

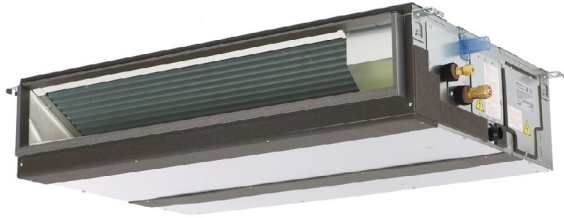
# PEAD-A24AA9 MID STATIC HORIZONTAL-DUCTED INDOOR UNIT



Job Name:

System Reference:

Date:



## GENERAL 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

| Specifications                  |                                             |                     | System                                       |
|---------------------------------|---------------------------------------------|---------------------|----------------------------------------------|
| Unit Type                       |                                             |                     | PEAD-A24AA9                                  |
| Cooling Capacity <sup>1,3</sup> |                                             | BTU/H               | 24,000                                       |
| Heating Capacity <sup>2,3</sup> |                                             | BTU/H               | 24,000                                       |
| 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                                            |
| Indoor Unit                     | MCA                                         | A                   | 2.25                                         |
|                                 | Fan Motor Full Load Amperage                | A                   | 1.80                                         |
|                                 | Fan Motor Output                            | W                   | 121                                          |
|                                 | 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] | 43-5/16 x 28-7/8 x 9-7/8 [1,100 x 732 x 250] |
|                                 | Package Dimensions                          | W x D x H: In. [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]           | 78 [35]                                      |
| Refrigerant                     | Type                                        |                     | R410A                                        |
| Piping                          | Gas Pipe Size O.D. [Flared]                 | In.[mm]             | 5/8 [15.88]                                  |
|                                 | Liquid Pipe Size O.D. [Flared]              | In.[mm]             | 3/8 [9.52]                                   |

## NOTES:

Conditions

<sup>1</sup>Cooling (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

<sup>2</sup>Heating at 47°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 47 DB, 43 WB

<sup>3</sup>Capacity varies based on the number of indoor units operating and the model of the Multi-zone Outdoor Unit. For reference to connected capacity charts, please refer Multi-zone Outdoor Unit Operational Performance.

## INDOOR UNIT ACCESSORIES: PEAD-A24AA9

|                            |                                                                                             |                                            |
|----------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------|
| Control Interface          | 3-Pin Connector                                                                             | <input type="checkbox"/> PAC-715AD         |
|                            | Airzone ZBS Wired Blueface Principal Controller White                                       | <input type="checkbox"/> AZZBSBLUEFACECB   |
|                            | Airzone ZBS Wired Blueface Principal Controller White                                       | <input type="checkbox"/> AZZBSBLUEZEROCB   |
|                            | Airzone ZBS Wired Lite Controller White                                                     | <input type="checkbox"/> AZZBSLITECB       |
|                            | Airzone ZBS Wireless Lite Controller White                                                  | <input type="checkbox"/> AZZBSLITERB       |
|                            | Airzone ZBS Wireless Think Controller White                                                 | <input type="checkbox"/> AZZBSTHINKRB      |
|                            | CN24 Relay Kit                                                                              | <input type="checkbox"/> CN24RELAY-KIT-CM3 |
|                            | IT Extender                                                                                 | <input type="checkbox"/> PAC-WHS01IE-E     |
|                            | kumo station® for kumo cloud®                                                               | <input type="checkbox"/> PAC-WHS01HC-E     |
|                            | Procon BACnet® and Modbus® Interface                                                        | <input type="checkbox"/> PAC-UKPRC001-CN-1 |
|                            | Remote Operation Adapter†                                                                   | <input type="checkbox"/> PAC-SF40RM-E      |
|                            | Thermostat Interface                                                                        | <input type="checkbox"/> PAC-US445CN-1     |
|                            | USNAP Adapter                                                                               | <input type="checkbox"/> PAC-WHS01UP-E     |
|                            | Wireless Interface for kumo cloud®                                                          | <input type="checkbox"/> PAC-USWHS002-WF-2 |
| Remote Sensor              | Flush Mount Remote Temperature Sensor                                                       | <input type="checkbox"/> PAC-USSEN002-FM-1 |
|                            | Remote Temperature Sensor                                                                   | <input type="checkbox"/> PAC-SE41TS-E      |
|                            | Wireless temperature and humidity sensor for kumo cloud®                                    | <input type="checkbox"/> PAC-USWHS003-TH-1 |
| Wired Remote Controller    | Deluxe Wired MA Remote Controller†                                                          | <input type="checkbox"/> PAR-40MAAU        |
|                            | Simple Ductless Wired Remote Controller                                                     | <input type="checkbox"/> PAC-SDW01RC-1     |
|                            | Simple MA Remote Controller†                                                                | <input type="checkbox"/> PAC-YT53CRAU-J    |
|                            | Touch MA Controller†                                                                        | <input type="checkbox"/> PAR-CT01MAU-SB    |
| Wireless Remote Controller | kumo touch™ RedLINK™ Wireless Controller                                                    | <input type="checkbox"/> MHK2              |
|                            | Lockdown bracket for remote controller                                                      | <input type="checkbox"/> RCMKP1CB          |
|                            | Wireless MA Receiver                                                                        | <input type="checkbox"/> PAR-FA32MA-W      |
|                            | Wireless MA Remote Controller                                                               | <input type="checkbox"/> PAR-FL32MA-E      |
| Condensate                 | Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended] | <input type="checkbox"/> X87-721           |
|                            | Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor                      | <input type="checkbox"/> X87-835           |
|                            | Blue Diamond Sensor Extension Cable — 15 Ft.                                                | <input type="checkbox"/> C13-103           |
|                            | Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H                                     | <input type="checkbox"/> COMBI             |
| Control Wire               | 20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel                             | <input type="checkbox"/> CW2042S2-100      |
|                            | 20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel                                 | <input type="checkbox"/> CW2042S2-500      |
| Disconnect Switch          | (30A/600V/UL) [fits 2" X 4" utility box] - Black                                            | <input type="checkbox"/> TAZ-MS303         |
|                            | (30A/600V/UL) [fits 2" X 4" utility box] - White                                            | <input type="checkbox"/> TAZ-MS303W        |
| Filter Box                 | Filter Box with MERV 13 Filter                                                              | <input type="checkbox"/> FBM2-3-A          |
| Lineset                    | 10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)                                      | <input type="checkbox"/> MPLS385812T-10    |
|                            | 100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)                                    | <input type="checkbox"/> MPLS385812T-100   |
|                            | 15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)                                      | <input type="checkbox"/> MPLS385812T-15    |
|                            | 30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)                                      | <input type="checkbox"/> MPLS385812T-30    |
|                            | 50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)                                      | <input type="checkbox"/> MPLS385812T-50    |
|                            | 65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)                                      | <input type="checkbox"/> MPLS385812T-65    |

**NOTES:**

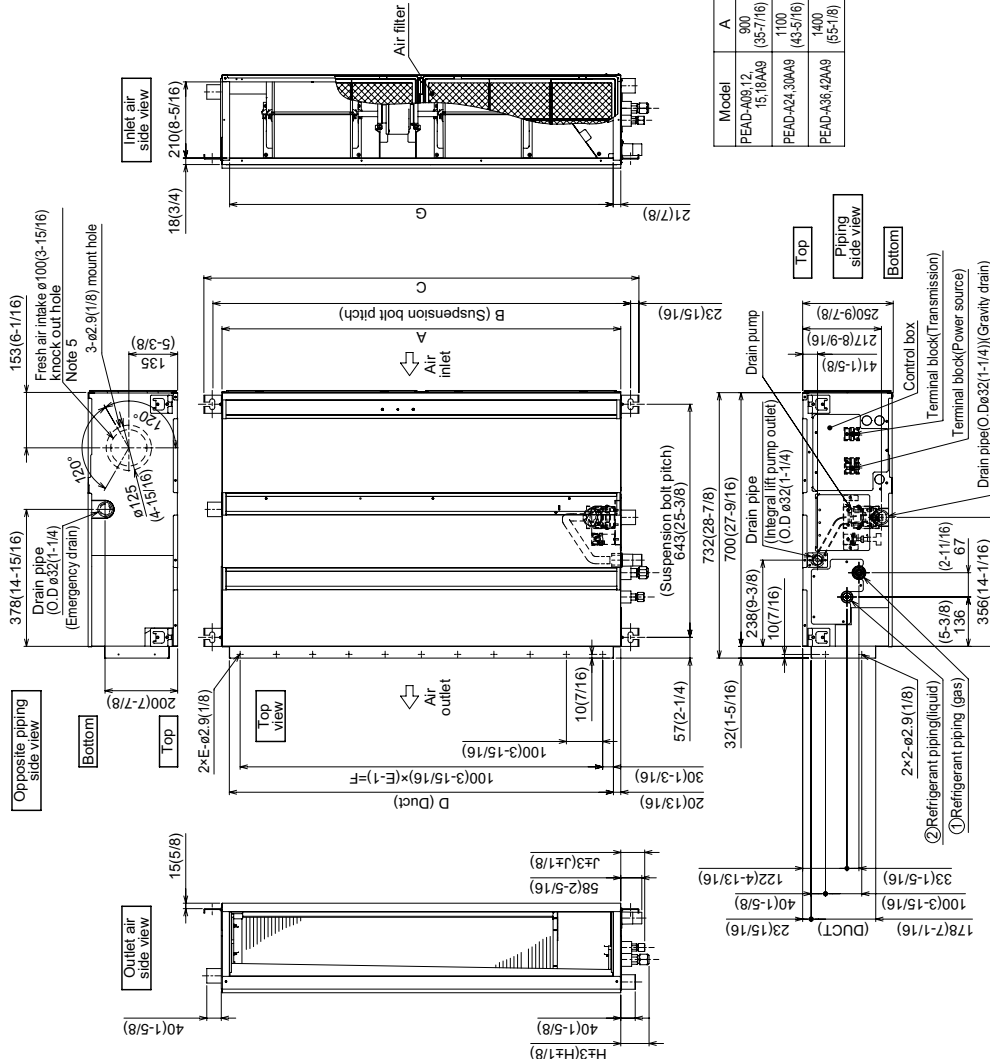
†PAC-SF40RM-E (Unable to use with wireless remote controller)

# INDOOR UNIT DIMENSIONS: PEAD-A24AA9

## 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.
  - 4 PEAD-A36-42AA9 models have 3 fans. 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<br>(2-1/2) | ø9.52<br>(3/8)  | ø6.35<br>(1/4) |
| PEAD-A12-15-18AA9 | 62<br>(2-1/2) | ø12.7<br>(1/2)  | ø6.35<br>(1/4) |
| PEAD-A24-30AA9    | 66<br>(2-5/8) | ø15.88<br>(5/8) | ø9.52<br>(3/8) |
| PEAD-A36-42AA9    | 66<br>(2-5/8) | ø15.88<br>(5/8) | ø9.52<br>(3/8) |

| Model                | A                 | B                 | C                 | D                 | E  | F                 | G                  | H              |
|----------------------|-------------------|-------------------|-------------------|-------------------|----|-------------------|--------------------|----------------|
| PEAD-A09-12-15-18AA9 | 900<br>(35-7/16)  | 954<br>(37-9/16)  | 1000<br>(39-3/8)  | 860<br>(33-7/8)   | 9  | 800<br>(31-1/2)   | 858<br>(33-13/16)  | 72<br>(2-7/8)  |
| PEAD-A24-30AA9       | 1100<br>(43-5/16) | 1154<br>(45-7/16) | 1200<br>(47-1/4)  | 1060<br>(41-3/4)  | 11 | 1000<br>(39-3/8)  | 1058<br>(41-11/16) | 78<br>(3-1/8)  |
| PEAD-A36-42AA9       | 1400<br>(55-1/8)  | 1454<br>(57-1/4)  | 1500<br>(59-1/16) | 1360<br>(53-9/16) | 14 | 1300<br>(51-3/16) | 1358<br>(53-1/2)   | 138<br>(5-1/2) |

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FORM# PEAD-A24AA9 - 202403