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.

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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

[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
[9]Heating 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]
	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]
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 / -13 , -13
	Heating Thermal Lock-out / Re-start Temperatures**	F	-22 / -13
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	11 , 7
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
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]	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 Contoller	☐ PAR-SL101A-E
	Wireless Remote Receiver Panel	☐ PAR-SR3LA-E
Notes		

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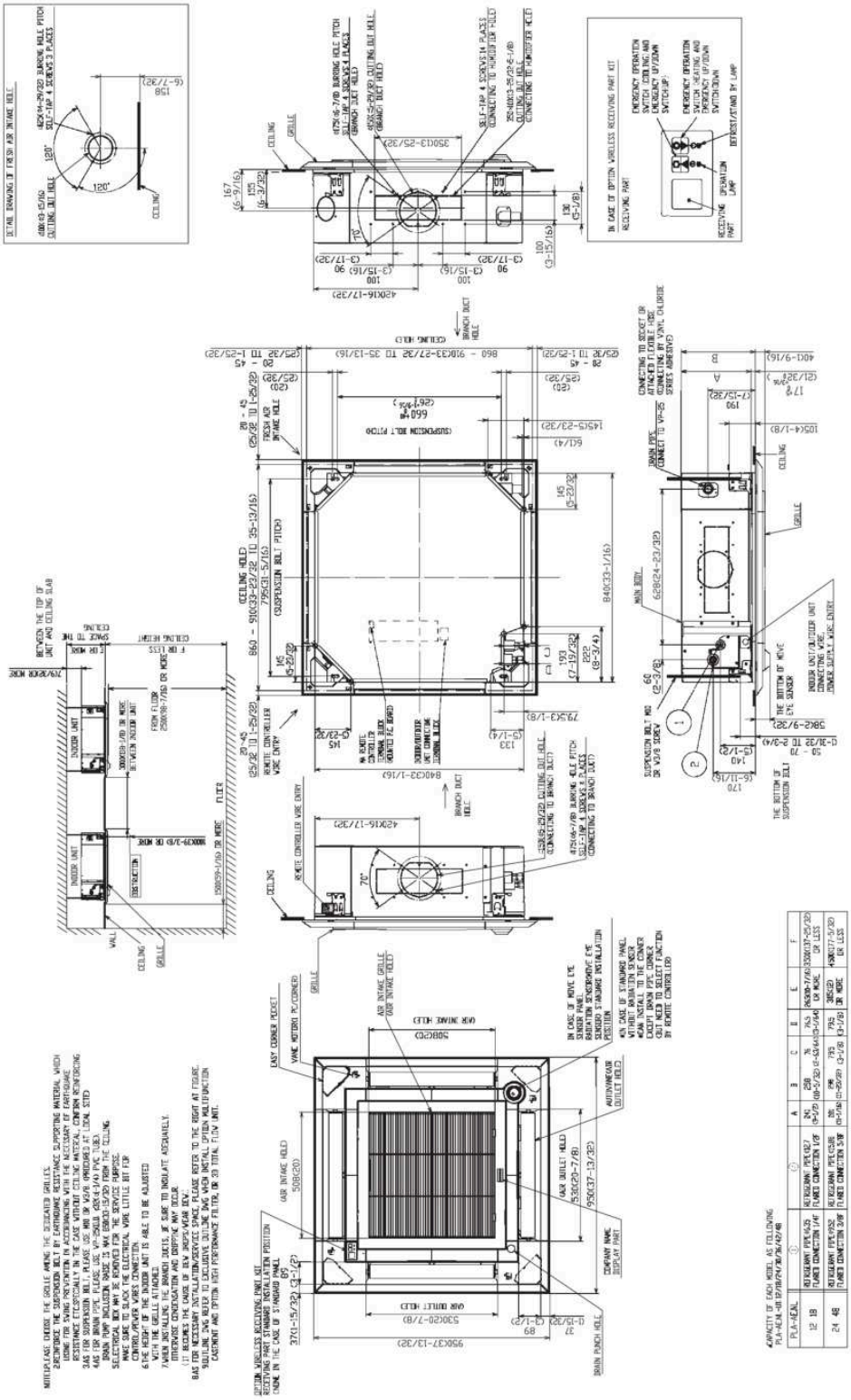
OUTDOOR UNIT ACCESSORIES: PUZ-AK48NLHZ

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		

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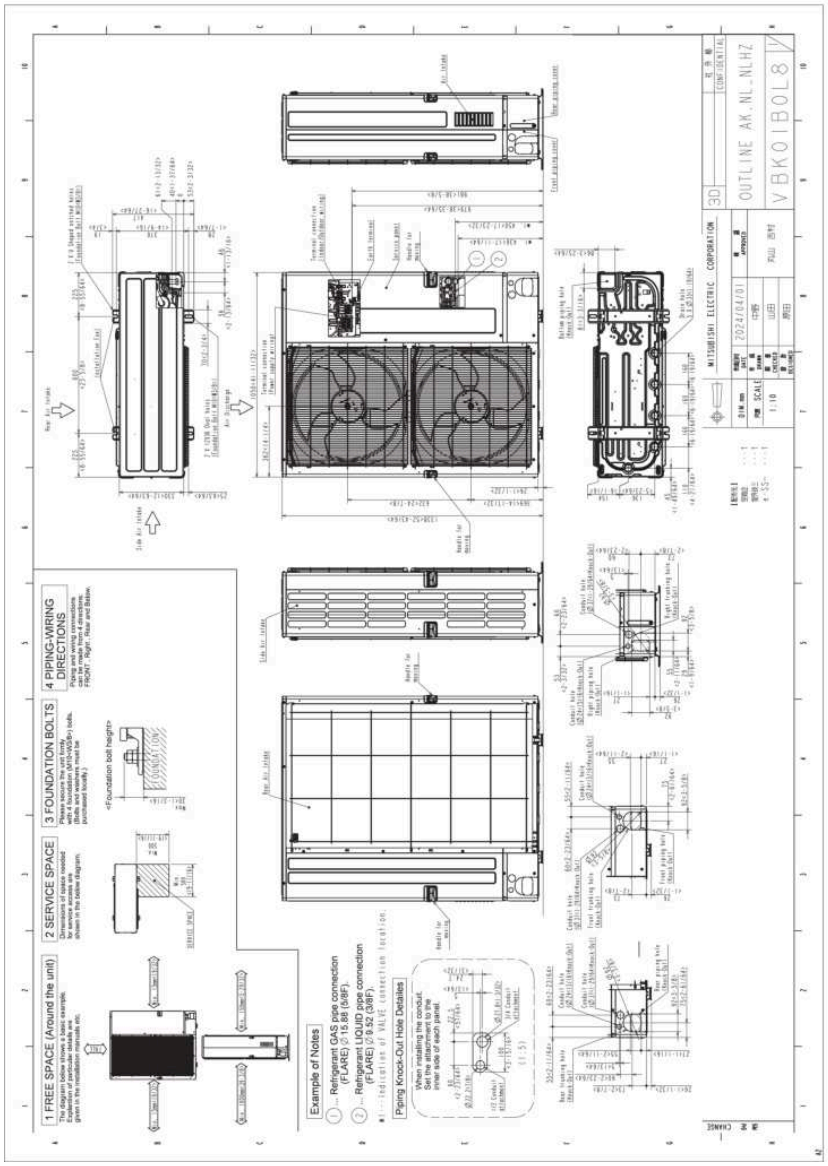
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INDOOR UNIT DIMENSIONS: PLA-AE48NL



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OUTDOOR UNIT DIMENSIONS: PUZ-AK48NLHZ



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