | <input type="checkbox"/> | WB-RE4         |
|                         | Side Advanced Wind Baffle                           | <input type="checkbox"/> | WB-SD4         |
| <b>Notes</b>            |                                                     |                          |                |

# INDOOR UNIT DIMENSIONS: PVA-AA18NL



| Model      | ③ Nominal Pipe Size       | Duct Connection              |
|------------|---------------------------|------------------------------|
| PVA-AA12NL | 508×406×1254<br>(20×16×1) | 376×402<br>(14-13/16×15-7/8) |
| PVA-AA18NL | 508×508×1254<br>(20×20×1) | 477×402<br>(18-13/16×15-7/8) |
| PVA-AA24NL | 508×606×1254<br>(20×24×1) | 579×402<br>(22-13/16×15-7/8) |

| Model      | A       | B             | C            | D            | E            | F              | G              | H             | J            | ① Gas Pipe | ② Liquid Pipe |
|------------|---------|---------------|--------------|--------------|--------------|----------------|----------------|---------------|--------------|------------|---------------|
| PVA-AA12NL | 432(17) | 376(14-13/16) | 281(11-1/8)  | 224(8-7/8)   | 1275(50-1/4) | 680(26-13/16)  | 820(32-7/16)   | 735.5(29)     | 380(14-3/16) | 127(1/2)   | 6.35(1/4)     |
| PVA-AA18NL | 534(21) | 477(18-13/16) | 3825(15-1/8) | 2865(10-1/2) | 1378(54-1/4) | 737(29-1/16)   | 933.5(37-3/16) | 792(31-3/16)  | 461(18-3/16) |            | 9.52(3/8)     |
| PVA-AA24NL | 635(25) | 579(22-13/16) | 4846(19-1/8) | 3175(12-1/2) | 1511(59-1/2) | 738.5(31-7/16) | 1083(41-1/2)   | 883.5(33-5/8) | 553(22-3/16) | 1538(58)   |               |

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