

**PEAD-A18AA9 & PUY-A18NKA7  
MID STATIC HORIZONTAL-DUCTED INDOOR UNIT  
18,000 BTU/H COOLING ONLY OUTDOOR**



Job Name:

System Reference:

Date:



Indoor Unit.....PEAD-A18AA9

Outdoor Unit.....PUY-A18NKA7



**INDOOR UNIT FEATURES**

- Unobtrusive ceiling-concealed design for short-run ductwork
- Wide ranging external static pressure (0.14-0.60 in. WG)
- Built-in condensate lift mechanism (up to 27-9/16")
- Auto fan speed mode
- Optional FB Series filter boxes for easy access and service
- Ideal for residential homes, retail shopping centers, larger classrooms, office complexes, conference rooms, ballrooms, fitness centers, and more
- Multiple control options available:
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers

**OUTDOOR UNIT FEATURES**

- Variable speed INVERTER-driven compressor
- Pre-charged with refrigerant volume for piping length up to 70 ft
- Low ambient cooling down to -40°F providing 100% capacity (with wind baffles)
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency
- Seacoast protection\*
  - External Outer Panel: Phosphate coating + Acrylic-Enamel coating
  - Fan Motor Support: Epoxy resin coating (at edge face)
  - Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
  - Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
  - Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

\*Seacoast protection standard from 2022 production

# SPECIFICATIONS: PEAD-A18AA9 & PUY-A18NKA7

|                                          |                                                            |                     |                                                               |
|------------------------------------------|------------------------------------------------------------|---------------------|---------------------------------------------------------------|
| Cooling at 95°F <sup>1</sup>             | Maximum Capacity                                           | BTU/H               | 18,000                                                        |
|                                          | Rated Capacity                                             | BTU/H               | 18,000                                                        |
|                                          | Minimum Capacity                                           | BTU/H               | 7,800                                                         |
|                                          | Maximum Power Input                                        | W                   | 1,660                                                         |
|                                          | Rated Power Input                                          | W                   | 1,660                                                         |
|                                          | Moisture Removal                                           | Pints/h             | 3.7                                                           |
|                                          | Sensible Heat Factor                                       |                     | 0.77                                                          |
|                                          | Power Factor [208V / 230V]                                 | %                   | 91.0 / 91.0                                                   |
| Efficiency                               | SEER2                                                      |                     | 19.8                                                          |
|                                          | EER2 <sup>1</sup>                                          |                     | 10.8                                                          |
|                                          | HSPF2 [IV]                                                 |                     | —                                                             |
|                                          | ENERGY STAR® Certified                                     |                     | No                                                            |
| Electrical                               | Voltage, Phase, Frequency                                  |                     | 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                | 24                                                            |
|                                          | Short-circuit Current Rating [SCCR]                        | kA                  | 5                                                             |
|                                          | Recommended Fuse/Breaker Size (Outdoor)                    | A                   | 15                                                            |
|                                          | Recommended Wire Size [Indoor - Outdoor]                   | AWG                 | 14                                                            |
|                                          | Power Supply                                               |                     | Indoor unit is powered by the outdoor unit                    |
| Indoor Unit                              | MCA                                                        | A                   | 2.25                                                          |
|                                          | Fan Motor Full Load Amperage                               | A                   | 1.80                                                          |
|                                          | Fan Motor Output                                           | W                   | 121                                                           |
|                                          | Fan Motor Type                                             |                     | DC Motor                                                      |
|                                          | Airflow Rate at Cooling, Dry                               | CFM                 | 403–424–512–600                                               |
|                                          | Sound Pressure Level [Cooling]                             | dB[A]               | 28–29–34–37                                                   |
|                                          | External Static Pressure                                   | in.WG               | 0.14–0.2–0.28–0.4–0.6                                         |
|                                          | Drain Pipe Size                                            | In. [mm]            | 1-1/4 [32]                                                    |
|                                          | Condensate Lift Mechanism, Maximum Distance                | In. [mm]            | 27-9/16 [700]                                                 |
|                                          | Coating on Heat Exchanger                                  |                     | —                                                             |
|                                          | External Finish Color                                      |                     | Galvanized                                                    |
|                                          | Unit Dimensions                                            | W x D x H: In. [mm] | 35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]                    |
|                                          | Package Dimensions                                         | W x D x H: In. [mm] | 46-1/16 x 35-7/16 x 13 [1,170 x 900 x 330]                    |
|                                          | Unit Weight                                                | Lbs. [kg]           | 60 [27]                                                       |
|                                          | Package Weight                                             | Lbs. [kg]           | 71 [32]                                                       |
| Indoor Unit Operating Temperature Range  | Cooling Intake Air Temp [Maximum / Minimum]*               | °F                  | 95 DB, 71 WB / 67 DB, 57 WB                                   |
| Outdoor Unit                             | MCA                                                        | A                   | 11.0                                                          |
|                                          | MOCP                                                       | A                   | 28                                                            |
|                                          | Fan Motor Output                                           | W                   | 46                                                            |
|                                          | Airflow Rate [Cooling / Heating]                           | CFM                 | 1590                                                          |
|                                          | Refrigerant Control                                        |                     | Linear expansive valve                                        |
|                                          | Defrost Method                                             |                     | Reverse Cycle                                                 |
|                                          | Coating on Heat Exchanger                                  |                     | Blue Fin Coating***                                           |
|                                          | Sound Pressure Level, Cooling <sup>1</sup>                 | dB(A)               | 44                                                            |
|                                          | Compressor Type                                            |                     | DC INVERTER-driven Twin Rotary                                |
|                                          | Compressor Model                                           |                     | SNB130FQCMC-L1                                                |
|                                          | Compressor Rated Load Amps                                 | A                   | 7                                                             |
|                                          | Compressor Locked Rotor Amps                               | A                   | 12.0                                                          |
|                                          | Compressor Oil [Type // Charge]                            | oz.                 | FV50S // 16                                                   |
|                                          | External Finish Color                                      |                     | Ivory Munsell 3Y 7.8/1.1                                      |
|                                          | Base Pan Heater                                            |                     | N/A                                                           |
|                                          | Unit Dimensions                                            | W x D x H: In. [mm] | 31-13/16+2-7/16 x 11-13/16 x 24-13/16 [809 (+62) x 300 x 630] |
|                                          | Package Dimensions                                         | W x D x H: In. [mm] | 38 x 17 x 33 [941 x 411 x 819]                                |
|                                          | Unit Weight                                                | Lbs. [kg]           | 99 [44]                                                       |
|                                          | Package Weight                                             | Lbs. [kg]           | 111 [50]                                                      |
| Outdoor Unit Operating Temperature Range | Cooling Air Temp [Maximum / Minimum]*                      | °F                  | 115 DB / -20 DB                                               |
| Refrigerant                              | Type                                                       |                     | R410A                                                         |
|                                          | Pre-Charged Refrigerant Amount                             | Lbs, oz             | 4.0, 14.0                                                     |
|                                          | Maximum Pre-Charged Piping Length                          | Ft. [m]             | 70.0 [21.0]                                                   |
|                                          | Additional Refrigerant Charge Per Additional Piping Length | oz./Ft. [g/m]       | 0.5 [10]                                                      |
| Piping                                   | Gas Pipe Size O.D. [Flared]                                | In.[mm]             | 1/2 [12.7]                                                    |
|                                          | Liquid Pipe Size O.D. [Flared]                             | In.[mm]             | 1/4 [6.35]                                                    |
|                                          | Maximum Piping Length                                      | Ft. [m]             | 165 [50]                                                      |
|                                          | Maximum Height Difference                                  | Ft. [m]             | 100 [30]                                                      |
|                                          | Maximum Number of Bends                                    |                     | 15                                                            |

## NOTES:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed)    <sup>1</sup>Cooling (Indoor // Outdoor)

°F    80 DB, 67 WB // 95 DB, 75 WB

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

- Wind baffles required to operate below 23°F DB in cooling mode.
- Cooling-only system with advanced wind baffle: -40°F - 115°F.
- Refer to wind baffle documentation for further information.

\*\*\*Blue Fin Coating Standard from 2022 production:

- PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U\*\*\*\*\*
- PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U\*\*\*\*\*

## INDOOR UNIT ACCESSORIES: PEAD-A18AA9

|                            |                                                                                             |                   |
|----------------------------|---------------------------------------------------------------------------------------------|-------------------|
| Control Interface          | Airzone Wired Blueface Controller (White)                                                   | AZZBSBLUEZEROCB   |
|                            | Airzone Wired Lite Controller (White)                                                       | AZZBSLITECB       |
|                            | Airzone Wireless Lite Controller (White)                                                    | AZZBSLITERB       |
|                            | Airzone Wireless Think Controller (White)                                                   | AZZBSTHINKRB      |
|                            | Backup Heat Relay Kit Adapter for CN24 or CN152 on ducted models                            | CN24RELAY-KIT-CM3 |
|                            | IT Extender for kumo station™                                                               | PAC-WHS01IE-E     |
|                            | kumo station™ for kumo cloud®                                                               | PAC-WHS01HC-E     |
|                            | On/Off Input Adapter for CN32 and Forced Fan Operation Input Adapter for SWE                | PAC-715AD         |
|                            | Operation and Error Status Output Adapter                                                   | PAC-SF40RM-E      |
|                            | Procon BACnet® and Modbus® Interface                                                        | PAC-UKPRC001-CN-1 |
|                            | Thermostat Interface for 3rd Party Thermostats                                              | PAC-US445CN-1     |
|                            | USNAP Adapter for Demand Response                                                           | PAC-WHS01UP-E     |
|                            | Wireless Interface for kumo cloud®                                                          | PAC-USWHS002-WF-2 |
| 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 kumo cloud®                                    | PAC-USWHS003-TH-1 |
| Wired Remote Controller    | Deluxe MA Wired Remote Controller†                                                          | PAR-41MAAU        |
|                            | Simple Ductless Wired Remote Controller                                                     | PAC-SDW01RC-1     |
|                            | Simple MA Remote Controller                                                                 | PAC-YT53CRAU-J    |
|                            | Touch MA Wired Remote Controller                                                            | PAR-CT01MAU-SB    |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller & Receiver kit                                     | MHK2              |
|                            | Lockdown Bracket for Wireless Handheld Remote Controllers                                   | RCMKP1CB          |
|                            | Universal Wireless MA Handheld Remote Controller                                            | PAR-FL32MA-E      |
|                            | Universal Wireless Receiver for PAR-FL32MA-E                                                | PAR-FA32MA-W      |
|                            | Wireless Signal Receiver                                                                    | PAR-SA9CA-E       |
| Condensate                 | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | X87-721           |
|                            | Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H             | X86-003           |
|                            | Blue Diamond Sensor Extension Cable — 15 Ft.                                                | C13-103           |
|                            | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H                                     | COMBI             |
| Control Wire               | 20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel                             | CW2042S2-100      |
|                            | 20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel                                 | CW2042S2-500      |
| Disconnect Switch          | (30A/600V/UL) [fits 2" X 4" utility box] - Black                                            | TAZ-MS303         |
|                            | (30A/600V/UL) [fits 2" X 4" utility box] - White                                            | TAZ-MS303W        |
| Filter Box                 | Filter Box with MERV 13 Filter                                                              | FBM2-2-A          |
| Lineset                    |                                                                                             | Lineset 1/4x1/2   |
|                            | 100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)                                    | MLS141212T-100    |
|                            | 15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)                                      | MLS141212T-15     |
|                            | 30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)                                      | MLS141212T-30     |
|                            | 50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)                                      | MLS141212T-50     |
|                            | 65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)                                      | MLS141212T-65     |

**NOTES:**

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

## OUTDOOR UNIT ACCESSORIES: PUY-A18NKA7

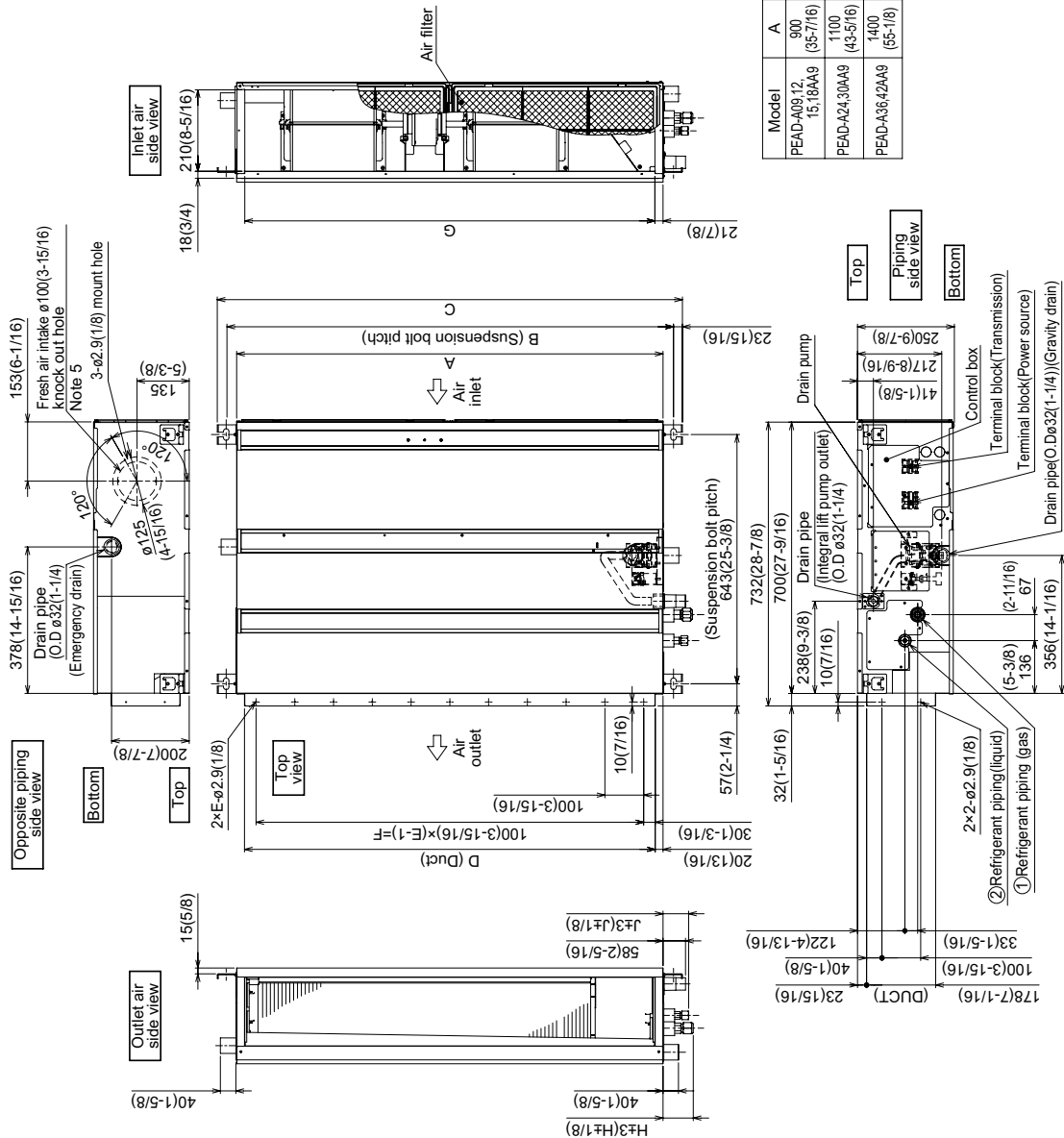
|                       |                                                      |              |
|-----------------------|------------------------------------------------------|--------------|
| Air Outlet Guide      | Air Outlet Guide                                     | PAC-SJ07SG-E |
| Centralized Drain Pan | Centralized Drain Pan                                | PAC-SG63DP-E |
| Control/Service Tool  | Control/Service Tool                                 | PAC-SK52ST   |
|                       | M- & P-Series Maintenance Tool Cable Set             | M21EC0397    |
|                       | USB Conversion Cable for PAC-USCMS-MN-1              | M21EC1397    |
| Drain Socket          | Drain Socket                                         | MAC-871DS    |
| Hail Guards           | Hail Guard                                           | HG-A5        |
| M-NET Converter       | M-NET Interface for PUZ-A-NKA7 12 & 18 outdoor units | PAC-SJ96MA-E |
| Mini-Split Wire       | 14 Gauge, 4 wire MiniSplit Cable—250 ft. roll        | S144-250     |
|                       | 14 Gauge, 4 wire MiniSplit Cable—250 ft. roll        | SW144-250    |
|                       | 14 Gauge, 4 wire MiniSplit Cable—50 ft. roll         | S144-50      |
|                       | 14 Gauge, 4 wire MiniSplit Cable—50 ft. roll         | SW144-50     |
|                       | 16 Gauge, 4 wire MiniSplit Cable—250 ft. roll        | S164-250     |
|                       | 16 Gauge, 4 wire MiniSplit Cable—250 ft. roll        | SW164-250    |
|                       | 16 Gauge, 4 wire MiniSplit Cable—50 ft. roll         | S164-50      |
|                       | 16 Gauge, 4 wire MiniSplit Cable—50 ft. roll         | SW164-50     |
| Mounting Pad          | Condensing Unit Mounting Pad: 16" x 36" x 3"         | ULTRILITE1   |
| Snow/Rain Diverter    | Snow/Rain Diverter                                   | SRD-2        |
| Stand                 | 18" Single Fan Stand                                 | QSMS1801M    |
|                       | 24" Single Fan Stand                                 | QSMS2401M    |
|                       | Condenser Wall Bracket                               | QSWB2000M-1  |
|                       | Condenser Wall Bracket - Stainless Steel Finish      | QSWBSS       |
|                       | Outdoor Unit Stand — 12" High                        | QSMS1201M    |
| Wind Baffle           | Front Wind Baffle                                    | WB-PA4       |
|                       | Rear Wind Baffle                                     | WB-RE4       |
|                       | Side Advanced Wind Baffle                            | WB-SD4       |

# INDOOR UNIT DIMENSIONS: PEAD-A18AA9

## INDOOR UNIT

### PEAD-A09, 12, 15, 18, 24, 30, 36, 42AA9

- Notes
1. Use an M10 screw for the suspension bolt (field supply).
  2. Keep the service space for maintenance at the bottom.
  3. This drawing is for PEAD-A09-12-15-18-24-30AA9 models which have 2 fans. PEAD-A36-42AA9 models have 3 fans.
  4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
  5. Heat air to 0°C(32°F) or higher when taking fresh air with a fresh air intake.

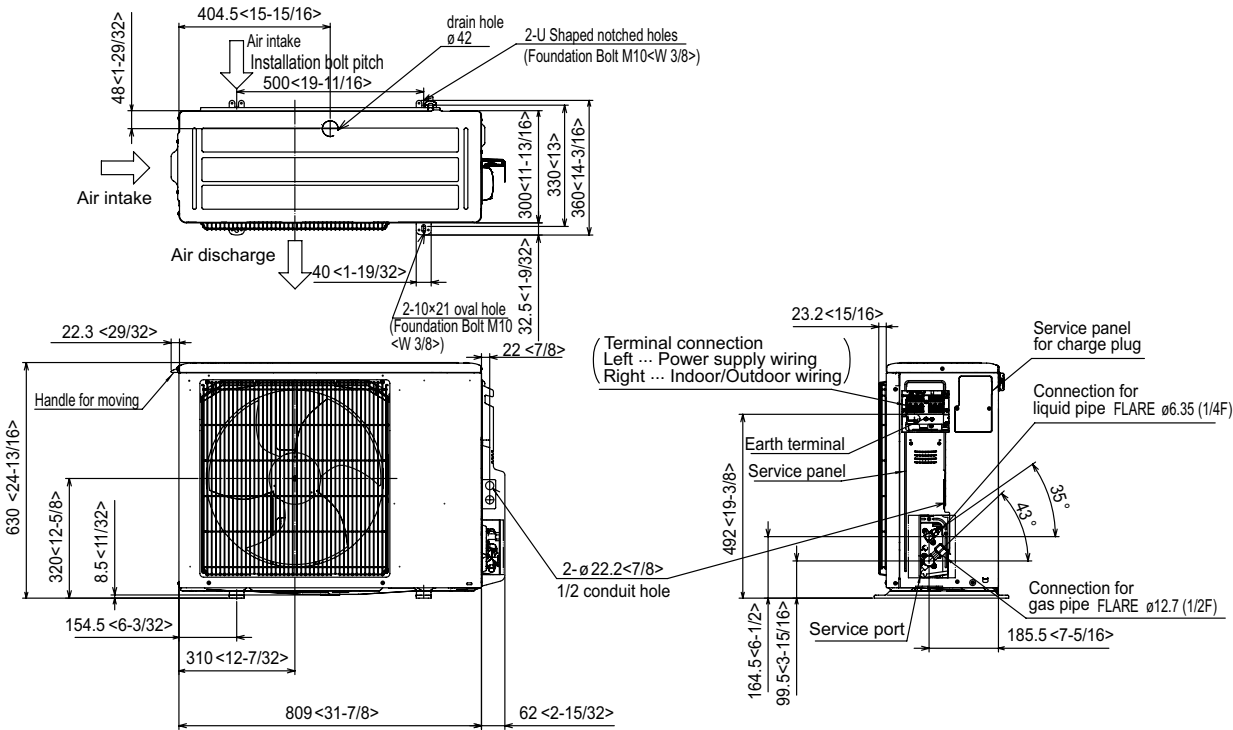


| Model               | J  | ① Gas pipe   | ② Liquid pipe |
|---------------------|----|--------------|---------------|
| PEAD-A09AA9         | 62 | ø9.52 (3/8)  | ø6.35 (1/4)   |
| PEAD-A12, 15, 18AA9 | 62 | ø12.7 (1/2)  | ø6.35 (1/4)   |
| PEAD-A24, 30AA9     | 66 | ø15.88 (5/8) | ø9.52 (3/8)   |
| PEAD-A36, 42AA9     | 66 | ø15.88 (5/8) | ø9.52 (3/8)   |

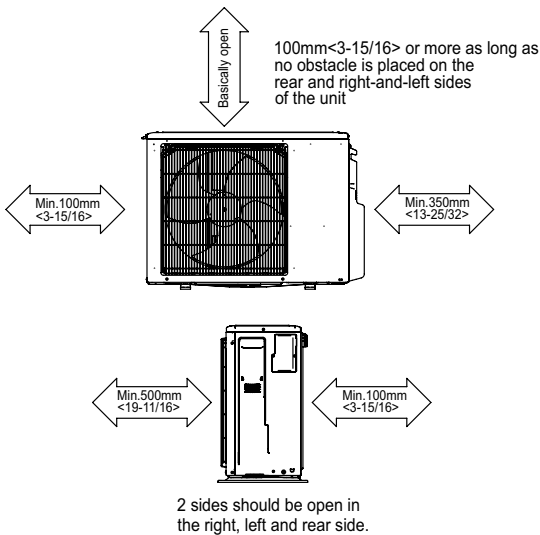
| Model                   | A             | B              | C              | D              | E            | F              | G               | H          |
|-------------------------|---------------|----------------|----------------|----------------|--------------|----------------|-----------------|------------|
| PEAD-A09, 12, 15, 18AA9 | 900 (35-7/16) | 954 (37-9/16)  | 1000 (39-3/8)  | 860 (33-7/8)   | 9 (31-1/2)   | 800 (31-13/16) | 858 (33-13/16)  | 72 (2-7/8) |
| PEAD-A24, 30AA9         | 1100 (43-3/8) | 1154 (45-7/16) | 1200 (47-1/4)  | 1080 (41-3/4)  | 11 (39-3/8)  | 1000 (39-3/8)  | 1058 (41-11/16) | 78 (3-1/8) |
| PEAD-A36, 42AA9         | 1400 (55-1/8) | 1454 (57-1/4)  | 1500 (59-1/16) | 1360 (53-9/16) | 14 (51-3/16) | 1300 (51-3/16) | 1358 (53-1/2)   | 78 (3-1/8) |

## OUTDOOR UNIT DIMENSIONS: PUY-A18NKA7

Unit: mm&lt;in&gt;



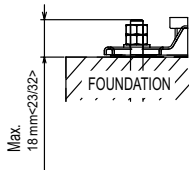
## Free space around the outdoor unit (basic example)



## FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts, washers and nut must be purchased locally).

<Foundation bolt height>



## PIPING-WIRING DIRECTION

Piping and wiring connection can be made from the rear direction only.

FORM# PEAD-A18AA9 & PUY-A18NKA7 - 202408

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

