

PKA-AK30NL & PUZ-AK30NLHZ
30,000 BTU/H WALL-MOUNTED INDOOR UNIT
30,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....PKA-AK30NL

Outdoor Unit.....PUZ-AK30NLHZ



INDOOR UNIT FEATURES

- Vane settings: Vane setting for air flow direction control
- 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.
- Sleek, compact design
- Single-zone: One outdoor unit connects to one indoor unit to control the comfort in a single space.
- Simple installation
- Light commercial: Units with this icon are suitable for light commercial applications such as small offices, restaurants, and retail.
- Ideal PKA spaces: Ideal for spaces such as server rooms, daycare centers, classrooms, churches, small offices, and more
- Auto fan speed mode: Automatic adjustment of fan speed
- Multiple control options, including the comfort app for remote access, third-party interfaces, and both wired and wireless controllers

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
- Seacoast protection: components are rated for 2,000 hours of durability under ASTM B117 testing standards, ensuring longevity in corrosive coastal environments.
- Wide Heating Range: Wide heating range: heating performance down to -13°F (average of 80% heating capacity)

SPECIFICATIONS: PKA-AK30NL & PUZ-AK30NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	31,000
	Rated Capacity	Btu/h	30,000
	Minimum Capacity	Btu/h	12,600
	Maximum Power Input	W	2,450
	Rated Power Input	W	2,350
	Moisture Removal	Pints/h	8.3
	Sensible Heat Factor	-	0.7
Heating at 47F ²	Power Factor [208V / 230V]	%	98 / 98
	Maximum Capacity	Btu/h	34,000
	Rated Capacity	Btu/h	34,000
	Minimum Capacity	Btu/h	11,500
	Maximum Power Input	W	2,620
	Rated Power Input	W	2,620
	Power Factor [208V / 230V]	%	98 / 98
Heating at 17F ³	Maximum Capacity	Btu/h	32,000
	Rated Capacity	Btu/h	22,000
	Maximum Power Input	W	5,890
	Rated Power Input	W	2,100
Heating at 5F ⁵	Maximum Capacity	Btu/h	32,000
Heating at 5F ⁴	Maximum Power Input	W	4,790
Heating at -13F ⁹	Maximum Capacity	Btu/h	21,400
Efficiency	SEER2		23.2
	EER2 ¹		12.7
	HSPF2 [IV]		9.9
	COP at 47°F ²		3.8
	COP at 17°F at Maximum Capacity ³		1.5
	COP at 5°F at Maximum Capacity ⁴		1.9
	COP at -13°F at Maximum Capacity ⁸		1.8
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC, ø, 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
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Fan Motor Output	W	69
	Airflow Rate at Cooling, Dry	CFM	635, 705, 775
	Airflow Rate at Heating, Dry	CFM	635, 705, 775
	Sound Pressure Level [Cooling]	dB (A)	39, 42, 45
	Sound Pressure Level [Heating]	dB (A)	39, 42, 45
	External Finish Color		0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	46-1/16 x 11-5/8 x 14-3/8 [1,170 x 295 x 365]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	51-3/16 x 14-3/16 x 18-9/16 [1,300 x 360 x 470]
	Unit Weight	lbs [kg]	46 [21]
	Package Weight	lbs [kg]	51 [23]
	Fan Motor Type		DC Motor
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	90, 73 / 66, 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	83 / 50

NOTES

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

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

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

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

⁵Heating 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.

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Outdoor Unit	MCA	A	29
	MOCP	A	48
	Fan Motor Output	W	74+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 ¹	dB (A)	52
	Sound Pressure Level, Heating ²	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]	258 [117]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23
	Heating Intake 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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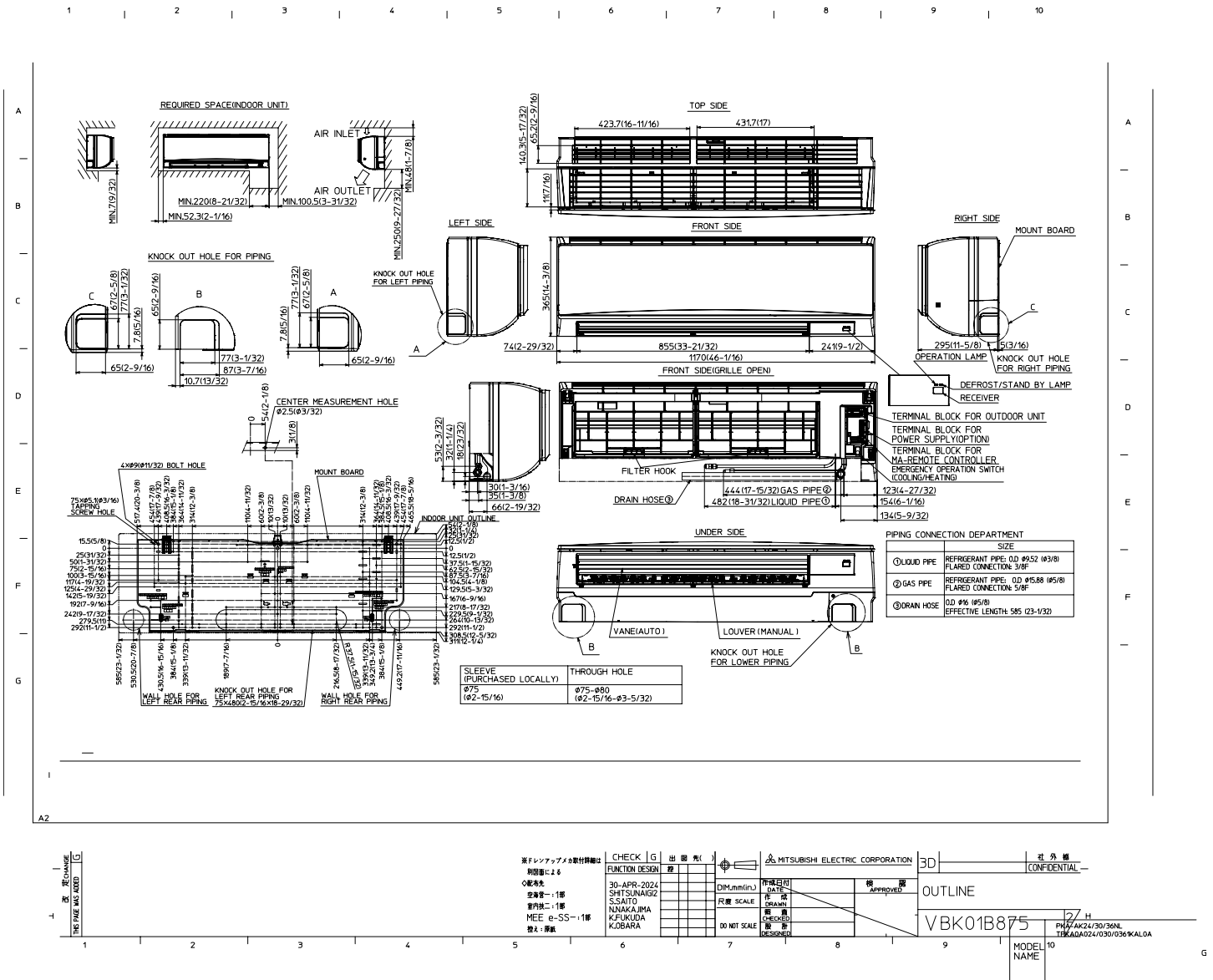
INDOOR UNIT ACCESSORIES: PKA-AK30NL

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
	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
Wired Remote Controller	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller ¹	PAR-CT01MAU-SB
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
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
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC	GOBI-II
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
	Sauermann Condensate Pump	SI30-230
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Lineset	10 x 3/8 x 10 x 5/8 Lineset Twin-Tube Insulation	MPLS385812T-10
	100 x 3/8 x 65 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
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
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
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
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 ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller ¹ Requires MAC-334IF-E Interface to connect MA controller		

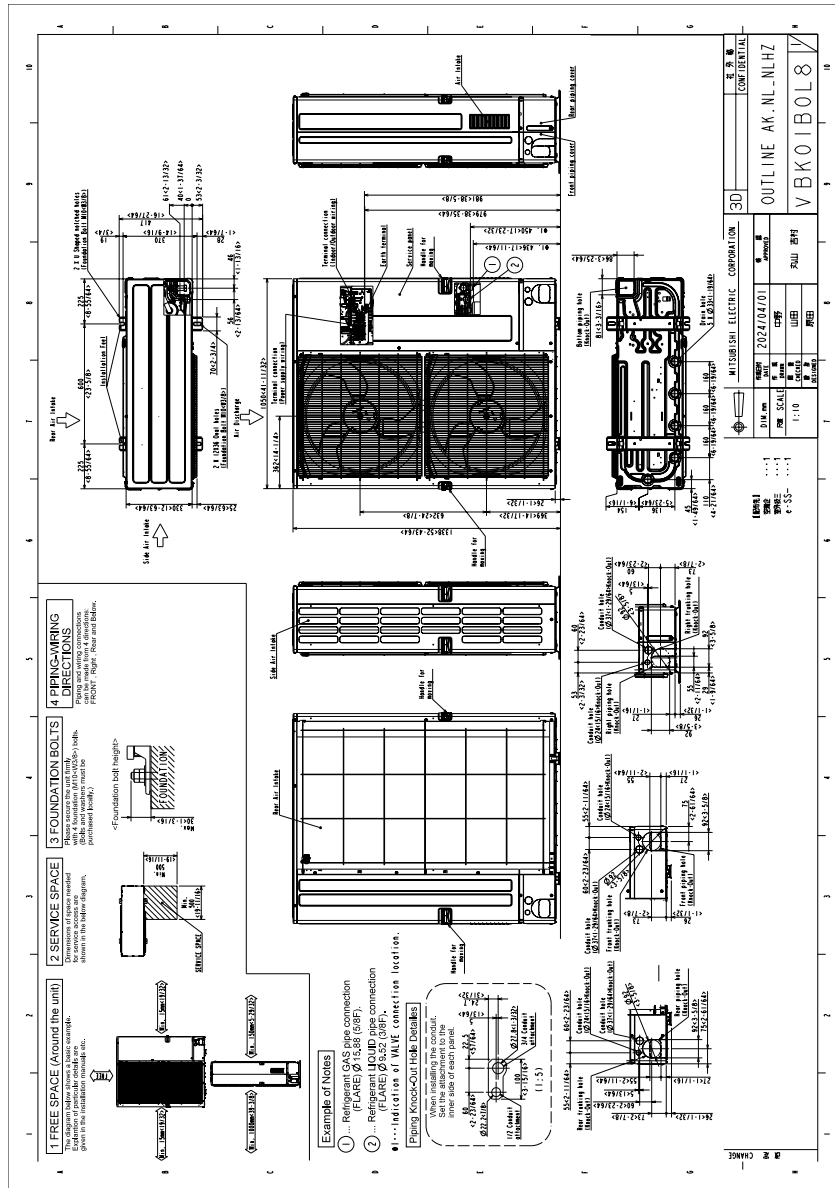
OUTDOOR UNIT ACCESSORIES: PUZ-AK30NLHZ

Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E (two pieces are required)
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
M-NET Converter	M-Net Interface for P-Series	PAC-SJ95MA-E
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
Control/Service Tool	ControlService Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Drain Socket	Drain Socket	PAC-SG61DS-E
Hail Guards	Hail Guard	HG-A2
Power Supplies & Auxiliary Components	3-Pin Wiring Harness	PAC-715AD
	5-Pin Wiring Harness	PAC-725AD
Centralized Drain Pan	Centralized Drain Pan	PAC-SH97DP-E
Wind Baffle	Front Wind Baffle	WB-PA3 (two pieces are required)
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	ULTRILITE2
Snow/Rain Diverter	SnowRain Diverter	SRD-5
NOTES		

INDOOR UNIT DIMENSIONS: PKA-AK30NL



OUTDOOR UNIT DIMENSIONS: PUZ-AK30NLHZ



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