

PLA-AE48NL & PUZ-AK48NLHZ
48,000 BTU/H CEILING CASSETTE INDOOR UNIT
48,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PLA-AE48NL
OUTDOOR Unit ... PUZ-AK48NLHZ

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

- **H2i® Hyper-Heating:** 100% heating performance down to 5° F with guaranteed heating down to -13° F.
- **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.
- **Base Pan Heater:** This advanced base pan heater helps to prevent interrupted operation due to water freezing after a defrost cycle, ensuring your warmth and comfort during colder weather.
- **Seacoast Protection:** Designed to protect against the corrosive effects of environments that are in close proximity to the sea.
- **Flash Injection:** Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.

SPECIFICATIONS: PLA-AE48NL & PUZ-AK48NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	49000
	Rated Capacity	Btu/h	48000
	Minimum Capacity	Btu/h	16800
	Maximum Power Input	W	4770
	Rated Power Input	W	4560
	Moisture Removal	Pints/h	14.60
	Sensible Heat Factor		0.67
	Power Factor [208V / 230V]	%	99 / 99
Heating at 47F ²	Maximum Capacity	Btu/h	60000
	Rated Capacity	Btu/h	60000
	Minimum Capacity	Btu/h	16000
	Maximum Power Input	W	5328
	Rated Power Input	W	5328
	Power Factor [208V / 230V]	%	99 / 99
Heating at 17F ³	Maximum Capacity	Btu/h	52000
	Rated Capacity	Btu/h	36600
	Maximum Power Input	W	7260
	Rated Power Input	W	4110
Heating at 5F ⁵	Maximum Capacity	Btu/h	52000
	Maximum Power Input	W	8021
Heating at -4F ⁶	Maximum Capacity	Btu/h	
Heating at -13F ⁹	Maximum Capacity	Btu/h	39600
Efficiency	SEER2		20.10
	EER2 ¹		10.50
	HSPF2 [IV]		9.20
	COP at 47°F ²		3.30
	COP at 17°F at Maximum Capacity ³		2
	COP at 5°F at Maximum Capacity ⁵		1.90
	COP at -4°F at Maximum Capacity ⁶		
	COP at -13°F at Maximum Capacity ⁹		1.84
	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	40
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	2
	Fan Motor Output	W	120
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	740 , 920 , 1060 , 1200
	Airflow Rate at Heating, Dry	CFM	740 , 920 , 1060 , 1200
	Sound Pressure Level [Cooling]	dB (A)	34 , 38 , 42 , 45
	Sound Pressure Level [Heating]	dB (A)	34 , 38 , 42 , 45
	Drain Pipe Size O.D.	inch [mm]	1-1/4 [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 11-3/4 [840 x 840 x 298]
	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]	57 [26]
	Package Weight	lbs [kg]	82 [37]
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	77 / 59
Outdoor Unit	MCA	A	35

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

⁹Heating at -13°F (Indoor // Outdoor) °F 70 DB, 60 WB // -13 DB, -14 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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Outdoor Unit	MOCP	A	60
	Fan Motor Output	W	200+200
	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		MRK53FFJMC-L
	Compressor Oil [Type // Charge]	// oz	RM68EH // 60
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	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]
ODU Operating Temp. Range	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]
	Unit Weight	lbs [kg]	271 [123]
	Package Weight	lbs [kg]	298 [135]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 23
Refrigerant	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	70 , 59 / -13 , -13
	Heating Thermal Lock-out / Re-start Temperatures**	F	-22 / -13
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	11 , 7
Piping	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
	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]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

Notes

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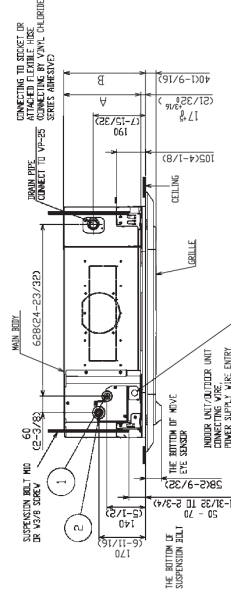
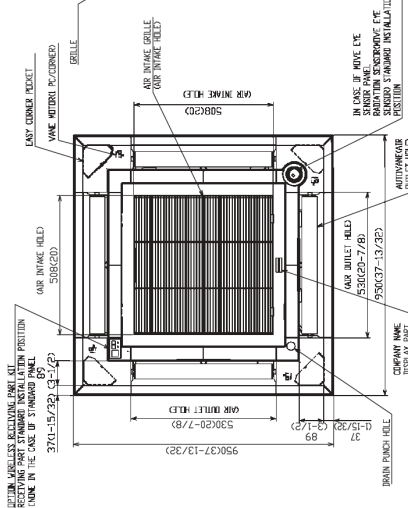
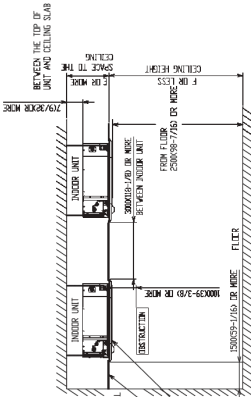
INDOOR UNIT ACCESSORIES: PLA-AE48NL

3D Flow	3D Total Flow Unit	☐	PLP-U160ELR-E
Casement	Multi-function casement	☐	PAC-SJ41TM-E
Condensate	Refco Condensate Pump 100-240V up to 120k BTU/h	☐	COMBI
	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 (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 MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐	X87-835
Control Interface	kumo station® for Comfort app	☐	PAC-WHS01HC-E
	Airzone Wireless Think Controller Black	☐	AZZBSTHINKRN
	IT Extender	☐	PAC-WHS01IE-E
	Airzone Wired Blueface Controller White	☐	AZZBSBLUEZEROCB
	Airzone Wireless Think Controller White	☐	AZZBSTHINKRB
	Wireless Interface 2 for Comfrot app	☐	PAC-USWHS002-WF-2
	Airzone Wireless Lite Controller White	☐	AZZBSLITERB
	Airzone Wireless Lite Controller Black	☐	AZZBSLITERN
	Operation and Error Status Output Adapter	☐	PAC-SF40RM-E
	Airzone Wired Blueface Controller Black	☐	AZZBSBLUEZEROCN
	Thermostat Interface for 3rd Party Thermostats	☐	PAC-US445CN-1
	Procon BACnet® and Modbus® Interface	☐	PAC-UKPRC001-CN-1
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	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	☐	MPLS385812T-30
	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 - 10 feet	☐	MPLS385812T-10
	3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet	☐	MPLS385812T-50
N/A		☐	Unknown
Remote Sensor	Wall Mounted Remote Temperature Sensor	☐	PAC-SE41TS-E
	Wireless temperature and humidity sensor for Comfort app	☐	PAC-USWHS003-TH-1
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐	PAC-USSEN002-FM-1
Shutter Plate	Air outlet shutter plate	☐	PAC-SJ37SP-E
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	Simple MA Remote Controller	☐	PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller	☐	PAR-42MAAUB
	Touch MA Remote Controller	☐	PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	☐	PAC-SDW01RC-1
Wireless Remote Controller	Wireless signal receiver (corner panel) (for PAR-SL101A-E / PAR-FL32MA)	☐	PAR-SR4LU-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐	RCMKP1CB
	Wireless RedLINK™ Remote Controller	☐	MHK2
	Wireless Remote Controller	☐	PAR-SL101A-E
	Wireless Remote Receiver Panel	☐	PAR-SR3LA-E
Notes			

OUTDOOR UNIT ACCESSORIES: PUZ-AK48NLHZ

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	ControlService Tool	☐	PAC-SK52ST
	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
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 Armored MiniSplit Cable250 ft roll	☐	SW144-250
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	☐	ULTRILITE2
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-5
Stand	24 Dual Fan Stand	☐	QSMS2402M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	Outdoor Unit Stand 12 High	☐	QSMS1202M
	18 Dual Fan Stand	☐	QSMS1802M
Terminal Signal Adapter	5-Pin Wiring Harness	☐	PAC-725AD
	3-Pin Wiring Harness	☐	PAC-715AD
Wind Baffle	Front Wind Baffle	☐	WB-PA3 (two pieces required)
Notes			

INDOOR UNIT DIMENSIONS: PLA-AE48NL



PLA-FLAL	①	②	A	B	C	D	E	F
12 19	RETENUE PTE 625 FLAME CONNECTION 1/8"	RETENUE PTE 127 FLAME CONNECTION 1/8"	241 P-1/25	250 P-25	743 P-330 (4-1/2)	743 P-330 (4-1/2)	8520 P-330 (4-1/2)	8520 P-330 (4-1/2)
24 46	RETENUE PTE 692 FLAME CONNECTION 3/8"	RETENUE PTE 626 FLAME CONNECTION 3/8"	26	296 P-296	793 P-392 (4-1/2)	793 P-392 (4-1/2)	8017 P-392 (4-1/2)	8017 P-392 (4-1/2)

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