

PCA-AK30NL & PUZ-AK30NLHZ  
30,000 BTU/H CEILING-SUSPENDED INDOOR UNIT  
30,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....PCA-AK30NL

Outdoor Unit.....PUZ-AK30NLHZ



#### INDOOR UNIT FEATURES

- Auto fan speed mode: Automatic adjustment of fan speed
- Easy-to-clean, washable filter
- Filter status indicator
- Ideal PCA Spaces: Ideal for larger retail stores, classrooms, and restaurants
- Knock-out for outside-air intake
- Light commercial: Units with this icon are suitable for light commercial applications such as small offices, restaurants, and retail.
- Multi-Airflow settings: Airflow settings for high and low ceiling applications
- Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers
- Suspends from ceiling for quick and easy 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

- Built-in base pan heater
- High Speed Start-up: High speed heating at start up: Hyper-Heating INVERTER® reduces the time for heating at start up by about half compared to standard models
- Hyper-Heating INVERTER®: Variable speed INVERTER-driven compressor
- Pre-charged refrigerant: volume for piping length up to 100 ft
- Pressure/temp protection
- Wide Heating Range: Wide heating range: heating performance down to -13°F (average of 80% heating capacity)

# SPECIFICATIONS: PCA-AK30NL & PUZ-AK30NLHZ

Cooling at 95F <sup>1</sup>	Maximum Capacity	Btu/h	31,000
	Rated Capacity	Btu/h	30,000
	Minimum Capacity	Btu/h	12,300
	Maximum Power Input	W	2,550
	Rated Power Input	W	2,420
	Moisture Removal	Pints/h	8
	Sensible Heat Factor	-	0.71
Heating at 47F <sup>2</sup>	Power Factor [208V / 230V]	%	97 / 97
	Maximum Capacity	Btu/h	35,000
	Rated Capacity	Btu/h	35,000
	Minimum Capacity	Btu/h	11,500
	Maximum Power Input	W	2,710
	Rated Power Input	W	2,772
Heating at 17F <sup>3</sup>	Power Factor [208V / 230V]	%	97 / 97
	Maximum Capacity	Btu/h	32,000
	Rated Capacity	Btu/h	22,400
	Maximum Power Input	W	6,020
Heating at 5F <sup>4</sup>	Rated Power Input	W	2,400
	Maximum Capacity	Btu/h	32,000
Heating at -13F <sup>5</sup>	Maximum Power Input	W	4,700
	Maximum Capacity	Btu/h	21,700
Efficiency	SEER2		21.9
	EER2 <sup>1</sup>		12.3
	HSPF2 [IV]		9.4
	COP at 47°F <sup>2</sup>		3.7
	COP at 17°F at Maximum Capacity <sup>3</sup>		1.5
	COP at 5°F at Maximum Capacity <sup>4</sup>		1.9
	COP at -13°F at Maximum Capacity <sup>5</sup>		1.78
	ENERGY STAR <sup>®</sup> Certified		Yes
Electrical	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
	Voltage: Indoor - Outdoor, S2-S3	V DC	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	30
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	Fan Motor Output	W	160
	Airflow Rate at Cooling, Dry	CFM	530, 565, 600, 670
	Airflow Rate at Cooling, Wet	CFM	565, 600, 635, 705
	Airflow Rate at Heating, Dry	CFM	530, 565, 600, 670
	Sound Pressure Level [Cooling]	dB (A)	35, 37, 39, 41
	Sound Pressure Level [Heating]	dB (A)	35, 37, 39, 41
	External Finish Color		6.4Y 8.9/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	53-3/16 x 29-15/16 x 12-5/8 [1,350 x 760 x 320]
	Unit Weight	lbs [kg]	71 [32]
	Package Weight	lbs [kg]	82 [37]
	Fan Motor Type		DC Motor
	IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB
Heating Intake Air Temp [Maximum / Minimum]		°FDB	83 / 50

## NOTES

<sup>1</sup>Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

<sup>2</sup>Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

<sup>3</sup>Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)

<sup>4</sup>Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

<sup>5</sup>Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F 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.

## SPECIFICATIONS: PCA-AK30NL & PUZ-AK30NLHZ

Outdoor Unit	MCA	A	29
	MOCP	A	48
	Fan Motor Output	W	74
	Airflow Rate Cooling	CFM	3,740
	Airflow Rate Heating	CFM	3,740
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes, Yes
	Sound Pressure Level, Cooling <sup>1</sup>	dB (A)	52
	Sound Pressure Level, Heating <sup>2</sup>	dB (A)	53
	Compressor Type		Twin Rotary
	Compressor Model		MRK36FFGMC
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 45
	External Finish Color		Munsell No.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 [1,050 x 355 x 1,338]
	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 [1,090 x 450 x 1,480]
	Unit Weight	lbs [kg]	231 [105]
Package Weight	lbs [kg]	257.94 [117]	
ODU Operating Temp. Range	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 23
	Heating Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	70, 59 / -13, -13
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-22 / -13
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs, oz	9, 14
	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

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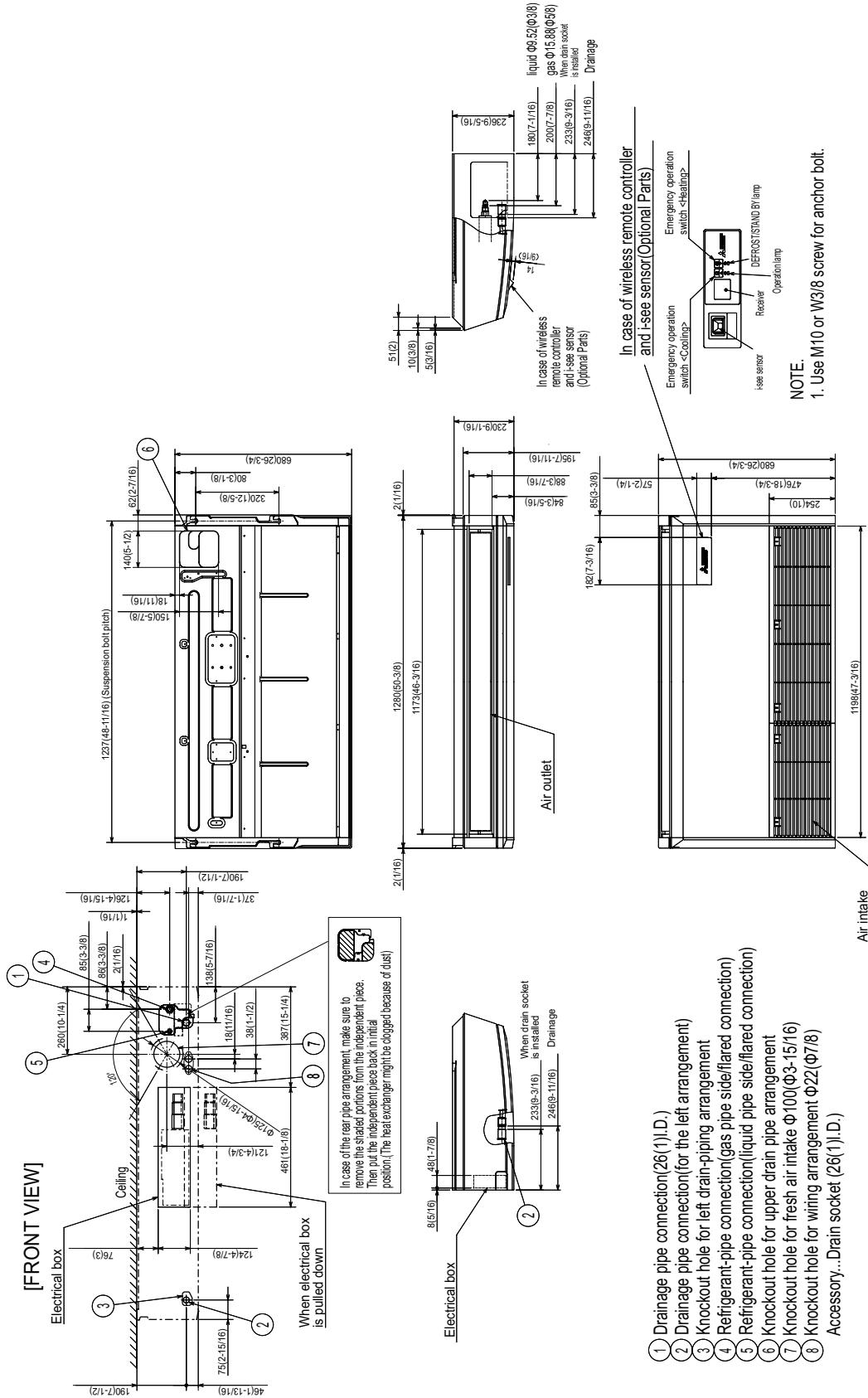
## INDOOR UNIT ACCESSORIES: PCA-AK30NL

Control Interface	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
	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	Operation and Error Status Output Adapter <sup>1</sup>	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
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	RedLINK Wireless Remote Controller	MHK2
	Universal Wireless MA Handheld Remote Controller	PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless Handheld Controller kit with Receiver and i-See Sensor for Ceiling Suspended Models	PAR-SA92MW-E
	Wireless Handheld Controller kit with Receiver for PCA models	PAR-SL93B-E
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Wired Remote Controller	Deluxe Wired MA Remote Controller <sup>1</sup>	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller <sup>1</sup>	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller <sup>1</sup>	PAR-CT01MAU-SB
Condensate	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
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
Lineset	10 x 3/8 x 10 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-10
	100 x 3/8 x 100 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-100
	15 x 3/8 x 15 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-15
	30 x 3/8 x 30 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-30
	50 x 3/8 x 50 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-50
	65 x 3/8 x 65 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-65
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
Power Supplies & Auxiliary Components	3-Pin Wiring Harness	PAC-715AD
	5-Pin Wiring Harness	PAC-725AD
Power Supplies and Auxiliary Components	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
NOTES		
<sup>1</sup> Unable to use with Wireless Remote Controller		

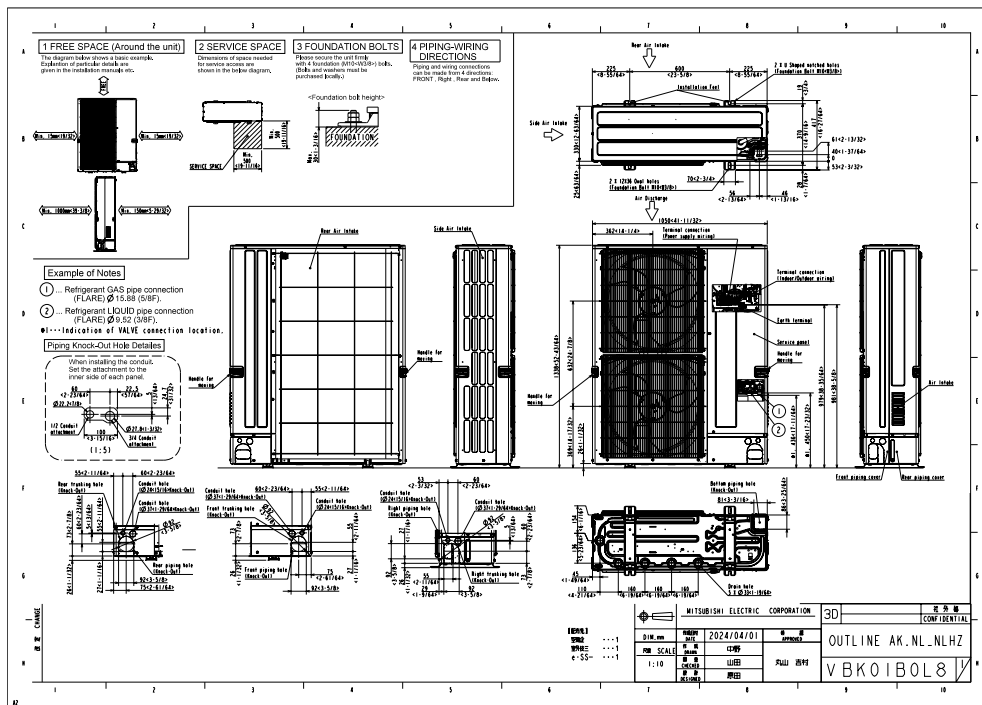
## OUTDOOR UNIT ACCESSORIES: PUZ-AK30NLHZ

Mini-Split Wire	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 Cable250 ft roll	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
Power Supplies & Auxiliary Components	3-Pin Wiring Harness	PAC-715AD
	5-Pin Wiring Harness	PAC-725AD
Hail Guards	Hail Guard	HG-A2
Stand	18 Dual Fan Stand	QSMS1802M
	24 Dual Fan Stand	QSMS2402M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1202M
Centralized Drain Pan	Centralized Drain Pan	PAC-SH97DP-E
Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E (two pieces are required)
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	ULTRILITE2
Drain Socket	Drain Socket	PAC-SG61DS-E
Control/Service Tool	ControlService Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Snow/Rain Diverter	SnowRain Diverter	SRD-5
M-NET Converter	M-Net Interface for P-Series	PAC-SJ95MA-E
Wind Baffle	Front Wind Baffle	WB-PA3 (two pieces are required)
NOTES		

# INDOOR UNIT DIMENSIONS: PCA-AK30NL



# OUTDOOR UNIT DIMENSIONS: PUZ-AK30NLHZ



Model name
PUZ-AK36/42/48NL
PUZ-AK36/42/48NL
PUZ-AK48NL
TPU2A036/1/042/1/048IKALNOA
TPU2A036/1/042/1/048IKALNOA
NTSKS048L121A
PUZ-AK24/30/36/48NLHZ
PUZ-AK24/30/36/48NLHZ
TPU2A024/0/30/1/036/1/042/1/048IKALNOA
NTSKSR024/0/30/0/36/0/48L121A

