

PAA-BA42NL & PUZ-AK42NL  
42,000 BTU/H CASED COIL INDOOR UNIT  
42,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....PAA-BA42NL

Outdoor Unit.....PUZ-AK42NL



#### INDOOR UNIT FEATURES

- Available Widths: Available in 14.5", 17.5", and 21" widths
- Control Compatibility: Compatible with any thermostatically controlled (24VAC) natural gas or LP furnace\*
- Flared piping connection
- Furnace Compatible: Compatible with any thermostatically controlled gas furnace, intelli-HEAT® allows for Intelligent Switchover between the furnace and heat pump.\*

\*Mitsubishi Electric air-conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces

- High quality drain pan: High quality drain pan material with high heat tolerance and low moisture absorption
- Included components: Includes cased coil and control box
- Intelligent Switchover: The intelli-HEAT® Intelligent Switchover function automatically switches from the all-electric heat pump heating to the gas furnace based on the ambient temperature to optimize economic and lower carbon footprint priorities. When indoor temperatures are not maintained for 24-29 minutes due to extreme cold, the system switches to the gas furnace heating automatically to ensure consistent comfort.
- 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.
- Multi-zone: A multi-zone unit provides the temperature management of multiple zones within a building.
- Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers
- Optimized heat exchange: Optimized heat exchanger design for increased efficiency and longevity
- Optional humidifier control and ERV control
- Oxygen free copper coils

#### OUTDOOR UNIT FEATURES

- 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.
- Continuous operation: 24-hour continuous operation (cooling mode)
- Fast restart
- High pressure protection
- High pressure/temperature protection
- INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- Low ambient cooling : Low ambient cooling down to 0°F providing 100% capacity
- Pre-charged refrigerant: 12k -30k BTU/h come pre-charged for ease of installation. 24k – 30k BTU/h are pre-charged to maximum line length of 165 feet. 12k – 18k BTU/h are pre-charged for up to 100 feet of line length. For units with a capacity of 36,000 BTU/h and above, additional refrigerant charges will be required.
- Seacoast protection: Seacoast Protection, made standard in the 2022 production, features a robust anti-corrosion system with phosphate and acrylic-enamel coated external panels, epoxy resin-coated fan motor support and separator assembly valve beds, and Blue Fin treatment for the heat exchanger coil. These components are rated for 2,000 hours of durability under ASTM B117 testing standards, ensuring longevity in corrosive coastal environments.
- Superior energy and operational efficiency

# SPECIFICATIONS: PAA-BA42NL & PUZ-AK42NL

|                             |                                              |                                      |                                               |
|-----------------------------|----------------------------------------------|--------------------------------------|-----------------------------------------------|
| Cooling at 95F <sup>1</sup> | Maximum Capacity                             | Btu/h                                | 43,000                                        |
|                             | Rated Capacity                               | Btu/h                                | 42,000                                        |
|                             | Minimum Capacity                             | Btu/h                                | 15,400                                        |
|                             | Maximum Power Input                          | W                                    | 4,200                                         |
|                             | Rated Power Input                            | W                                    | 4,040                                         |
|                             | Moisture Removal                             | Pints/h                              | 11.1                                          |
|                             | Sensible Heat Factor                         | -                                    | 0.72                                          |
| Heating at 47F <sup>2</sup> | Power Factor [208V / 230V]                   | %                                    | 90 / 90                                       |
|                             | Maximum Capacity                             | Btu/h                                | 50,000                                        |
|                             | Rated Capacity                               | Btu/h                                | 50,000                                        |
|                             | Minimum Capacity                             | Btu/h                                | 18,900                                        |
|                             | Maximum Power Input                          | W                                    | 4,730                                         |
|                             | Rated Power Input                            | W                                    | 4,730                                         |
|                             | Power Factor [208V / 230V]                   | %                                    | 91 / 91                                       |
| Heating at 17F <sup>3</sup> | Maximum Capacity                             | Btu/h                                | 32,600                                        |
|                             | Rated Capacity                               | Btu/h                                | 32,600                                        |
|                             | Maximum Power Input                          | W                                    | 3,670                                         |
|                             | Rated Power Input                            | W                                    | 3,670                                         |
| Heating at 5F <sup>5</sup>  | Maximum Capacity                             | Btu/h                                | 26,600                                        |
|                             | Maximum Power Input                          | W                                    | 3,390                                         |
| Heating at -4F <sup>6</sup> | Maximum Capacity                             | Btu/h                                | 23,900                                        |
| Efficiency                  | SEER2                                        |                                      | 17.1                                          |
|                             | EER2 <sup>1</sup>                            |                                      | 10.3                                          |
|                             | HSPF2 [IV]                                   |                                      | 9.3                                           |
|                             | COP at 47°F <sup>2</sup>                     |                                      | 3.1                                           |
|                             | COP at 17°F at Maximum Capacity <sup>3</sup> |                                      | 2.6                                           |
|                             | COP at 5°F at Maximum Capacity <sup>5</sup>  |                                      | 2.3                                           |
|                             | COP at -4°F at Maximum Capacity <sup>6</sup> |                                      | 2.22                                          |
| Electrical                  | ENERGY STAR® Certified                       |                                      | No                                            |
|                             | 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                                    | 35                                            |
| Indoor Unit                 | Recommended Wire Size [Indoor - Outdoor]     | AWG                                  | 14                                            |
|                             | MCA                                          | A                                    | 0.2                                           |
|                             | Rated Airflow, Dry                           | CFM                                  | 1,225                                         |
|                             | Maximum Airflow, Dry                         | CFM                                  | 1,660                                         |
|                             | Minimum Airflow, Dry                         | CFM                                  | 936                                           |
|                             | Internal Static Pressure [at Rated CFM]      | in.WG                                | 0.3                                           |
|                             | Drain Pipe Size O.D.                         | inch [mm]                            | 3/4 [19.05]                                   |
|                             | External Finish Color                        |                                      | Galvanized Steel                              |
|                             | Unit Dimensions (W x D x H)                  | inch x inch x inch<br>[mm x mm x mm] | 17-1/2 x 21-3/8 x 32 [445 x 543 x 812]        |
|                             | Package Dimensions (W x D x H)               | inch x inch x inch<br>[mm x mm x mm] | 19-5/16 x 25-5/16 x 37-8/16 [491 x 695 x 953] |
|                             | Unit Weight [Cased Coil Only]                | lbs [kg]                             | 72.8 [33.0]                                   |
|                             | Control Box Weight                           | lbs [kg]                             | 5.1 [2.3]                                     |
|                             | Package Weight                               | lbs [kg]                             | 97.0 [44]                                     |
| IDU Operating Temp. Range   | Cooling Intake Air Temp [Maximum / Minimum]  | °FDB, °FWB / °FDB,<br>°FWB           | 90, 73 / 66, 59                               |
|                             | Heating Intake Air Temp [Maximum / Minimum]  | °FDB                                 | 83 / 50                                       |

## 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)

<sup>6</sup>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.

# SPECIFICATIONS: PAA-BA42NL & PUZ-AK42NL

|                           |                                                            |                                      |                                                   |
|---------------------------|------------------------------------------------------------|--------------------------------------|---------------------------------------------------|
| Outdoor Unit              | MCA                                                        | A                                    | 34                                                |
|                           | MOCP                                                       | A                                    | 56                                                |
|                           | Fan Motor Output                                           | W                                    | 74+74                                             |
|                           | Airflow Rate Cooling                                       | CFM                                  | 3,910                                             |
|                           | Airflow Rate Heating                                       | CFM                                  | 3,910                                             |
|                           | Defrost Method                                             |                                      | Reverse Cycle                                     |
|                           | Coating on Heat Exchanger (Bluefin, Sea Coast)             |                                      | Yes, Yes                                          |
|                           | Sound Pressure Level, Cooling <sup>1</sup>                 | dB (A)                               | 52                                                |
|                           | Sound Pressure Level, Heating <sup>2</sup>                 | dB (A)                               | 53                                                |
|                           | Compressor Type                                            |                                      | Twin Rotary                                       |
|                           | Compressor Model                                           |                                      | MRB36FEGMC                                        |
|                           | Compressor Oil [Type // Charge]                            | Type // oz                           | RM68EH // 45                                      |
|                           | 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] | 41-11/32 x 14 x 52-43/64 [1,050 x 355 x 1,338]    |
|                           | Package Dimensions (W x D x H)                             | inch x inch x inch<br>[mm x mm x mm] | 41-15/16 x 17-3/4 x 58-5/16 [1,090 x 450 x 1,480] |
|                           | Unit Weight                                                | lbs [kg]                             | 224 [102]                                         |
|                           | Package Weight                                             | lbs [kg]                             | 251 [114]                                         |
| ODU Operating Temp. Range | Cooling Intake Air Temp [Maximum / Minimum*]               | °FDB                                 | 115 / 23                                          |
|                           | Heating Intake Air Temp [Maximum / Minimum]                | °FDB, °FWB / °FDB, °FWB              | 70, 59 / -4, -4                                   |
|                           | Heating Thermal Lock-out / Re-start Temperatures**         | °FDB                                 | -13 / -4                                          |
| Refrigerant               | Type                                                       |                                      | R454B                                             |
|                           | Pre-Charged Refrigerant Amount                             | lbs, oz                              | 9, 14                                             |
|                           | Maximum Pre-Charged Piping Length                          | ft [m]                               | 100 [30]                                          |
|                           | Additional Refrigerant Charge Per Additional Piping Length | oz/ft                                | 0.6                                               |
| Piping                    | Gas Pipe Size O.D. [Flared]                                | inch [mm]                            | 5/8 [15.88]                                       |
|                           | Liquid Pipe Size O.D. [Flared]                             | inch [mm]                            | 3/8 [9.52]                                        |
|                           | Maximum Piping Length                                      | ft [m]                               | 165 [50]                                          |
|                           | Maximum Height Difference                                  | ft [m]                               | 100 [30]                                          |
|                           | Maximum Number of Bends                                    |                                      | 15                                                |

## NOTES

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<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)

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## INDOOR UNIT ACCESSORIES: PAA-BA42NL

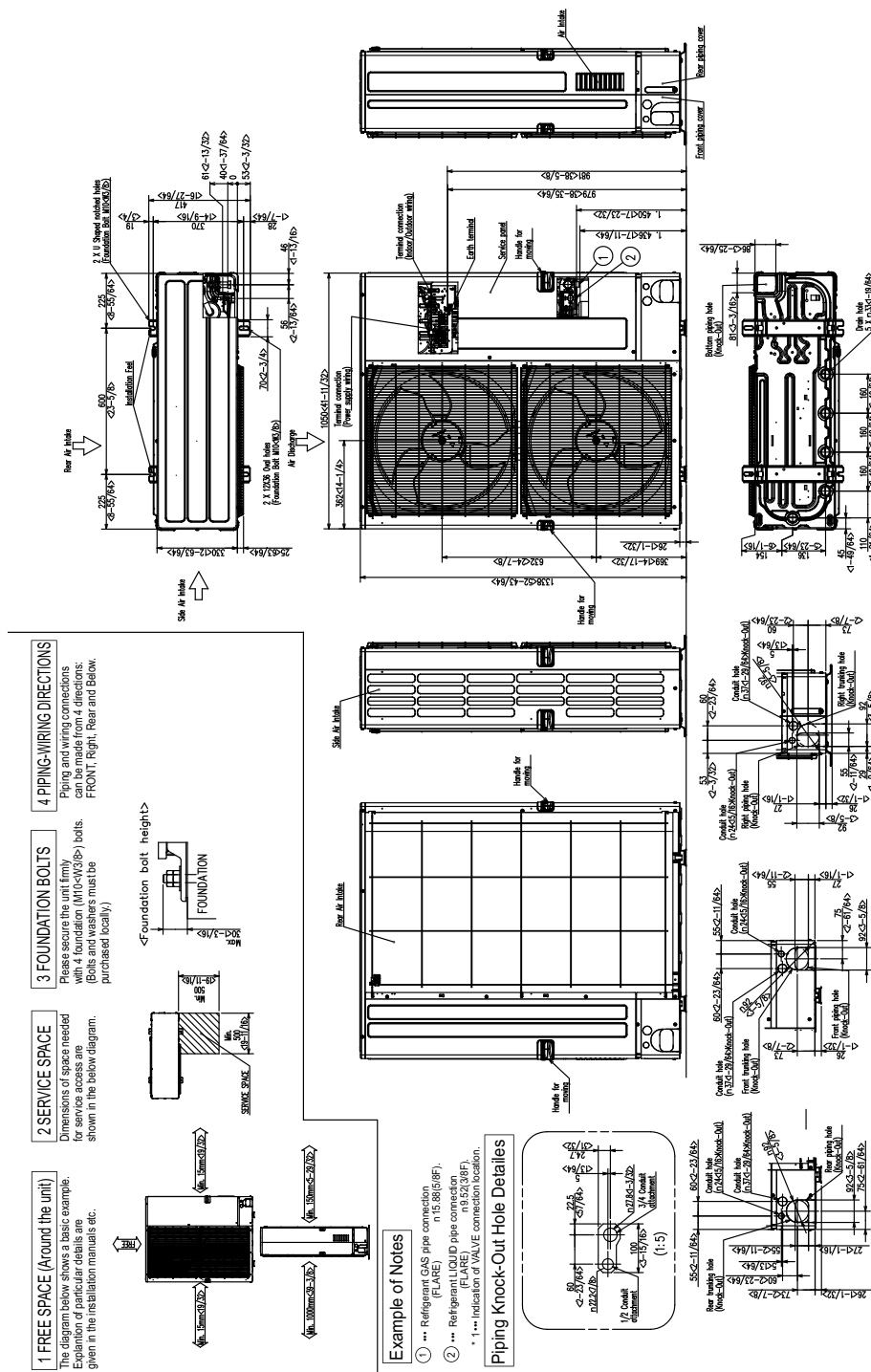
|                                         |                                                                                                          |                   |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------|
| Power Supplies & Auxiliary Components   | 3-Pin Wiring Harness                                                                                     | PAC-715AD         |
|                                         | 5-Pin Wiring Harness                                                                                     | PAC-725AD         |
|                                         | ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models                                             | PAC-740           |
| Wireless Remote Controller              | Lockdown Bracket for Wireless Handheld Remote Controllers                                                | RCMKP1CB          |
|                                         | RedLINK Wireless Remote Controller                                                                       | MHK2              |
|                                         | Universal Wireless MA Handheld Remote Controller                                                         | PAR-SL101A-E      |
|                                         | Universal Wireless Receiver for PAR-FL32MA-E                                                             | PAR-FA32MA-W      |
|                                         | Universal Wireless Receiver for PAR-FL32MA-E                                                             | PAR-FA32MA-E      |
| Wired Remote Controller                 | Deluxe MA Wired Remote Controller                                                                        | PAR-42MAAUB       |
|                                         | Simple Direct Wired Remote Controller                                                                    | PAC-SDW01RC-1     |
|                                         | Simple MA Remote Controller                                                                              | PAC-YT53CRAU-J    |
|                                         | Touch MA Wired Remote Controller                                                                         | PAR-CT01MAU-SB    |
| Disconnect Switch                       | 30A600VUL fits 2 X 4 utility box - Black                                                                 | TAZ-MS303         |
|                                         | 30A600VUL fits 2 X 4 utility box - White                                                                 | TAZ-MS303W        |
| 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 MegaBlue Advanced Condensate Pump w Reservoir Sensor                                        | SI30-230          |
|                                         | Blue Diamond Sensor Extension Cable 15 Ft                                                                | C13-103           |
|                                         | Refco Condensate Pump 100-240 VAC up to 120000 BTUH                                                      | COMBI             |
| Control Interface                       | 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 |
| 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 |
| Power Supplies and Auxiliary Components | Backup Heat Relay Kit Adapter for CN24 or CN152 Connector                                                | CN24RELAY-KIT-CM3 |
| Lineset                                 | 10 x 3/8 x 10 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-10    |
|                                         | 100 x 3/8 x 100 x 5/8 Lineset Twin-Tube Insulation                                                       | MPLS385812T-100   |
|                                         | 15 x 3/8 x 15 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-15    |
|                                         | 30 x 3/8 x 30 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-30    |
|                                         | 50 x 3/8 x 50 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-50    |
|                                         | 65 x 3/8 x 65 x 5/8 Lineset Twin-Tube Insulation                                                         | MPLS385812T-65    |
| NOTES                                   |                                                                                                          |                   |

## OUTDOOR UNIT ACCESSORIES: PUZ-AK42NL

|                                       |                                                     |                                        |
|---------------------------------------|-----------------------------------------------------|----------------------------------------|
| Air Outlet Guide                      | Air Outlet Guide 1 Piece                            | PAC-SH96SG-E (two pieces are required) |
| Wind Baffle                           | Front Wind Baffle                                   | WB-PA3 (two pieces are required)       |
|                                       | Rear Wind Baffle                                    | WB-RE6                                 |
|                                       | Side Advanced Wind Baffle                           | WB-SD6                                 |
| Mounting Pad                          | Condensing Unit Mounting Pad 24 x 42 x 3            | ULTRILITE2                             |
| Stand                                 | 18 Dual Fan Stand                                   | QSMS1802M                              |
|                                       | 24 Dual Fan Stand                                   | QSMS2402M                              |
|                                       | Condenser Wall Bracket                              | QSWB2000M-1                            |
|                                       | Condenser Wall Bracket - Stainless Steel Finish     | QSWBSS                                 |
|                                       | Outdoor Unit 3-14 inch Mounting Base Pair - Plastic | DSD-400P                               |
|                                       | Outdoor Unit Stand 12 High                          | QSMS1202M                              |
| Hail Guards                           | Hail Guard                                          | HG-A2                                  |
| Power Supplies & Auxiliary Components | 3-Pin Wiring Harness                                | PAC-715AD                              |
|                                       | 5-Pin Wiring Harness                                | PAC-725AD                              |
| Drain Socket                          | Drain Socket                                        | PAC-SG61DS-E                           |
| Centralized Drain Pan                 | Centralized Drain Pan                               | PAC-SH97DP-E                           |
| Control/Service Tool                  | ControlService Tool                                 | PAC-SK52ST                             |
|                                       | M- & P-Series Maintenance Tool Cable Set            | M21EC0397                              |
|                                       | Maintenance Tool Interface                          | PAC-USCMS-MN-1                         |
| Snow/Rain Diverter                    | SnowRain Diverter                                   | SRD-5                                  |
| M-NET Converter                       | M-Net Interface for P-Series                        | PAC-SJ95MA-E                           |
| 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                                |
| Optional Defrost Heater               | Optional Defrost Heater                             | PAC-SL11BH-E                           |
| NOTES                                 |                                                     |                                        |

**No Image  
Provided**

METUS 2025-08 PROPIN



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