# PVA-AA48NL & PUZ-AK48NLHZ
## 48,000 BTU/H MULTI-POSITION AIR HANDLER INDOOR UNIT
## 48,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT

| | | | |
|---|---|---|---|
| **Job Name:** | | | |
| **System Reference:** | | **Date:** | |





INDOOR Unit ... PVA-AA48NL

OUTDOOR Unit ... PUZ-AK48NLHZ

### 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

- H2i® Hyper-Heating: 100% heating performance down to 5° F with guaranteed heating down to -13° F.
- 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.
- Base Pan Heater: This advanced base pan heater helps to prevent interrupted operation due to water freezing after a defrost cycle, ensuring your warmth and comfort during colder weather.
- Seacoast Protection: Designed to protect against the corrosive effects of environments that are in close proximity to the sea.
- Flash Injection: Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.

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# SPECIFICATIONS: PVA-AA48NL & PUZ-AK48NLHZ

| | | | |
|---|---|---|---|
| Cooling at 95F[1] | Maximum Capacity | Btu/h | 48000 |
| | Rated Capacity | Btu/h | 48000 |
| | Minimum Capacity | Btu/h | 18000 |
| | Maximum Power Input | W | 4640 |
| | Rated Power Input | W | 4640 |
| | Moisture Removal | Pints/h | 11.90 |
| | Sensible Heat Factor | | 0.75 |
| | Power Factor [208V / 230V] | % | 93 / 93 |
| Heating at 47F[2] | Maximum Capacity | Btu/h | 60000 |
| | Rated Capacity | Btu/h | 60000 |
| | Minimum Capacity | Btu/h | 12800 |
| | Maximum Power Input | W | 5130 |
| | Rated Power Input | W | 5130 |
| | Power Factor [208V / 230V] | % | 94 / 94 |
| Heating at 17F[3] | Maximum Capacity | Btu/h | 52000 |
| | Rated Capacity | Btu/h | 30800 |
| | Maximum Power Input | W | 6130 |
| | Rated Power Input | W | 3690 |
| Heating at 5F[5] | Maximum Capacity | Btu/h | 52000 |
| | Maximum Power Input | W | 7940 |
| Heating at -4F[6] | Maximum Capacity | Btu/h | 49895 |
| Heating at -13F[9] | Maximum Capacity | Btu/h | 44000 |
| Efficiency | SEER2 | | 20.20 |
| | EER2[1] | | 10.40 |
| | HSPF2 [IV] | | 8.70 |
| | COP at 47°F[2] | | 3.40 |
| | COP at 17°F at Maximum Capacity[3] | | 2.40 |
| | COP at 5°F at Maximum Capacity[5] | | 1.90 |
| | COP at -4°F at Maximum Capacity[6] | | 1.61 |
| | COP at -13°F at Maximum Capacity[9] | | 1.41 |
| | ENERGY STAR® Certified | | No |
| Electrical | Voltage, Phase, Frequency | V AC / V AC , Hz | 208 / 230 , 1 , 60 |
| | Guaranteed Voltage Range | V AC | 198 - 253 |
| | Voltage: Indoor - Outdoor, S1-S2 | V AC | IDU Powered Separately |
| | Voltage: Indoor - Outdoor, S2-S3 | V DC | 12-24 |
| | Short-circuit Current Rating [SCCR] | kA | 5 |
| | Recommended Fuse/Breaker Size (Outdoor) | A | 40 |
| | Recommended Wire Size [Indoor - Outdoor] | AWG | 14 |
| Indoor Unit | MCA | A | 5.63 |
| | MOCP | A | 15 |
| | Fan Motor Output | W | 430 |
| | Fan Motor Type | | DC Motor |
| | Airflow Rate at Cooling, Dry | CFM | 1040 , 1262 , 1485 |
| | Airflow Rate at Heating, Dry | CFM | 1040 , 1262 , 1485 |
| | Sound Pressure Level [Cooling] | dB (A) | 45 , 48 , 52 |
| | Sound Pressure Level [Heating] | dB (A) | 45 , 48 , 52 |
| | External Static Pressure | in.WG | 0.30 , 0.50 , 0.80 |
| | Drain Pipe Size O.D. | inch [ mm ] | 3/4 [ 19.05 ] |
| | Unit Dimensions (W x D x H) | inch x inch x inch [ mm x mm x mm ] | 25 x 21-5/8 x 59-1/2 [ 635 x 548 x 1511 ] |
| | Package Dimensions (W x D x H) | inch x inch x inch [ mm x mm x mm ] | 26 x 28-3/4 x 66 [ 660 x 730 x 1675 ] |
| | Unit Weight | lbs [ kg ] | 172 [ 78 ] |
| | Package Weight | lbs [ kg ] | 198 [ 90 ] |
| IDU Operating Temp. Range | Cooling Intake Air Temp [Maximum / Minimum] | deg F , deg F / deg F , deg F | 90 , 73 / 66 , 59 |
| | Heating Intake Air Temp [Maximum / Minimum] | deg F | 82 / 50 |
| Outdoor Unit | MCA | A | 35 |

**Notes**

[1]Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[2]Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
[3]Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
[5]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
[9]Heating at -13°F (Indoor // Outdoor) °F 70 DB, 60 WB // -13 DB, -14 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.

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# SPECIFICATIONS: PVA-AA48NL & PUZ-AK48NLHZ

| | | | |
|---|---|---|---|
| Outdoor Unit | MOCP | A | 60 |
| | Fan Motor Output | W | 213+213 |
| | Airflow Rate Cooling | CFM | 4020 |
| | Airflow Rate Heating | CFM | 4020 |
| | Defrost Method | | Reverse Cycle |
| | Coating on Heat Exchanger (Bluefin, Sea Coast) | | Yes , Yes |
| | Sound Pressure Level, Cooling[1] | dB (A) | 60 |
| | Sound Pressure Level, Heating[2] | dB (A) | 62 |
| | Compressor Type | | Twin Rotary |
| | Compressor Model | | MRK53FFJMC-L |
| | Compressor Oil [Type // Charge] | // oz | RM68EH // 60 |
| | External Finish Color | | Munsell 3Y 7.8/1.1 |
| | Base Pan Heater | | Built-in |
| | Unit Dimensions (W x D x H) | inch x inch x inch [ mm x mm x mm ] | 41-11/32 x 14 x 52-43/64 [ 1050 x 355 x 1338 ] |
| | Package Dimensions (W x D x H) | inch x inch x inch [ mm x mm x mm ] | 42-15/16 x 17-3/4 x 58-5/16 [ 1090 x 450 x 1480 ] |
| | Unit Weight | lbs [ kg ] | 271 [ 123 ] |
| | Package Weight | lbs [ kg ] | 298 [ 135 ] |
| ODU Operating Temp. Range | Cooling Intake Air Temp [Maximum / Minimum*] | F | 115 / 23 |
| | Heating Intake Air Temp [Maximum / Minimum] | F , F / F , F | 70 , 59 / -13 , -13 |
| | Heating Thermal Lock-out / Re-start Temperatures** | F | -22 / -13 |
| Refrigerant | Type | | R454B |
| | Pre-Charged Refrigerant Amount | lbs , oz | 11 , 7 |
| | Maximum Pre-Charged Piping Length | ft [ m ] | 100 [ 30 ] |
| | Additional Refrigerant Charge Per Additional Piping Length | oz/ft | 0.60 |
| 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 ] | 245 [ 75 ] |
| | Maximum Height Difference | ft [ m ] | 100 [ 30 ] |
| | Maximum Number of Bends | | 15 |

**Notes**

[1]Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[2]Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB
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**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.

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# INDOOR UNIT ACCESSORIES: PVA-AA48NL

| | | |
|---|---|---|
| Condensate | Refco Condensate Pump 100-240V up to 120k BTU/h | ☐ COMBI |
| | Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended | ☐ X88-721 |
| | Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended] | ☐ X87-711 |
| | Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h | ☐ X87-835 |
| | Blue Diamond Sensor Extension Cable 15 Ft | ☐ C13-103 |
| | Sauermann Condensate Pump 120-230V up to 60k BTU/h | ☐ SI30-230 |
| Control Interface | kumo station® for Comfort app | ☐ PAC-WHS01HC-E |
| | Operation and Error Status Output Adapter | ☐ PAC-SF40RM-E |
| | Thermostat Interface for 3rd Party Thermostats | ☐ PAC-US445CN-1 |
| | Procon BACnet® and Modbus® Interface | ☐ PAC-UKPRC001-CN-1 |
| | Airzone Wireless Lite Controller White | ☐ AZZBSLITERB |
| | Wireless Interface 2 for Comfrot app | ☐ PAC-USWHS002-WF-2 |
| | Airzone Wireless Think Controller White | ☐ AZZBSTHINKRB |
| | Airzone Wireless Think Controller Black | ☐ AZZBSTHINKRN |
| | Airzone Wired Lite Controller White | ☐ AZZBSLITECB |
| | IT Extender | ☐ PAC-WHS01IE-E |
| | Airzone Wired Blueface Controller White | ☐ AZZBSBLUEZEROCB |
| | Airzone Wired Blueface Controller Black | ☐ AZZBSBLUEZEROCN |
| Control Wire | 202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel | ☐ CW2042S2-100 |
| | 202PR shielded 1PR plenum wire for Airzone 500 ft reel | ☐ CW2042S2-500 |
| Disconnect Switch | (30A/600V/UL) [fits 2” X 4” utility box] - White | ☐ TAZ-MS303W |
| | 30A600VUL fits 2 X 4 utility box - Black | ☐ TAZ-MS303 |
| Downflow Kit | Condensate Management Kit for downflow installation | ☐ CMA-1 |
| Electric Heat Lockout | Electric Heat Lockout | ☐ ETC-211020-MIT |
| Electric Kit Heats | 15kW Electric Heater Module - Large Cabinet | ☐ EH15-MPAS-LB |
| | 17.5kW Electric Heater Module - Large Cabinet | ☐ EH17-MPAS-LB |
| | 10kW Electric Heater Module - Large Cabinet | ☐ EH10-MPA-LB |
| Lineset | 3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet | ☐ MPLS385812T-100 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet | ☐ MPLS385812T-65 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet | ☐ MPLS385812T-50 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet | ☐ MPLS385812T-30 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet | ☐ MPLS385812T-10 |
| | 3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet | ☐ MPLS385812T-15 |
| Power Supplies & Auxiliary Components | ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models | ☐ PAC-740 |
| Remote Sensor | Wireless temperature and humidity sensor for Comfort app | ☐ PAC-USWHS003-TH-1 |
| | Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models | ☐ PAC-USSEN002-FM-1 |
| | Wall Mounted Remote Temperature Sensor | ☐ PAC-SE41TS-E |
| Terminal Block | Separate Terminal Power Block | ☐ SPTB1 |
| Terminal Signal Adapter | 5-Pin Wiring Harness | ☐ PAC-725AD |
| | 3-Pin Wiring Harness | ☐ PAC-715AD |
| | Backup Heat Relay Kit | ☐ CN24RELAY-KIT-CM3 |
| Wired Remote Controller | Deluxe MA Wired Remote Controller | ☐ PAR-42MAAUB |
| | Touch MA Remote Controller | ☐ PAR-CT01MAU-SB |
| | Simple Direct Wired Remote Controller | ☐ PAC-SDW01RC-1 |
| | Simple MA Remote Controller | ☐ PAC-YT53CRAU-J |
| Wireless Remote Controller | Wireless RedLINK™ Remote Controller | ☐ MHK2 |
| | Wireless Remote Contoller | ☐ PAR-SL101A-E |
| | Lockdown Bracket for Wireless Handheld Remote Controllers | ☐ RCMKP1CB |
| | Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E) | ☐ PAR-FL32MA-E |
| | Universal Wireless Receiver for PAR-FL32MA-E | ☐ PAR-FA32MA-W |
| **Notes** | | |

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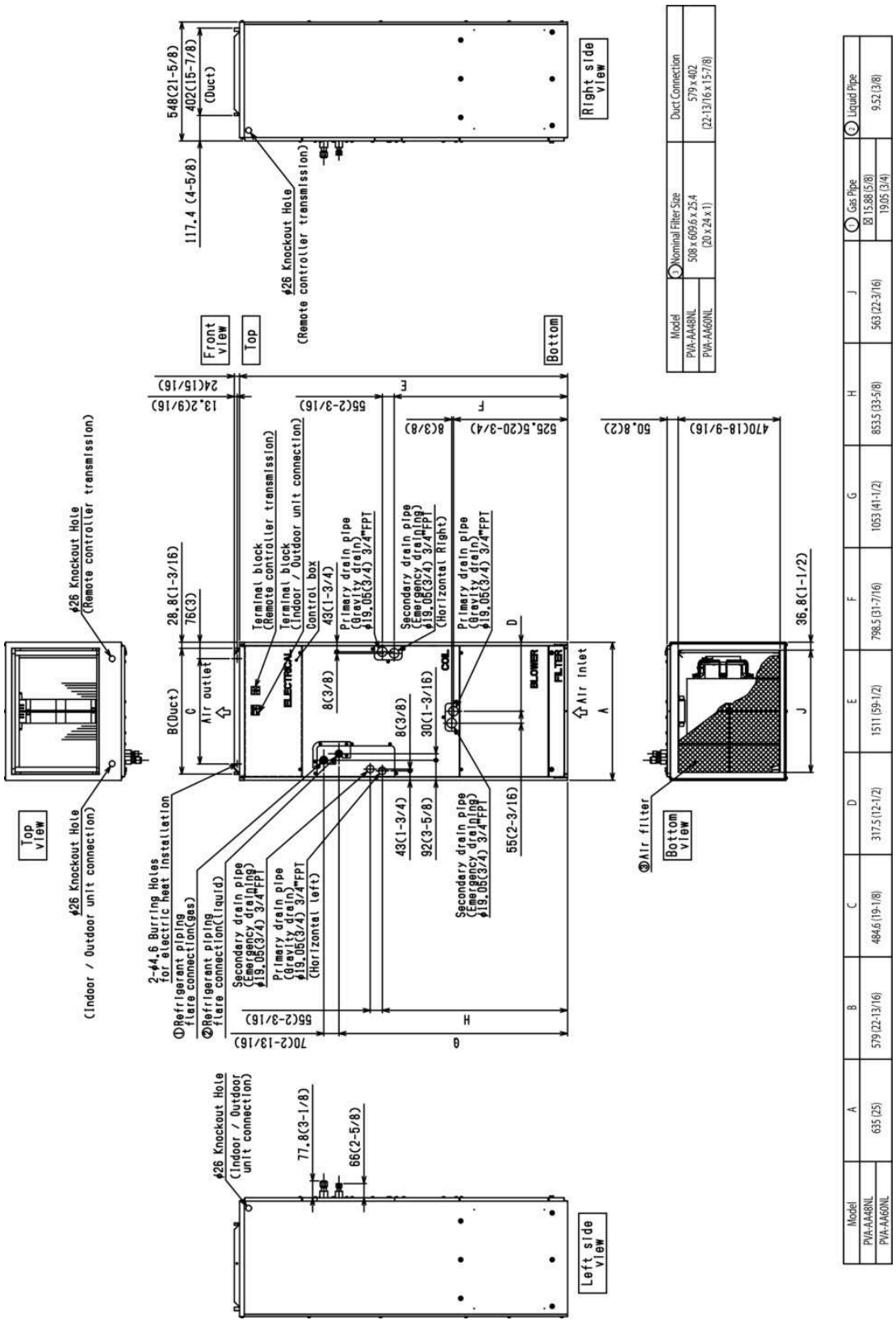
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# OUTDOOR UNIT ACCESSORIES: PUZ-AK48NLHZ

| | | |
|---|---|---|
| Air Outlet Guide | Air Outlet Guide 1 Piece | ☐ PAC-SH96SG-E (two pieces required) |
| Centralized Drain Pan | Centralized Drain Pan | ☐ PAC-SH97DP-E |
| Control/Service Tool | M- & P-Series Maintenance Tool Cable Set | ☐ M21EC0397 |
| | ControlService Tool | ☐ PAC-SK52ST |
| | Maintenance Tool Interface | ☐ PAC-USCMS-MN-1 |
| Drain Socket | Drain Socket | ☐ PAC-SG61DS-E |
| Hail Guards | Hail Guard | ☐ HG-A2 |
| 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 MiniSplit Cable50 ft roll | ☐ S144-50 |
| | 14 Gauge 4 wire Armored MiniSplit Cable50 ft roll | ☐ SW144-50 |
| | 14 Gauge 4 wire MiniSplit Cable250 ft roll | ☐ S144-250 |
| Mounting Pad | Condensing Unit Mounting Pad 24 x 42 x 3 | ☐ ULTRILITE2 |
| Snow/Rain Diverter | SnowRain Diverter | ☐ SRD-5 |
| Stand | 18 Dual Fan Stand | ☐ QSMS1802M |
| | Outdoor Unit Stand 12 High | ☐ QSMS1202M |
| | 24 Dual Fan Stand | ☐ QSMS2402M |
| | Outdoor Unit 3-14 inch Mounting Base Pair - Plastic | ☐ DSD-400P |
| Terminal Signal Adapter | 5-Pin Wiring Harness | ☐ PAC-725AD |
| | 3-Pin Wiring Harness | ☐ PAC-715AD |
| Wind Baffle | Front Wind Baffle | ☐ WB-PA3 (two pieces required) |
| **Notes** | | |


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# INDOOR UNIT DIMENSIONS: PVA-AA48NL



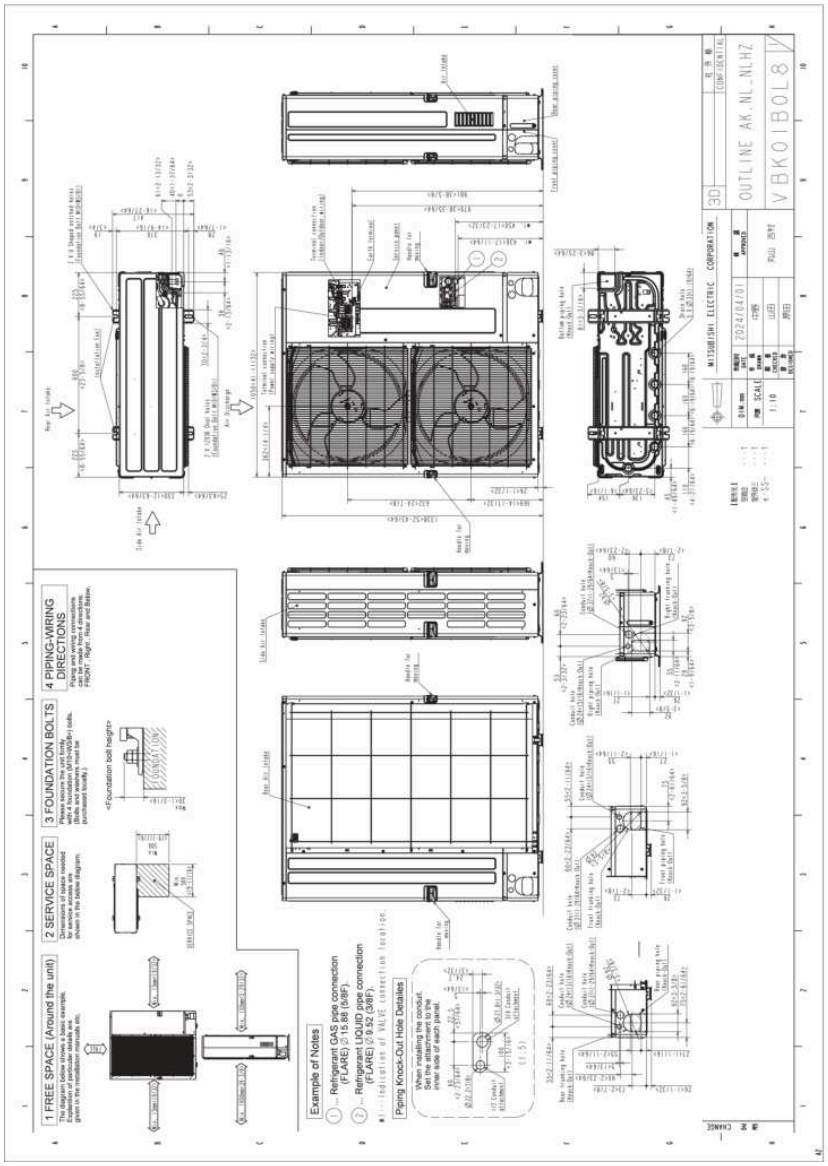

| Model | ③Nominal Filter Size | Duct Connection |
|---|---|---|
| PVA-AA48NL | 508 x 609.6 x 25.4 (20 x 24 x 1) | 579 x 402 (22-13/16 x 15-7/8) |
| PVA-AA60NL | | |

| Model | A | B | C | D | E | F | G | H | J | ① Gas Pipe | ② Liquid Pipe |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PVA-AA48NL | 635 (25) | 579 (22-13/16) | 484.6 (19-1/8) | 317.5 (12-1/2) | 1511 (59-1/2) | 798.5 (31-7/16) | 1053 (41-1/2) | 853.5 (33-5/8) | 563 (22-3/16) | Ø 15.88 (5/8) | 9.52 (3/8) |
| PVA-AA60NL | | | | | | | | | | 19.05 (3/4) | |

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# OUTDOOR UNIT DIMENSIONS: PUZ-AK48NLHZ




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