

PVA-AA30NL & PUZ-AH30NL
30,000 BTU/H MULTI-POSITION AIR HANDLER INDOOR UNIT
31,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PVA-AA30NL
OUTDOOR Unit ... PUZ-AH30NL

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-AA30NL & PUZ-AH30NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	30600
	Rated Capacity	Btu/h	30000
	Minimum Capacity	Btu/h	10200
	Maximum Power Input	W	3100
	Rated Power Input	W	3030
	Moisture Removal	Pints/h	10.50
	Sensible Heat Factor		0.62
	Power Factor [208V / 230V]	%	93 / 93
Heating at 47F ²	Maximum Capacity	Btu/h	34400
	Rated Capacity	Btu/h	33400
	Minimum Capacity	Btu/h	8400
	Maximum Power Input	W	2800
	Rated Power Input	W	2800
	Power Factor [208V / 230V]	%	93 / 93
Heating at 17F ³	Maximum Capacity	Btu/h	18200
	Rated Capacity	Btu/h	18200
	Maximum Power Input	W	2150
	Rated Power Input	W	2150
Heating at 5F ⁵	Maximum Capacity	Btu/h	12800
	Maximum Power Input	W	2084
Heating at -4F ⁶	Maximum Capacity	Btu/h	11500
Efficiency	SEER2		18
	EER2 ¹		9.90
	HSPF2 [IV]		8.50
	COP at 47°F ²		3.50
	COP at 17°F at Maximum Capacity ³		2.40
	COP at 5°F at Maximum Capacity ⁵		1.80
	COP at -4°F at Maximum Capacity ⁶		1.76
	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	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	4.13
	Fan Motor Output	W	244
	Fan Motor Type		Direct-driven DC Brushless Motor
	Airflow Rate at Cooling, Dry	CFM	613 , 744 , 875
	Airflow Rate at Heating, Dry	CFM	613 , 744 , 875
	Sound Pressure Level [Cooling]	dB (A)	34 , 40 , 44
	Sound Pressure Level [Heating]	dB (A)	34 , 40 , 44
	External Static Pressure	in.WG	0.30 , 0.50 , 0.80
	Drain Pipe Size O.D.	inch [mm]	3/4 [19.05]
	External Finish Color		Galvanized steel cabinet-Powder coated Slate Gray
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	21 x 21-5/8 x 54-1/4 [534 x 548 x 1378]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	22 x 28-11/16 x 61 [558 x 728 x 1549]
	Unit Weight	lbs [kg]	141 [64]
	Package Weight	lbs [kg]	163 [74]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	deg F , deg F / deg F , deg F	90 , 72 / 66 , 61
	Heating Intake Air Temp [Maximum / Minimum]	deg F	77 / 59
Outdoor Unit	MCA	A	22
	MOCP	A	37
	Fan Motor Output	W	74

Notes

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

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

SPECIFICATIONS: PVA-AA30NL & PUZ-AH30NL

Outdoor Unit	Airflow Rate Cooling	CFM	1940
	Airflow Rate Heating	CFM	1940
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	49
	Sound Pressure Level, Heating ²	dB (A)	52
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMC-L1
	Compressor Oil [Type // Charge]	// oz	RM68EH // 23
	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]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-15/16 x 17-3/4 x 42-1/2 [1065 x 450 x 1079]
	Unit Weight	lbs [kg]	155 [70]
	Package Weight	lbs [kg]	178.57 [81]
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	7 , 11
	Maximum Pre-Charged Piping Length	ft [m]	165 [50]
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

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

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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

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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.

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

INDOOR UNIT ACCESSORIES: PVA-AA30NL

Condensate	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
Control Interface	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wired Lite Controller White	☐ AZZBSLITECB
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
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	5kW Electric Heater Module - Medium Cabinet	☐ EH05-MPA-MB
	8kW Electric Heater Module - Medium Cabinet	☐ EH08-MPA-MB
	3kW Electric Heater Module - Medium Cabinet	☐ EH03-MPA-MB
	10kW Electric Heater Module - Medium Cabinet	☐ EH10-MPA-MB
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	☐ MPLS385812T-10
	3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet	☐ MPLS385812T-50
	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	☐ MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	☐ MPLS385812T-100
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	☐ MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	☐ MPLS385812T-30
N/A		☐ Unknown
Power Supplies & Auxiliary Components	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	☐ PAC-740
Remote Sensor	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
	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
	Deluxe MA Wired Remote Controller	☐ PAR-42MAAUB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐ PAR-FL32MA-E
Notes		

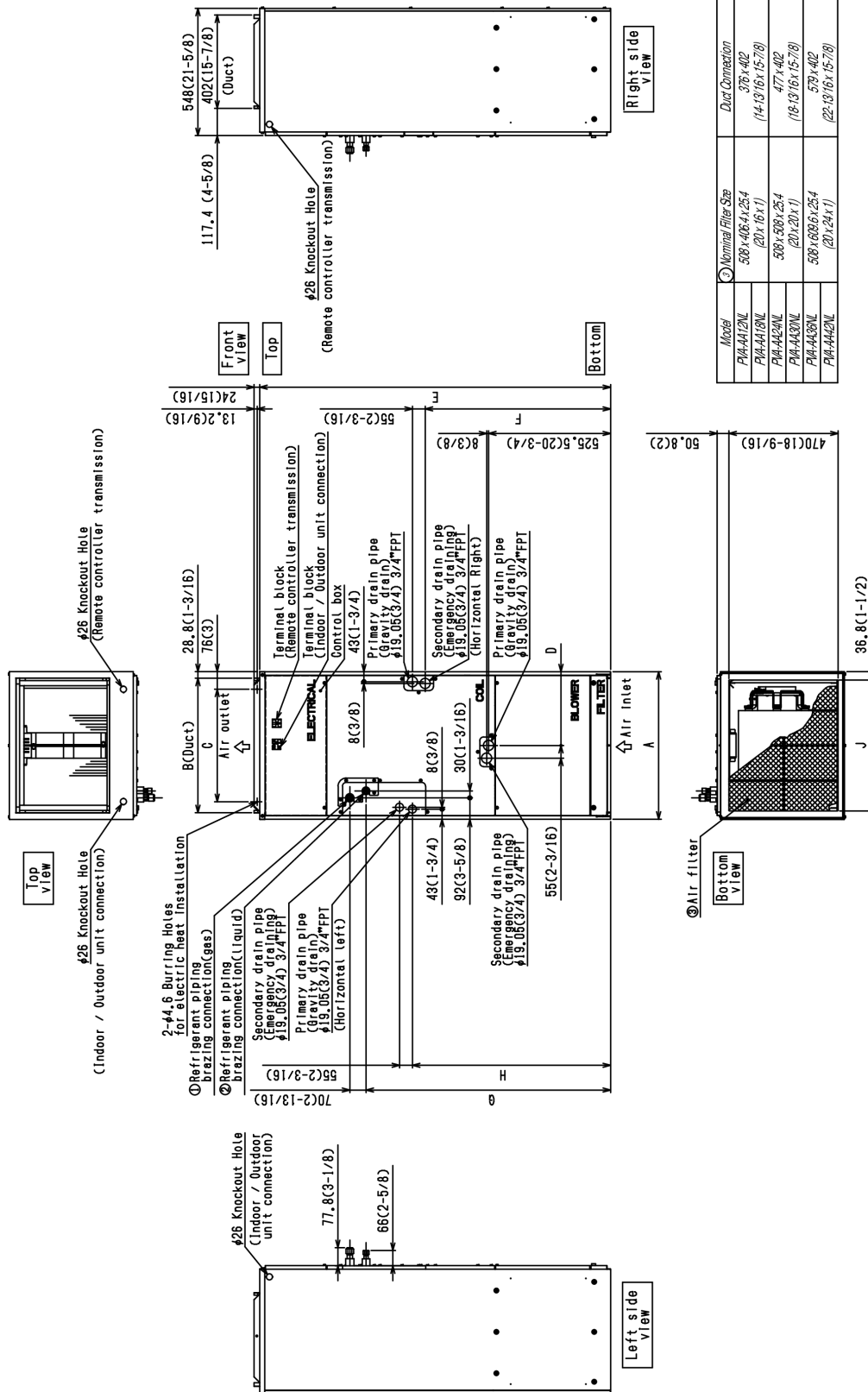
INDOOR UNIT ACCESSORIES: PVA-AA30NL

Wireless Remote Controller	Wireless RedLINK™ Remote Controller	☐ MHK2
	Wireless Remote Controller	☐ PAR-SL101A-E
Notes		

OUTDOOR UNIT ACCESSORIES: PUZ-AH30NL

Air Outlet Guide	Air Outlet Guide 1 Piece	☐	PAC-SG59SG-E
Centralized Drain Pan	Centralized Drain Pan	☐	PAC-SG64DP-E
	Centralized Drain Pan	☐	PAC-SH97DP-E
Control/Service Tool	ControlService Tool	☐	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	PAC-SG61DS-E
Hail Guards	Hail Guard	☐	HG-A6
M-NET Converter	M-Net Interface for P-Series	☐	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	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 Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	☐	ULTRILITE2
Optional Defrost Heater	Optional Defrost Heater	☐	PAC-SK62BH-E
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-4
Stand	Condenser Wall Bracket	☐	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	24 Single Fan Stand	☐	QSMS2401M
	18 Single Fan Stand	☐	QSMS1801M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	Outdoor Unit Stand 12 High	☐	QSMS1201M
Terminal Signal Adapter	3-Pin Wiring Harness	☐	PAC-715AD
	5-Pin Wiring Harness	☐	PAC-725AD
Wind Baffle	Front Wind Baffle	☐	WB-PA5
	Rear Wind Baffle	☐	WB-RE5
	Side Advanced Wind Baffle	☐	WB-SD5
Notes			

INDOOR UNIT DIMENSIONS: PVA-AA30NL



Model	Nominal Filter Size	Duct Connection
PA-A412N	508 x 408 x 41.254 (20 x 16 x 1)	378 x 402 (14-13/16 x 15-7/8)
PA-A419N		
PA-A424N	508 x 508 x 25.4 (20 x 20 x 1)	477 x 402 (18-13/16 x 15-7/8)
PA-A430N		
PA-A436N	508 x 608.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)
PA-A442N		

Model	A	B	C	D	E	F	G	H	J	Gas Pipe	Liquid Pipe
PA4-4412NL	432 (17)	376 (14-13-16)	281 (11-18)	224 (8-7-8)	1275 (53-1-4)	680 (26-13-16)	823 (32-7-16)	735.2 (29)	380 (14-3-16)	12.7 (1/2)	6.35 (1/4)
PA4-4416NL											
PA4-4424NL	534 (21)	477 (18-13-16)	382.6 (15-18)	265.5 (10-12)	1378 (54-1-4)	737 (29-1-16)	953.5 (37-9-16)	782 (31-3-16)	461 (18-3-16)		9.52 (3/8)
PA4-4430NL											
PA4-4436NL											
PA4-4442NL	635 (25)	579 (22-13-16)	484.6 (19-18)	372.5 (12-1-2)	1511 (59-1-2)	788.5 (31-7-16)	1033 (41-1-2)	853.5 (33-5-8)	563 (22-3-16)	15.89 (5/8)	

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