PLA-AE48NL & PUY-AK48NL
48,000 BTU/H CEILING CASSETTE INDOOR UNIT
48,000 BTU/H COOLING ONLY OUTDOOR UNIT

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





INDOOR Unit ... PLA-AE48NL

OUTDOOR Unit ... PUY-AK48NL

INDOOR UNIT FEATURES

- Wi-Fi Optional: A Wireless Interface Adapter can be ordered as an accessory for field installation.
- 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 and 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: Reduces the need for an additional pump to remove condensate. Units with a condensate lift mechanism also include an overflow safety switch.
- 3D i-see Sensor® (Built-in): 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.

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: 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.
- Low Ambient Cooling: Low ambient cooling down to -40°F providing 100% capacity with front, side and rear wind baffle kit
- Low Ambient Cooling: Low ambient cooling down to 0°F providing 100% capacity with front wind baffle kit

Specifications are subject to change without notice.

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SPECIFICATIONS: PLA-AE48NL & PUY-AK48NL

Cooling at 95F[1]	Maximum Capacity	Btu/h	49000
	Rated Capacity	Btu/h	48000
	Minimum Capacity	Btu/h	17000
	Maximum Power Input	W	4800
	Rated Power Input	W	4573
	Moisture Removal	Pints/h	14.60
	Sensible Heat Factor		0.67
	Power Factor [208V / 230V]	%	99 / 99
Efficiency	SEER2		19.40
	EER2[1]		10.40
	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
	Sound Pressure Level [Cooling]	dB (A)	34 , 38 , 42 , 45
	Drain Pipe Size O.D.	inch [mm]	1-1/4 [32]
	Condensate Lift Mechanism, Max Height	inch [mm]	33-1/2 [850]
	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]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 66 , 59
Outdoor Unit	MCA	A	38
	MOCP	A	67
	Fan Motor Output	W	200+200
	Airflow Rate Cooling	CFM	4020
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling[1]	dB (A)	60
	Compressor Type		Twin Rotary
	Compressor Model		MRB53FEJMC-L
	Compressor Oil [Type // Charge]	// oz	RM68EH // 60
	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]	41-11/32 x 13-31/32 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]	265 [120]
	Package Weight	lbs [kg]	291 [132]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	N/A / N/A
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	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Maximum Piping Length	ft [m]	245 [75]

Notes

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Wind baffles required to operate below 23°F DB in cooling mode. • Cooling-only system with advanced wind baffle: -40°F - 115°F. • Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):

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Piping	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

Notes

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[*]Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Wind baffles required to operate below 23°F DB in cooling mode. • Cooling-only system with advanced wind baffle: -40°F - 115°F. • Refer to wind baffle documentation for further information.
[**]Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):

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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	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	☐ X87-711
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
Control Interface	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
Disconnect Switch	30A600VUL 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 - 15 feet	☐ MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	☐ MPLS385812T-100
	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
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 Mount Remote Temperature Sensor	☐ PAC-SE41TS-E
Shutter Plate	Air outlet shutter plate	☐ PAC-SJ37SP-E
Terminal Signal Adapter	Connector and wire for On/Off and Fan command using CN32	☐ PAC-715AD
	Connector and wire for On/Off and Error status using CN51 and CN52	☐ PAC-725AD
	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
Wired Remote Controller	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Deluxe Wired MA Remote Controller	☐ PAR-42MAAUB
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless signal receiver (corner panel) (for PAR-SL101A-E / PAR-FL32MA)	☐ PAR-SR4LU-E
	Wireless Remote Receiver Panel	☐ PAR-SR3LA-E
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Wireless Remote Contoller	☐ PAR-SL101A-E

Notes

[1]Requires MAC-334IF-E Interface to connect MA controller
[1]Unable to use with Wireless Handheld Remote Controller

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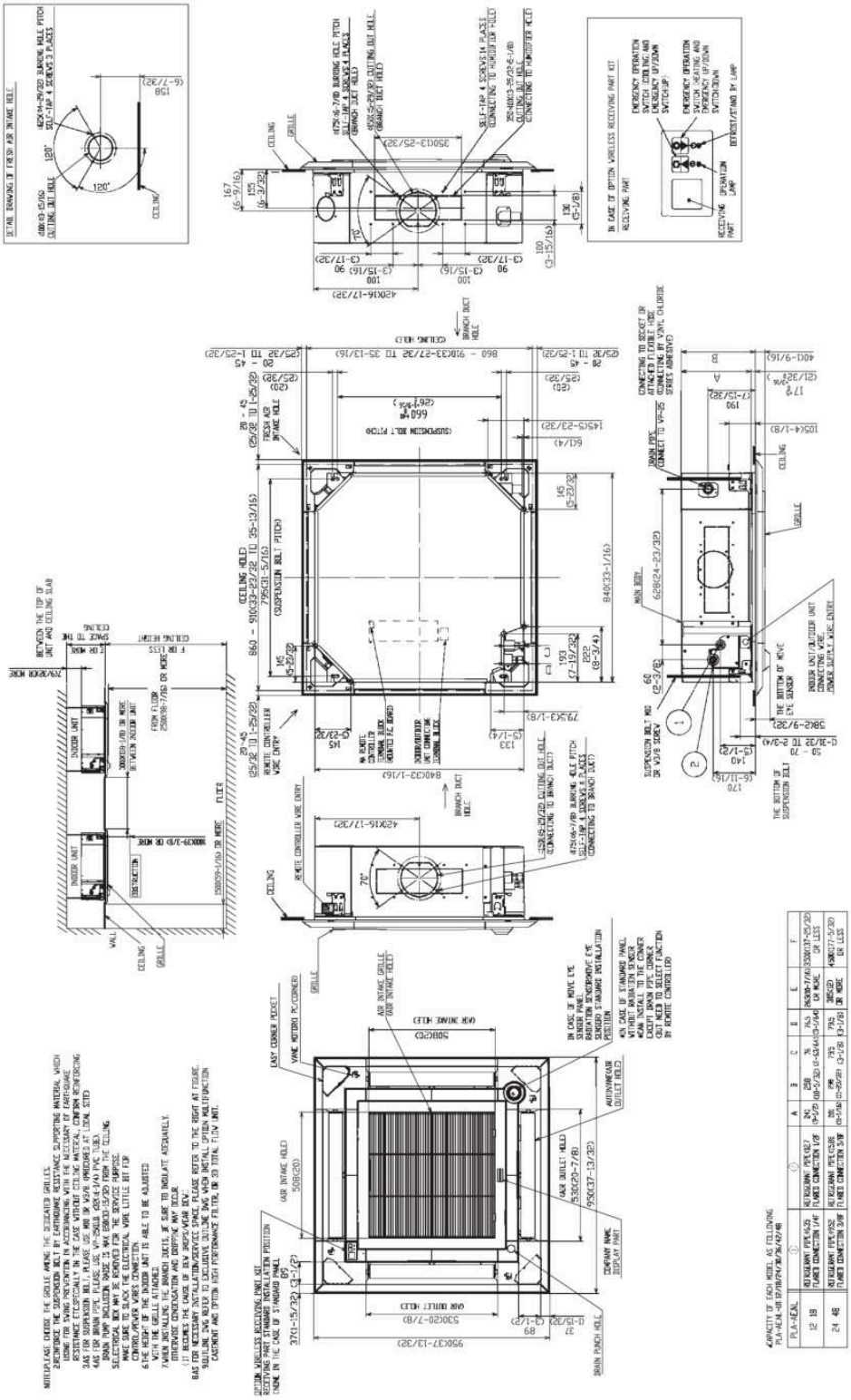
OUTDOOR UNIT ACCESSORIES: PUY-AK48NL

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	M- & P-Series Maintenance Tool Cable Set	☐ M21EC0397
	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
	ControlService Tool	☐ PAC-SK52ST
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 Cable50 ft roll	☐ SW144-50
	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 MiniSplit Cable50 ft roll	☐ S144-50
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	Connector and wire for On/Off and Error status using CN51 and CN52	☐ PAC-725AD
	Connector and wire for On/Off and Fan command using CN32	☐ PAC-715AD
Wind Baffle	Front Wind Baffle	☐ WB-PA3 (two pieces required)
	Rear Wind Baffle	☐ WB-RE6
	Side Advanced Wind Baffle	☐ WB-SD6
Notes		

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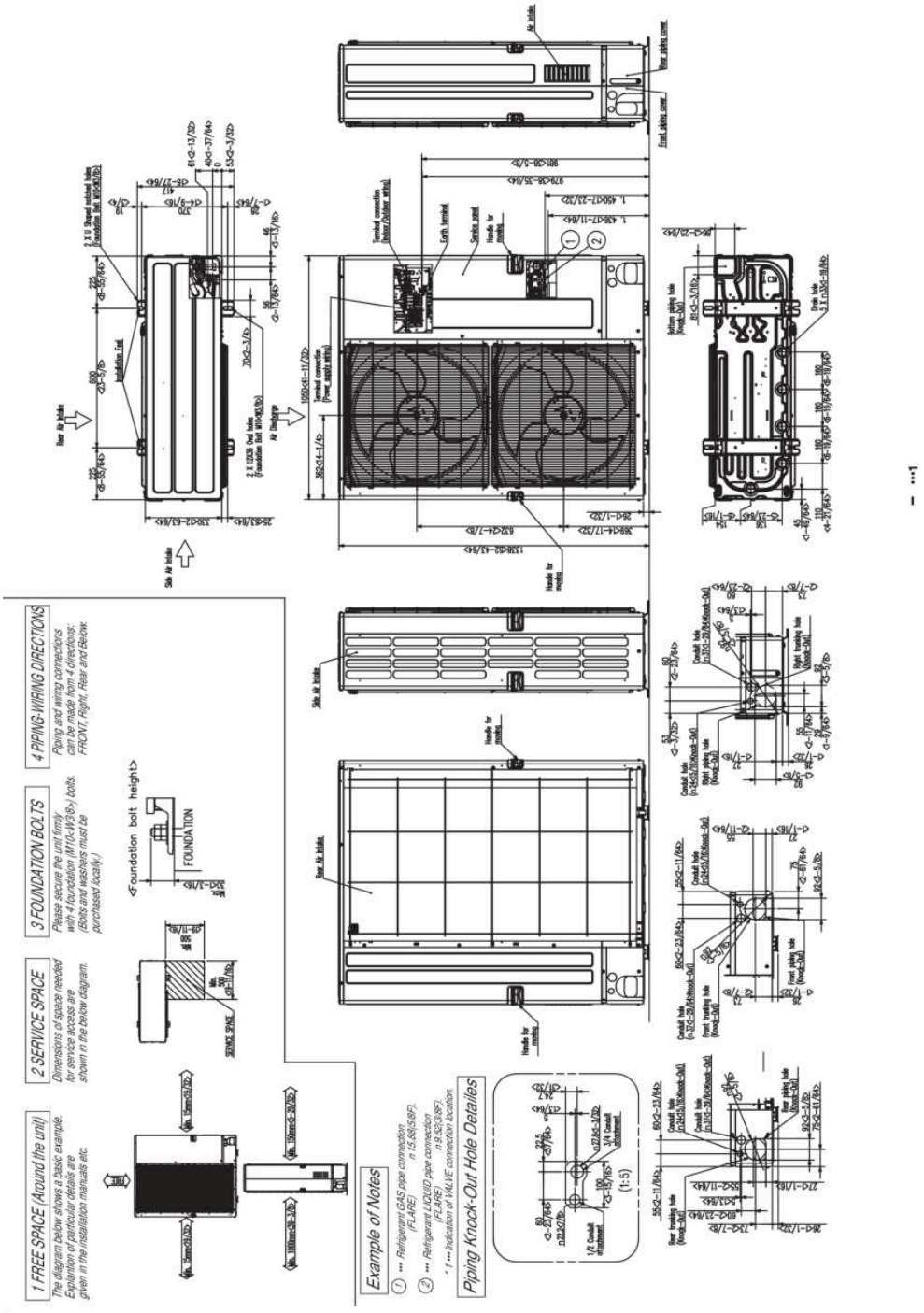
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INDOOR UNIT DIMENSIONS: PLA-AE48NL



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OUTDOOR UNIT DIMENSIONS: PUY-AK48NL



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