

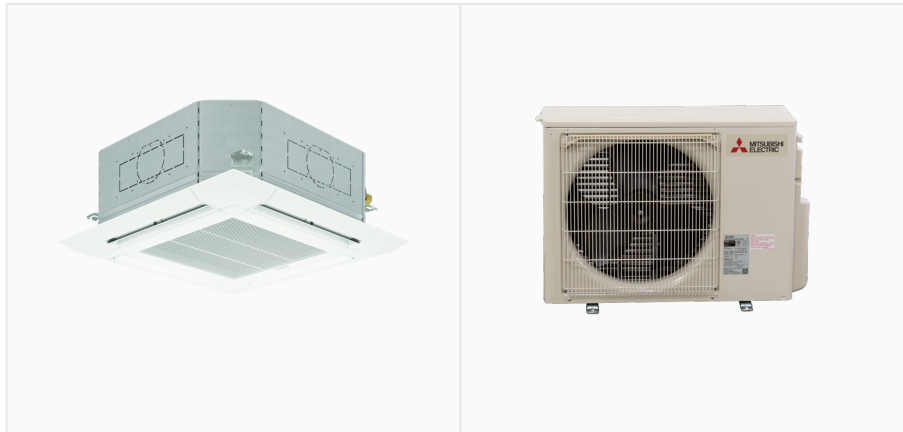
PLA-AE18NL & PUZ-AK18NL
18,000 BTU/H CEILING CASSETTE INDOOR UNIT
18,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PLA-AE18NL
OUTDOOR Unit ... PUZ-AK18NL

INDOOR UNIT FEATURES

- **3D i-see Sensor® (Built-in):** This advanced sensor scans the room for occupancy, then adjusts temperature and airflow based on user preferences, and saves energy when a room is empty.
- **Swing Mode:** An indoor unit with this capability can move air throughout the room like an oscillating fan.
- **Light Commercial:** Light commercial applications include small offices, restaurants, and retail.
- **Horizontal Vane Control:** Horizontal Vane Control allows the indoor unit vanes to be moved left right to provide even temperatures throughout a space.
- **Ventilation Air Intake:** A duct opening is provided, which allows outside air to be brought inside so it can be heated or cooled.
- **Condensate Lift Mechanism:** A built-in condensate lift mechanism removes water that is collected during operation and reduces the need for an additional pump to remove condensate water.

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: PLA-AE18NL & PUZ-AK18NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	18500
	Rated Capacity	Btu/h	18000
	Minimum Capacity	Btu/h	5000
	Maximum Power Input	W	1360
	Rated Power Input	W	1310
	Moisture Removal	Pints/h	3.80
	Sensible Heat Factor		0.77
	Power Factor [208V / 230V]	%	96 / 96
Heating at 47F ²	Maximum Capacity	Btu/h	24000
	Rated Capacity	Btu/h	23000
	Minimum Capacity	Btu/h	4200
	Maximum Power Input	W	1880
	Rated Power Input	W	1821
	Power Factor [208V / 230V]	%	97 / 97
Heating at 17F ³	Maximum Capacity	Btu/h	12000
	Rated Capacity	Btu/h	12000
	Maximum Power Input	W	1310
	Rated Power Input	W	1310
Heating at 5F ⁵	Maximum Capacity	Btu/h	9400
	Maximum Power Input	W	1250
Heating at -4F ⁶	Maximum Capacity	Btu/h	8800
Heating at -13F ⁹	Maximum Capacity	Btu/h	
Efficiency	SEER2		24.70
	EER2 ¹		13.70
	HSPF2 [IV]		9.80
	COP at 47°F ²		3.70
	COP at 17°F at Maximum Capacity ³		2.60
	COP at 5°F at Maximum Capacity ⁵		2.20
	COP at -4°F at Maximum Capacity ⁶		2.16
	COP at -13°F at Maximum Capacity ⁹		
Electrical	ENERGY STAR® Certified		Yes
	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	Fan Motor Output	W	50
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	460 , 490 , 570 , 600
	Airflow Rate at Heating, Dry	CFM	460 , 490 , 570 , 600
	Sound Pressure Level [Cooling]	dB (A)	28 , 29 , 31 , 32
	Sound Pressure Level [Heating]	dB (A)	28 , 29 , 31 , 32
	Dual Barrier Coating on Fan		No
	External Finish Color		1.0Y 9.2/0.2
	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]
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	16
	MOCP	A	27
	Fan Motor Output	W	51

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

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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]	34-19/64 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]
ODU Operating Temp. Range	Package Weight	lbs [kg]	112.44 [51]
	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	4 , 6
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.7]
	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 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			

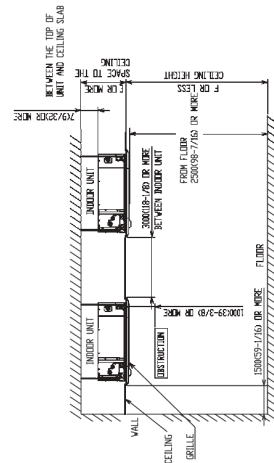
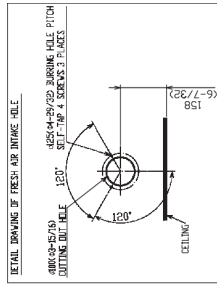
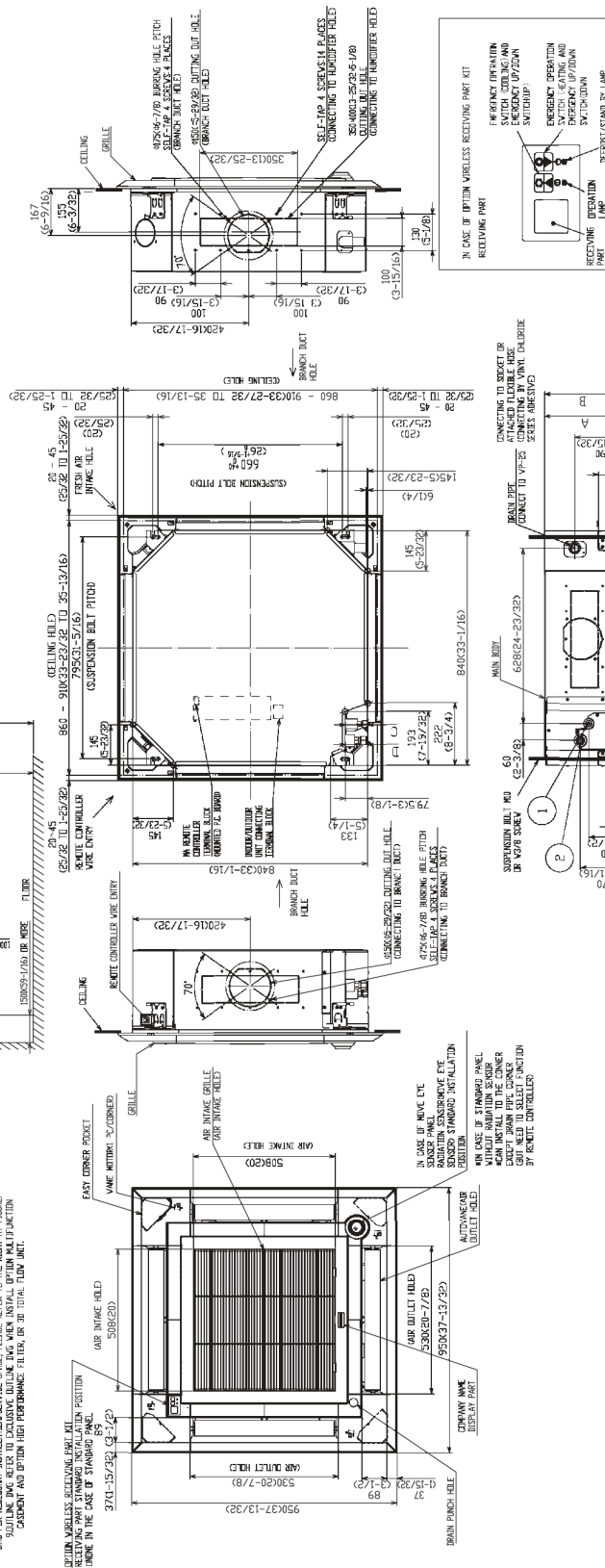
INDOOR UNIT ACCESSORIES: PLA-AE18NL

3D Flow	3D Total Flow Unit	☐	PLP-U160ELR-E
Casement	Multi-function casement	☐	PAC-SJ41TM-E
Condensate	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	☐	X86-003
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐	COMBI
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐	X87-711
	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
	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
Control Interface	Airzone Wireless Think Controller White	☐	AZZBSTHINKRB
	Airzone Wired Blueface Controller Black	☐	AZZBSBLUEZEROCN
	Operation and Error Status Output Adapter	☐	PAC-SF40RM-E
	Procon BACnet® and Modbus® Interface	☐	PAC-UKPRC001-CN-1
	IT Extender	☐	PAC-WHS01IE-E
	Thermostat Interface for 3rd Party Thermostats	☐	PAC-US445CN-1
	Airzone Wired Blueface Controller White	☐	AZZBSBLUEZEROCB
	kumo station® for Comfort app	☐	PAC-WHS01HC-E
	Wireless Interface 2 for Comfrot app	☐	PAC-USWHS002-WF-2
	Airzone Wireless Think Controller Black	☐	AZZBSTHINKRN
	Airzone Wireless Lite Controller White	☐	AZZBSLITERB
	Airzone Wireless Lite Controller Black	☐	AZZBSLITERN
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐	TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	☐	TAZ-MS303
Filter	High efficiency filter element (requires PAC-SJ41TM-E)	☐	PAC-SH59KF-E
Grille	Grille (3D i-See sensor panel)	☒	PLP-41EAEU
Lineset	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	☐	MLS141212T-100
	1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet	☐	MLS141212T-30
	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	☐	MLS141212T-65
	1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet	☐	MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	☐	MLS141212T-15
N/A		☐	Unknown
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
Shutter Plate	Air outlet shutter plate	☐	PAC-SJ37SP-E
Terminal Signal Adapter	Backup Heat Relay Kit	☐	CN24RELAY-KIT-CM3
	3-Pin Wiring Harness	☐	PAC-715AD
	5-Pin Wiring Harness	☐	PAC-725AD
Wired Remote Controller	Touch MA Remote Controller	☐	PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	☐	PAC-SDW01RC-1
	Deluxe MA Wired Remote Controller	☐	PAR-42MAAUB
	Simple MA Remote Controller	☐	PAC-YT53CRAU-J
Wireless Remote Controller	Wireless Remote Receiver Panel	☐	PAR-SR3LA-E
	Wireless Remote Contoller	☐	PAR-SL101A-E
	Wireless RedLINK™ Remote Controller	☐	MHK2
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐	RCMKP1CB
	Wireless signal receiver (corner panel) (for PAR-SL101A-E / PAR-FL32MA)	☐	PAR-SR4LU-E
Notes			

OUTDOOR UNIT ACCESSORIES: PUZ-AK18NL

Air Outlet Guide	Air Outlet Guide	☐	PAC-SJ07SG-E
Centralized Drain Pan	Centralized Drain Pan	☐	PAC-SG63DP-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
	ControlService Tool	☐	PAC-SK52ST
	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
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 MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-2
Stand	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	Condenser Wall Bracket	☐	QSWB2000M-1
	24 Single Fan Stand	☐	QSMS2401M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	18 Single Fan Stand	☐	QSMS1801M
Terminal Signal Adapter	5-Pin Wiring Harness	☐	PAC-725AD
	3-Pin Wiring Harness	☐	PAC-715AD
Wind Baffle	Side Advanced Wind Baffle	☐	WB-SD4
	Rear Wind Baffle	☐	WB-RE4
	Front Wind Baffle	☐	WB-PA4
Notes			

INDOOR UNIT DIMENSIONS: PLA-AE18NL

[illegible]

CAPACITY OF EACH WHEEL AS FOLLOWING									
P.L.A.-E.N.		①		②		③		④	
P.L.A.-E.N.	①	②	A	B	C	D	E	F	
12 18	WHEEL P.W. 105	WHEEL COMPLETION 1/27	24	258	75	765	3570	73	250
	WHEEL COMPLETION 1/27	WHEEL COMPLETION 1/27	19	19	19	23	1/42	1/44	18
24 48	WHEEL P.W. 105	WHEEL COMPLETION 1/27	24	258	75	765	3570	73	250
	WHEEL COMPLETION 1/27	WHEEL COMPLETION 1/27	19	19	19	23	1/42	1/44	18

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