

PVA-AA60NL & PUZ-AK60NL
56,000 BTU/H MULTI-POSITION AIR HANDLER INDOOR UNIT
60,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PVA-AA60NL
OUTDOOR Unit ... PUZ-AK60NL

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.
- Low Ambient Cooling: Low ambient cooling down to 0°F providing 100% capacity with front wind baffle kit

SPECIFICATIONS: PVA-AA60NL & PUZ-AK60NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	60000
	Rated Capacity	Btu/h	60000
	Minimum Capacity	Btu/h	18500
	Maximum Power Input	W	6070
	Rated Power Input	W	6070
	Moisture Removal	Pints/h	14.30
	Sensible Heat Factor		0.74
	Power Factor [208V / 230V]	%	99 / 99
Heating at 47F ²	Maximum Capacity	Btu/h	66500
	Rated Capacity	Btu/h	64500
	Minimum Capacity	Btu/h	14600
	Maximum Power Input	W	6590
	Rated Power Input	W	6390
	Power Factor [208V / 230V]	%	97 / 97
Heating at 17F ³	Maximum Capacity	Btu/h	42500
	Rated Capacity	Btu/h	42500
	Maximum Power Input	W	5350
	Rated Power Input	W	5350
Heating at 5F ⁵	Maximum Capacity	Btu/h	34600
	Maximum Power Input	W	5000
Heating at -4F ⁶	Maximum Capacity	Btu/h	31000
Efficiency	SEER2		18.30
	EER2 ¹		9.80
	HSPF2 [IV]		8.40
	COP at 47°F ²		2.9
	COP at 17°F at Maximum Capacity ³		2.30
	COP at 5°F at Maximum Capacity ⁵		2
	COP at -4°F at Maximum Capacity ⁶		1.90
	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	9.3
	MOCP	A	15
	Fan Motor Output	W	750
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	1155 , 1400 , 1650
	Airflow Rate at Heating, Dry	CFM	1225 , 1485 , 1750
	Sound Pressure Level [Cooling]	dB (A)	48 , 55 , 56
	Sound Pressure Level [Heating]	dB (A)	48 , 55 , 56
	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]	176 [80]
	Package Weight	lbs [kg]	200 [91]
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

Notes

¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB

²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB

⁵Heating 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.

⁶Heating at -4°F (Indoor // Outdoor) °F 70 DB, 60 WB // -4 DB, -5 WB

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Outdoor Unit	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		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]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	265 [120]
	Package Weight	lbs [kg]	291 [132]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	70 , 59 / -4 , -4
Refrigerant	Heating Thermal Lock-out / Re-start Temperatures**	F	-13 / -4
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	11 , 7
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
Piping	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.60
	Gas Pipe Size O.D. [Flared]	inch [mm]	3/4 [19.05]
	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

¹Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB

²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB

⁵Heating 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.

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INDOOR UNIT ACCESSORIES: PVA-AA60NL

Condensate	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208/230V recommended	☐ X88-721
Control Interface	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Airzone Wired Lite Controller White	☐ AZZBSLITECB
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
Control Wire	202PR shielded 1PR plenum wire for Airzone 500 ft reel	☐ CW2042S2-500
	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	☐ CW2042S2-100
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐ TAZ-MS303W
	30A/600VUL 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
	19kW Electric Heater Module - Large Cabinet	☐ EH19-MPAS-LB
	10kW Electric Heater Module - Large Cabinet	☐ EH10-MPA-LB
	17.5kW Electric Heater Module - Large Cabinet	☐ EH17-MPAS-LB
Lineset	50 x 3/8 x 50 x 3/4 Lineset Twin-Tube Insulation	☐ MPLS383412T-50
	15 x 3/8 x 15 x 3/4 Lineset Twin-Tube Insulation	☐ MPLS383412T-15
Power Supplies & Auxiliary Components	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	☐ PAC-740
Remote Sensor	Wall Mounted Remote Temperature Sensor	☐ PAC-SE41TS-E
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐ PAC-USSEN002-FM-1
	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
Terminal Block	Separate Terminal Power Block	☐ SPTB1
Terminal Signal Adapter	3-Pin Wiring Harness	☐ PAC-715AD
	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
	5-Pin Wiring Harness	☐ PAC-725AD
Wired Remote Controller	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Deluxe MA Wired Remote Controller	☐ PAR-42MAAUB
Wireless Remote Controller	Wireless RedLINK™ Remote Controller	☐ MHK2
	Wireless Remote Controller	☐ 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		

OUTDOOR UNIT ACCESSORIES: PUZ-AK60NL

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
	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	ControlService Tool	☐	PAC-SK52ST
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 MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	☐	ULTRILITE2
Optional Defrost Heater	Optional Defrost Heater	☐	PAC-SL11BH-E
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	3-Pin Wiring Harness	☐	PAC-715AD
	5-Pin Wiring Harness	☐	PAC-725AD
Wind Baffle	Front Wind Baffle	☐	WB-PA3 (two pieces required)
	Side Advanced Wind Baffle	☐	WB-SD6
	Rear Wind Baffle	☐	WB-RE6
Notes			

INDOOR UNIT DIMENSIONS: PVA-AA60NL



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