PVA-AA12NL & PUZ-AK12NL
12,000 BTU/H MULTI-POSITION AIR HANDLER INDOOR UNIT
12,000 BTU/H HEAT PUMP OUTDOOR UNIT

Job Name:			
System Reference:		**Date:**	





INDOOR Unit ... PVA-AA12NL

OUTDOOR Unit ... PUZ-AK12NL

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.

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SPECIFICATIONS: PVA-AA12NL & PUZ-AK12NL

Cooling at 95F[1]	Maximum Capacity	Btu/h	12400
	Rated Capacity	Btu/h	12000
	Minimum Capacity	Btu/h	4500
	Maximum Power Input	W	880
	Rated Power Input	W	840
	Moisture Removal	Pints/h	3.80
	Sensible Heat Factor		0.66
	Power Factor [208V / 230V]	%	80 / 80
Heating at 47F[2]	Maximum Capacity	Btu/h	19000
	Rated Capacity	Btu/h	19000
	Minimum Capacity	Btu/h	4500
	Maximum Power Input	W	1730
	Rated Power Input	W	1730
	Power Factor [208V / 230V]	%	93 / 93
Heating at 17F[3]	Maximum Capacity	Btu/h	10200
	Rated Capacity	Btu/h	10200
	Maximum Power Input	W	1150
	Rated Power Input	W	1150
Heating at 5F[5]	Maximum Capacity	Btu/h	8500
	Maximum Power Input	W	1245
Heating at -4F[6]	Maximum Capacity	Btu/h	7500
Efficiency	SEER2		20
	EER2[1]		14.20
	HSPF2 [IV]		9.80
	COP at 47°F[2]		3.20
	COP at 17°F at Maximum Capacity[3]		2.50
	COP at 5°F at Maximum Capacity[5]		2
	COP at -4°F at Maximum Capacity[6]		1.92
	ENERGY STAR® Certified		Yes
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	20
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	3
	Fan Motor Output	W	121
	Fan Motor Type		Direct-driven DC Brushless Motor
	Airflow Rate at Cooling, Dry	CFM	280 , 340 , 400
	Airflow Rate at Heating, Dry	CFM	280 , 340 , 400
	Sound Pressure Level [Cooling]	dB (A)	31 , 35 , 38
	Sound Pressure Level [Heating]	dB (A)	31 , 35 , 38
	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]	17 x 21-5/8 x 50-1/4 [432 x 548 x 1275]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	18-1/8 x 28-11/16 x 56-15/16 [460 x 728 x 1446]
	Unit Weight	lbs [kg]	113 [51]
	Package Weight	lbs [kg]	133 [60]
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	16
	MOCP	A	27
	Fan Motor Output	W	51

Notes

[1]Cooling (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB - test
[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
[*]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.
[6]Heating at -4°F (Indoor // Outdoor) °F 70 DB, 60 WB // -4 DB, -5 WB

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SPECIFICATIONS: PVA-AA12NL & PUZ-AK12NL

Outdoor Unit	Airflow Rate Cooling	CFM	1590
	Airflow Rate Heating	CFM	1590
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling[1]	dB (A)	44
	Sound Pressure Level, Heating[2]	dB (A)	46
	Compressor Type		Twin Rotary
	Compressor Model		SRB140FQHMC-L1
	Compressor Oil [Type // Charge]	// oz	RM68EH // 16
	External Finish Color		Munsell 3Y 7.8/1.1
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/16 x 11-13/16 x 24-13/16 [871 x 300 x 630]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-1/16 x 16-3/16 x 32-1/4 [941 x 411 x 819]
	Unit Weight	lbs [kg]	99 [45]
	Package Weight	lbs [kg]	112.44 [51]
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	4 , 6
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30]
	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 - test
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[3]Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB
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INDOOR UNIT ACCESSORIES: PVA-AA12NL

Condensate	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	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
	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 MicroBlue Condensate Pump 115-230V up to 18k BTU/h	☐ X86-003
Control Interface	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Airzone Wired Lite Controller White	☐ AZZBSLITECB
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	IT Extender	☐ PAC-WHS01IE-E
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
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	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
	(30A/600V/UL) [fits 2” X 4” utility box] - White	☐ TAZ-MS303W
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 - Small Cabinet	☐ EH05-MPA-SB
	3kW Electric Heater Module - Small Cabinet	☐ EH03-MPA-SB
Lineset	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	☐ MLS141212T-15
	1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet	☐ MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet	☐ MLS141212T-30
	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	☐ MLS141212T-100
	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	☐ MLS141212T-65
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
	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-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	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 Remote Contoller	☐ PAR-SL101A-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless RedLINK™ Remote Controller	☐ MHK2
	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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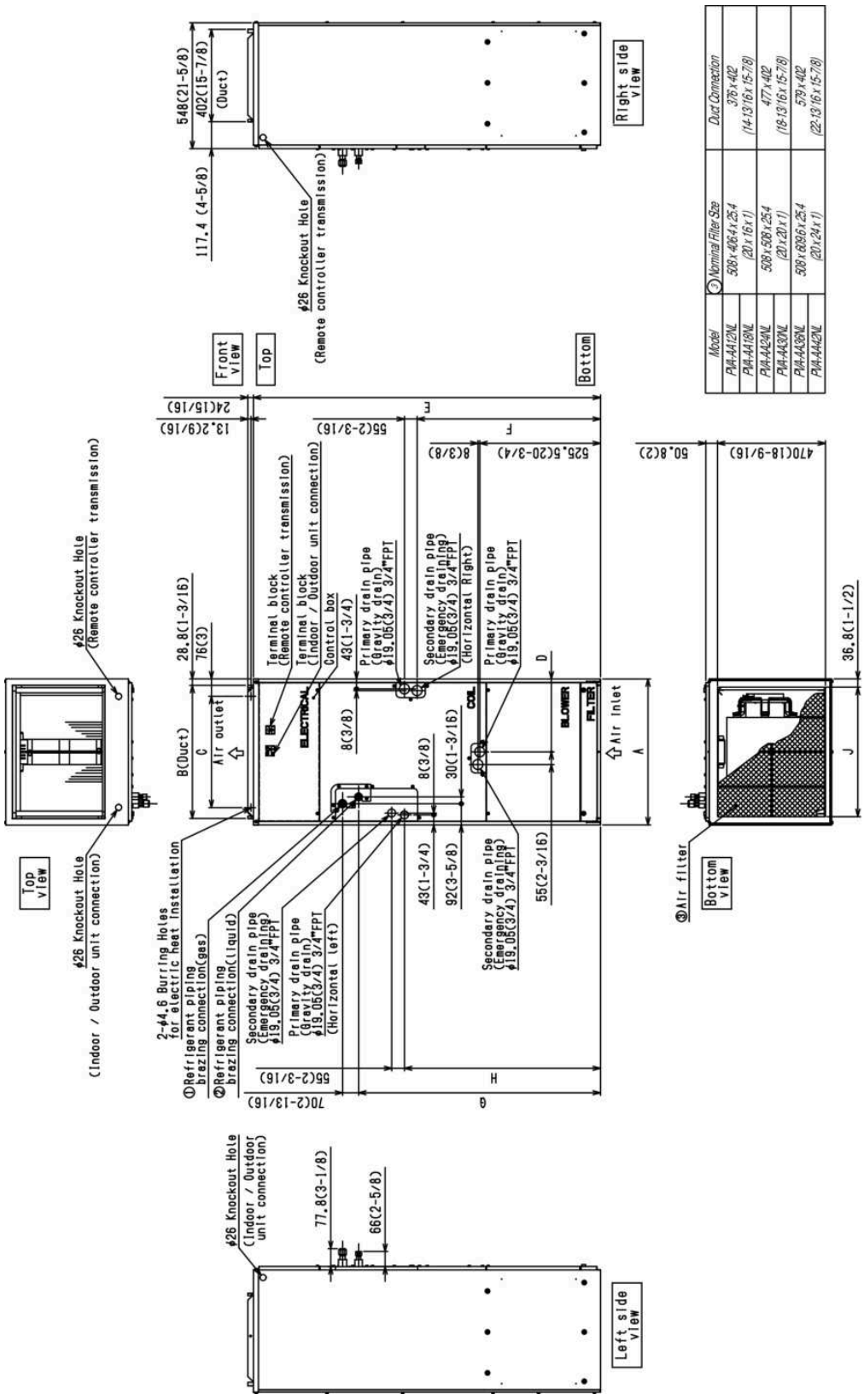
OUTDOOR UNIT ACCESSORIES: PUZ-AK12NL

Air Outlet Guide	Air Outlet Guide	☐ PAC-SJ07SG-E
Centralized Drain Pan	Centralized Drain Pan	☐ PAC-SG63DP-E
Control/Service Tool	ControlService Tool	☐ PAC-SK52ST
	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐ M21EC0397
Drain Socket	Drain Socket	☐ MAC-871DS
Hail Guards	Hail Guard	☐ HG-A5
M-NET Converter	M-Net Interface for P-Series	☐ PAC-SJ96MA-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 Armored MiniSplit Cable250 ft roll	☐ SW144-250
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐ S144-250
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐ ULTRILITE1
Snow/Rain Diverter	SnowRain Diverter	☐ SRD-2
Stand	24 Single Fan Stand	☐ QSMS2401M
	Condenser Wall Bracket	☐ QSWB2000M-1
	18 Single Fan Stand	☐ QSMS1801M
	Condenser Wall Bracket - Stainless Steel Finish	☐ QSWBSS
	Outdoor Unit Stand 12 High	☐ QSMS1201M
	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	Rear Wind Baffle	☐ WB-RE4
	Front Wind Baffle	☐ WB-PA4
	Side Advanced Wind Baffle	☐ WB-SD4
Notes		

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INDOOR UNIT DIMENSIONS: PVA-AA12NL



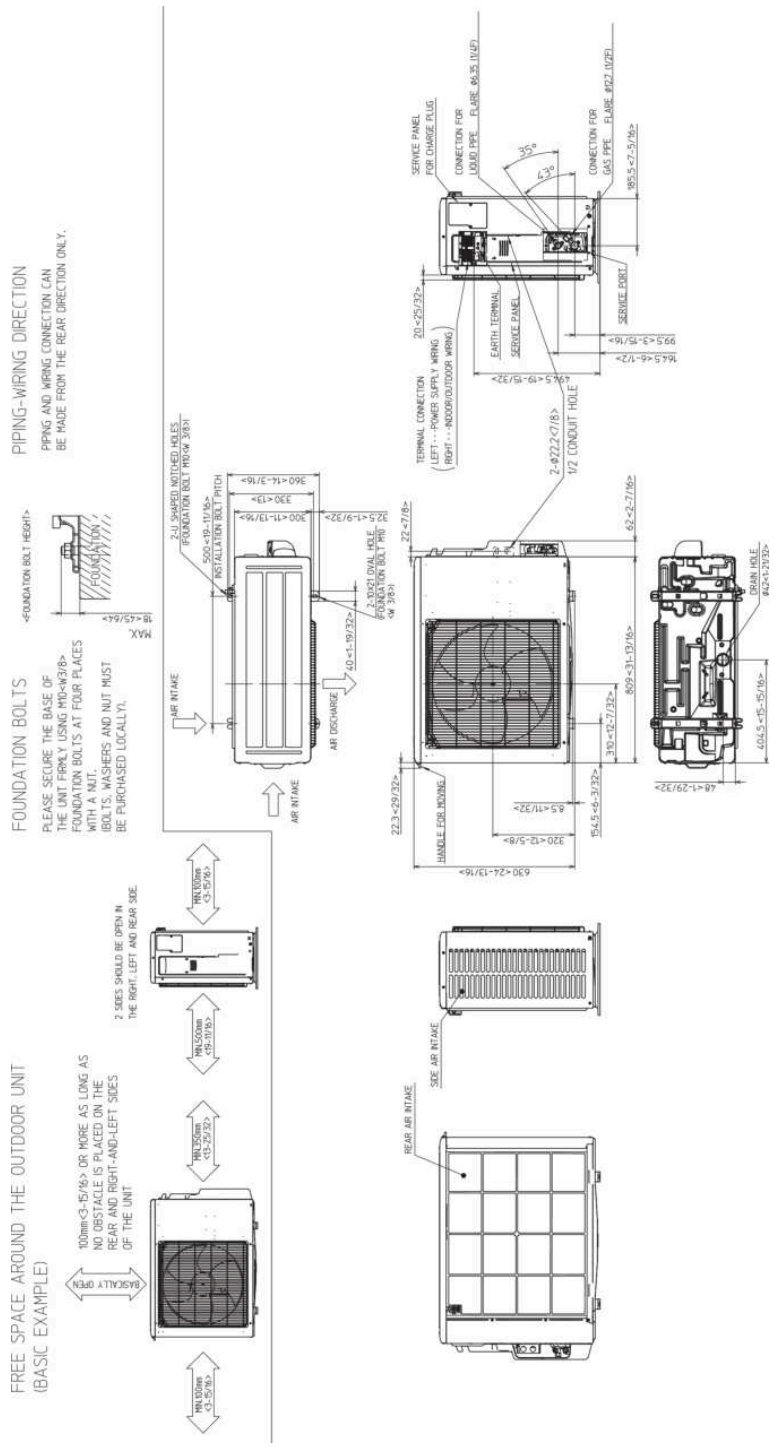
Model	③ Nominal Filter Size	Duct Connection
PVA-AA12NL	508 x 406.4 x 25.4 (20 x 16 x 1)	376 x 402 (14-13/16 x 15-7/8)
PVA-AA18NL		
PVA-AA24NL	508 x 508 x 25.4 (20 x 20 x 1)	477 x 402 (18-13/16 x 15-7/8)
PVA-AA30NL		
PVA-AA36NL	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)
PVA-AA42NL		

Model	A	B	C	D	E	F	G	H	J	① Gas Pipe	② Liquid Pipe
PVA-AA12NL	422 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	880 (26-13/16)	823 (32-7/16)	735.5 (29)	380 (14-9/16)	12.7 (1/2)	6.35 (1/4)
PVA-AA18NL											
PVA-AA24NL	534 (21)	477 (18-13/16)	382.6 (15-1/8)	286.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	935.5 (37-9/16)	782 (31-3/16)	461 (18-3/16)	15.88 (5/8)	9.52 (3/8)
PVA-AA30NL											
PVA-AA36NL	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)	1063 (41-1/2)	835.5 (33-5/8)	563 (22-3/16)		
PVA-AA42NL											

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OUTDOOR UNIT DIMENSIONS: PUZ-AK12NL



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