PLA-AE12NL & PUZ-AK12NL 12,000 BTU/H CEILING CASSETTE INDOOR UNIT 12,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:
System Reference:
Date:



Indoor Unit	PLA-AE12N
Outdoor Unit	PUZ-AK12N

INDOOR UNIT FEATURES

- 3D i-see Sensor®: The advanced sensor scans each room to produce a complete thermal profile that includes heat signatures based upon size, temperature and movement, then adjusts temperature and airflow based on user preference, and saves energy according to room occupancy.
- Available Knockouts: Knockouts for outside-air intake and branch-duct run
- · Built-in condensate lift mechanism
- · Easy-to-clean filter: Easy-to-clean, washable filter (optional high-efficiency filter available requires multi-function casement)
- · Filter indicator signal
- · Ideal PLA spaces: Ideal for retail shops, classrooms, office spaces, conference centers, building lobbies, and more
- · Individual vane settings: Individual vane settings for direct/indirect airflow control or variable airflow patterns
- · Light commercial: Units with this icon are suitable for light commercial applications such as small offices, restaurants, and retail.
- · Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers
- · PLA Airflow settings: Airflow settings for high and low ceiling applications
- · Space-efficient ductless installation
- Up and down swing-mode: An indoor unit with this capability can move air up and down throughout the room like an oscillating fan using the horizontal
 vanes

OUTDOOR UNIT FEATURES

- Blue Fin Coating: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- Continuous operation: 24-hour continuous operation (cooling mode)
- · Fast restart
- · High pressure protection
- · High pressure/temperature protection
- · INVERTER-driven compressor: An inverter-driven compressor generates the precise capacity needed to maintain a temperature set point.
- Low ambient cooling: Low ambient cooling down to 0°F providing 100% capacity
- Pre-charged refrigerant: 12k -30k BTU/h come pre-charged for ease of installation. 24k 30k BTU/h are pre-charged to maximum line length of 225 feet. 12k 18k BTU/h are pre-charged for up to 165 feet of line length. For units with a capacity of 36,000 BTU/h and above, additional refrigerant charges will be required.
- Seacoast protection: Seacoast Protection, made standard in the 2022 production, features a robust anti-corrosion system with phosphate and acrylic-enamel coated external panels, epoxy resin-coated fan motor support and separator assembly valve beds, and Blue Fin treatment for the heat exchanger coil. These components are rated for 2,000 hours of durability under ASTM B117 testing standards, ensuring longevity in corrosive coastal environments.
- Superior energy and operational efficiency

SPECIFICATIONS: PLA-AE12NL & PUZ-AK12NL

	Maximum Capacity	Btu/h	12,400
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	4,900
	Maximum Power Input	W	730
ooling at 95F¹	Rated Power Input	W	700
	Moisture Removal	Pints/h	1.1
	Sensible Heat Factor	-	0.9
	Power Factor [208V / 230V]	%	85 / 85
	Maximum Capacity	Btu/h	20,000
	Rated Capacity	Btu/h	20,000
	Minimum Capacity	Btu/h	4,200
Heating at 47F ²	Maximum Power Input	W	1,540
	Rated Power Input	W	1,542
	Power Factor [208V / 230V]	%	97 / 97
	Maximum Capacity	Btu/h	10,700
	Rated Capacity	Btu/h	10,700
eating at 17F³	Maximum Power Input	W	1,100
	Rated Power Input	W	1,100
	·		8,800
eating at 5F4	Maximum Capacity Maximum Power Input	Btu/h W	·
pating at 4E5	Maximum Power Input		1,120 7,800
eating at -4F ⁵	Maximum Capacity	Btu/h	·
	SEER2		24.8
	EER21		17.1
	HSPF2 [IV]		10.9
ficiency	COP at 47°F ²		3.8
·	COP at 17°F at Maximum Capacity³		2.8
	COP at 5°F at Maximum Capacity ⁴		2.3
	COP at -4°F at Maximum Capacity⁵		2.12
	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC, , Hz	208 / 230, 1, 60
	Guaranteed Voltage Range	V AC	198 - 264
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
ectrical	Voltage: Indoor - Outdoor, S2-S3	V DC	27
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	20
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Fan Motor Output	W	50
	Airflow Rate at Cooling, Dry	CFM	370, 460, 490, 530
	Airflow Rate at Heating, Dry	CFM	370, 460, 490, 530
	Sound Pressure Level [Cooling]	dB (A)	26, 27, 29, 30
	Sound Pressure Level [Heating]	dB (A)	26, 27, 29, 30
	External Finish Color		1.0Y 9.2/0.2
door Unit	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 33-1/16 x 10-3/16 [840 x 840 x 258]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-5/16 x 35-9/16 x 15 [871 x 903 x 381]
	Unit Weight	lbs [kg]	46 [21]
	Package Weight	lbs [kg]	71 [32]
	Fan Motor Type		DC Motor
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	90, 73 / 66, 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	82 / 50
eating at 47°F (Indoor: 70°F DB, 6 eating at 17°F (Indoor: 70°F DB, 6 eating at 5°F (Indoor: 70°F DB, 60 eating at -4°F (Indoor: 70°F DB, 60	67°F WB // Outdoor: 95°F DB, 75°F WB) 0°F WB // Outdoor: 47°F DB, 43°F WB) 0°F WB // Outdoor: 17°F DB, 15°F WB) 0°F WB // Outdoor: 5°F DB, 4°F WB) 0°F WB // Outdoor: 4°F DB, 5°F WB) 0°F WB // Outdoor: 4°F DB, 4°F TWB, 10°F WB) 0°F WB // Outdoor: 4°F DB, 4°F TWB, 10°F WB, 10°F		
Wind baffles required to operate be Heat pump system with wind baffle Refer to wind baffle documentation	: 0°F - 115°F.	pating Thermal Lock out / Re-start Tar	mneratures)

SPECIFICATIONS: PLA-AE12NL & PUZ-AK12NL

	MCA	A	16
	MOCP	A	27
	Fan Motor Output	W	51
	Airflow Rate Cooling	CFM	1,590
	Airflow Rate Heating	CFM	1,590
	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
Outdoor Unit	Compressor Type		Twin Rotary
	Compressor Model		SRB140FQHMC□L1
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 16
	External Finish Color		Munsell No.3Y 7.8/1.1
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-19/64 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]
	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 23
ODU Operating Temp. Range	Heating Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -4, -4
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-13 / -4
	Туре		R454B
Defrimenent	Pre-Charged Refrigerant Amount	lbs, oz	4, 6
Refrigerant	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0
	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
Piping	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

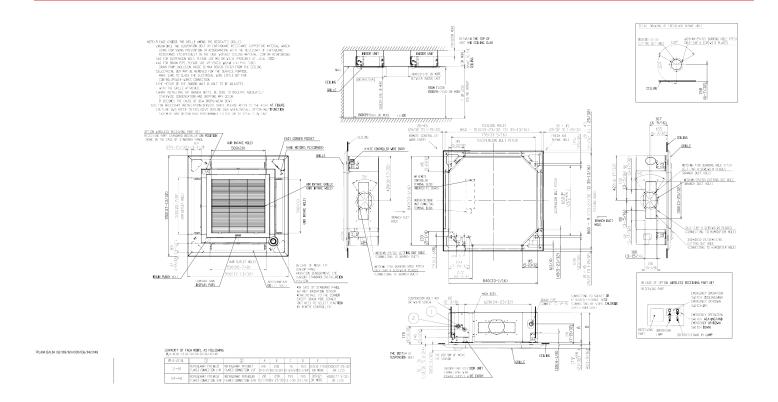
INDOOR UNIT ACCESSORIES: PLA-AE12NL

	Shutter Plate	PAC-SJ37SP-E
	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
Wired Remote Controller	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller ¹	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller 1	PAR-CT01MAU-SB
Power Supplies & Auxiliary	3-Pin Wiring Harness	PAC-715AD
omponents	5-Pin Wiring Harness	PAC-725AD
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
ondensate	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Sauermann Condensate Pump	SI30-230
	100 x 1/4 x 100 1/2 Lineset Twin-Tube Insulation	MLS141212T-100
	15 x 1/4 x 15 1/2 Lineset Twin-Tube Insulation	MLS141212T-15
neset	30 x 1/4 x 30 1/2 Lineset Twin-Tube Insulation	MLS141212T-30
	50 x 1/4 x 50 1/2 Lineset Twin-Tube Insulation	MLS141212T-50
	65 x 1/4 x 65 1/2 Lineset Twin-Tube Insulation	MLS141212T-65
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
ontrol Interface	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	Operation and Error Status Output Adapter ¹	PAC-SF40RM-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
sconnect Switch	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
	Universal Wireless MA Handheld Remote Controller	PAR-FL32MA-E
fireless Remote Controller	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless Handheld Remote Controller for SLZ PLA and PLFY models	PAR-SL101A-E
	Wireless Receiver for PAR-SL101A-E on PLA-NL and PLFY-ELNEMU models	PAR-SR4LU-E
	Wireless Remote Receiver Panel	PAR-SR3LA-E
Remote Sensor	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	PAC-USSEN002-FM-1
	Wall Mount Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
asement	Multi-function Casement	PAC-SJ41TM-E
ter	High Efficiency Filter Element	PAC-SH59KF-E
pace Panel	Space Panel	PAC-SJ38AS-E
ower Supplies and Auxiliary	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
omponents		

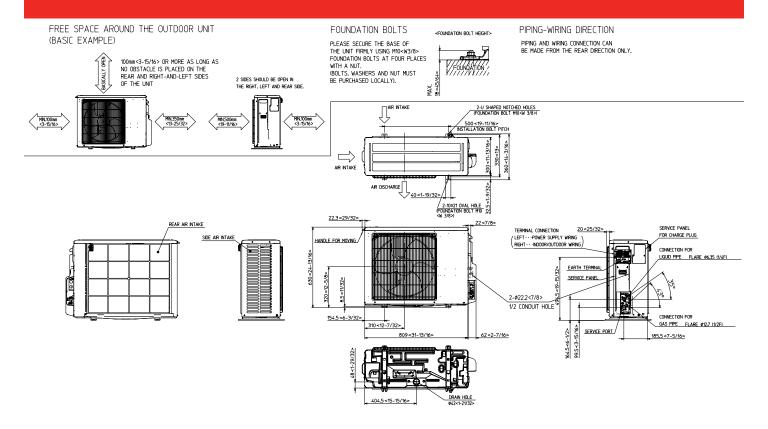
OUTDOOR UNIT ACCESSORIES: PUZ-AK12NL

-NET Converter OTES	M-Net Interface for P-Series	PAC-SJ96MA-E
entralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E
now/Rain Diverter	SnowRain Diverter	SRD-2
ounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
rain Socket	Drain Socket	MAC-871DS
ail Guards	Hail Guard	HG-A5
	Side Advanced Wind Baffle	WB-SD4
/ind Baffle	Rear Wind Baffle	WB-RE4
	Front Wind Baffle	WB-PA4
omponents	5-Pin Wiring Harness	PAC-725AD
ower Supplies & Auxiliary	3-Pin Wiring Harness	PAC-715AD
	Maintenance Tool Interface	PAC-USCMS-MN-1
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	ControlService Tool	PAC-SK52ST
r Outlet Guide	Air Outlet Guide	PAC-SJ07SG-E
	Outdoor Unit Stand 12 High	QSMS1201M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
Mini-Split Wire	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Condenser Wall Bracket	QSWB2000M-1
	24 Single Fan Stand	QSMS2401M
	18 Single Fan Stand	QSMS1801M
	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

INDOOR UNIT DIMENSIONS: PLA-AE12NL



OUTDOOR UNIT DIMENSIONS: PUZ-AK12NL



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