

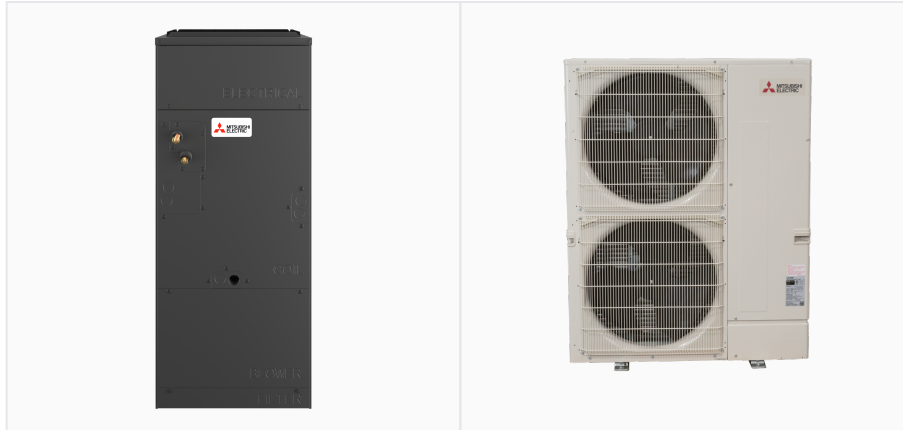
PVA-AA48NL & PUZ-AK48NL  
48,000 BTU/H MULTI-POSITION AIR HANDLER INDOOR UNIT  
48,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PVA-AA48NL  
OUTDOOR Unit ... PUZ-AK48NL

#### 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-AA48NL & PUZ-AK48NL**

Cooling at 95F <sup>1</sup>	Maximum Capacity	Btu/h	48000
	Rated Capacity	Btu/h	48000
	Minimum Capacity	Btu/h	18100
	Maximum Power Input	W	4450
	Rated Power Input	W	4450
	Moisture Removal	Pints/h	10.50
	Sensible Heat Factor		0.77
Heating at 47F <sup>2</sup>	Maximum Capacity	Btu/h	60000
	Rated Capacity	Btu/h	60000
	Minimum Capacity	Btu/h	14700
	Maximum Power Input	W	5620
	Rated Power Input	W	5620
	Power Factor [208V / 230V]	%	94 / 94
	Heating at 17F <sup>3</sup>	Maximum Capacity	Btu/h
Rated Capacity		Btu/h	38000
Maximum Power Input		W	4710
Rated Power Input		W	4710
Heating at 5F <sup>5</sup>	Maximum Capacity	Btu/h	30800
Heating at -4F <sup>6</sup>	Maximum Capacity	Btu/h	4250
Efficiency	SEER2		18.10
	EER2 <sup>1</sup>		10.60
	HSPF2 [IV]		8.40
	COP at 47°F <sup>2</sup>		3.10
	COP at 17°F at Maximum Capacity <sup>3</sup>		2.40
	COP at 5°F at Maximum Capacity <sup>5</sup>		2.10
	COP at -4°F at Maximum Capacity <sup>6</sup>		2
ENERGY STAR® Certified		No	
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	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
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	MCA	A	5.63
	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	38
	MOCP	A	67
	Fan Motor Output	W	213+213
	Airflow Rate Cooling	CFM	4020

**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-AA48NL & PUZ-AK48NL**

Outdoor Unit	Airflow Rate Heating	CFM	4020
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling <sup>1</sup>	dB (A)	60
	Sound Pressure Level, Heating <sup>2</sup>	dB (A)	62
	Compressor Type		Twin Rotary
	Compressor Model		MRB53FEJMC-L
	Compressor Oil [Type // Charge]	// oz	RM68EH // 60
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	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 ]	265 [ 120 ]
	Package Weight	lbs [ kg ]	291 [ 132 ]
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 / -4 , -4
	Heating Thermal Lock-out / Re-start Temperatures**	F	-13 / -4
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
<b>Notes</b>			
<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			

## INDOOR UNIT ACCESSORIES: PVA-AA48NL

Condensate	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 Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	<input type="checkbox"/> X88-721
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	<input type="checkbox"/> X87-835
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	<input type="checkbox"/> SI30-230
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	<input type="checkbox"/> X87-711
Control Interface	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 Lite Controller White	<input type="checkbox"/> AZZBSLITECB
	Airzone Wireless Think Controller Black	<input type="checkbox"/> AZZBSTHINKRN
	Airzone Wired Blueface Controller White	<input type="checkbox"/> AZZBSBLUEZEROCB
	Airzone Wireless Think Controller White	<input type="checkbox"/> AZZBSTHINKRB
	Airzone Wired Blueface Controller Black	<input type="checkbox"/> AZZBSBLUEZEROCN
	Airzone Wireless Lite Controller White	<input type="checkbox"/> AZZBSLITERB
	Wireless Interface 2 for Comfrot app	<input type="checkbox"/> PAC-USWHS002-WF-2
	Procon BACnet® and Modbus® Interface	<input type="checkbox"/> PAC-UKPRC001-CN-1
	IT Extender	<input type="checkbox"/> PAC-WHS01IE-E
	kumo station® for Comfort app	<input type="checkbox"/> PAC-WHS01HC-E
Control Wire	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	<input type="checkbox"/> CW2042S2-100
	202PR shielded 1PR plenum wire for Airzone 500 ft reel	<input type="checkbox"/> CW2042S2-500
Disconnect Switch	30A600VUL 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
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	10kW Electric Heater Module - Large Cabinet	<input type="checkbox"/> EH10-MPA-LB
	17.5kW Electric Heater Module - Large Cabinet	<input type="checkbox"/> EH17-MPAS-LB
	15kW Electric Heater Module - Large Cabinet	<input type="checkbox"/> EH15-MPAS-LB
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	<input type="checkbox"/> MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	<input type="checkbox"/> MPLS385812T-100
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	<input type="checkbox"/> MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	<input type="checkbox"/> MPLS385812T-30
	3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet	<input type="checkbox"/> MPLS385812T-50
	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	<input type="checkbox"/> MPLS385812T-10
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	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
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	<input type="checkbox"/> PAC-USSEN002-FM-1
Terminal Block	Separate Terminal Power Block	<input type="checkbox"/> SPTB1
Terminal Signal Adapter	5-Pin Wiring Harness	<input type="checkbox"/> PAC-725AD
	3-Pin Wiring Harness	<input type="checkbox"/> PAC-715AD
	Backup Heat Relay Kit	<input type="checkbox"/> CN24RELAY-KIT-CM3
Wired Remote Controller	Simple Direct Wired Remote Controller	<input type="checkbox"/> PAC-SDW01RC-1
	Simple MA Remote Controller	<input type="checkbox"/> PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller	<input type="checkbox"/> PAR-42MAAUB
	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
<b>Notes</b>		

## INDOOR UNIT ACCESSORIES: PVA-AA48NL

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

## OUTDOOR UNIT ACCESSORIES: PUZ-AK48NL

Air Outlet Guide	Air Outlet Guide 1 Piece	<input type="checkbox"/>	PAC-SH96SG-E (two pieces required)
Centralized Drain Pan	Centralized Drain Pan	<input type="checkbox"/>	PAC-SH97DP-E
Control/Service Tool	ControlService Tool	<input type="checkbox"/>	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	<input type="checkbox"/>	M21EC0397
	Maintenance Tool Interface	<input type="checkbox"/>	PAC-USCMS-MN-1
Drain Socket	Drain Socket	<input type="checkbox"/>	PAC-SG61DS-E
Hail Guards	Hail Guard	<input type="checkbox"/>	HG-A2
M-NET Converter	M-Net Interface for P-Series	<input type="checkbox"/>	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	<input type="checkbox"/>	SW144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	<input type="checkbox"/>	SW144-250
	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 24 x 42 x 3	<input type="checkbox"/>	ULTRILITE2
Optional Defrost Heater	Optional Defrost Heater	<input type="checkbox"/>	PAC-SL11BH-E
Snow/Rain Diverter	SnowRain Diverter	<input type="checkbox"/>	SRD-5
Stand	24 Dual Fan Stand	<input type="checkbox"/>	QSMS2402M
	18 Dual Fan Stand	<input type="checkbox"/>	QSMS1802M
	Outdoor Unit Stand 12 High	<input type="checkbox"/>	QSMS1202M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	<input type="checkbox"/>	DSD-400P
Terminal Signal Adapter	5-Pin Wiring Harness	<input type="checkbox"/>	PAC-725AD
	3-Pin Wiring Harness	<input type="checkbox"/>	PAC-715AD
Wind Baffle	Front Wind Baffle	<input type="checkbox"/>	WB-PA3 (two pieces required)
	Side Advanced Wind Baffle	<input type="checkbox"/>	WB-SD6
	Rear Wind Baffle	<input type="checkbox"/>	WB-RE6
<b>Notes</b>			



