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

- Swing Mode: An indoor unit with this capability can move air throughout the room like an oscillating fan.
- Auto Vane Control: Auto Vane Control allows the indoor unit vanes to be moved left, right, up, and down to provide even temperatures throughout a space.
- 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.
- Three Speed Fan: Adjust the fan between three speed settings to optimal comfort.
- Dual Set Point: The controller can be used to program two different set points. The unit will automatically adjust between the set points for optimum comfort.

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: PKA-AK30NL & PUZ-AK30NLHZ

Cooling at 95F[1]	Maximum Capacity	Btu/h	31000
	Rated Capacity	Btu/h	30000
	Minimum Capacity	Btu/h	12600
	Maximum Power Input	W	2450
	Rated Power Input	W	2350
	Moisture Removal	Pints/h	8.30
	Sensible Heat Factor		0.70
	Power Factor [208V / 230V]	%	98 / 98
Heating at 47F[2]	Maximum Capacity	Btu/h	34000
	Rated Capacity	Btu/h	34000
	Minimum Capacity	Btu/h	11500
	Maximum Power Input	W	2620
	Rated Power Input	W	2620
	Power Factor [208V / 230V]	%	98 / 98
Heating at 17F[3]	Maximum Capacity	Btu/h	32000
	Rated Capacity	Btu/h	22000
	Maximum Power Input	W	5890
	Rated Power Input	W	2100
Heating at 5F[5]	Maximum Capacity	Btu/h	32000
	Maximum Power Input	W	4790
Heating at -13F[9]	Maximum Capacity	Btu/h	21400
Efficiency	SEER2		23.20
	EER2[1]		12.70
	HSPF2 [IV]		9.90
	COP at 47°F[2]		3.80
	COP at 17°F at Maximum Capacity[3]		1.50
	COP at 5°F at Maximum Capacity[5]		1.90
	COP at -13°F at Maximum Capacity[9]		1.80
	ENERGY STAR® Certified		Yes
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	30
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	Fan Motor Output	W	69
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	635 , 705 , 775
	Airflow Rate at Cooling, Wet	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 Static Pressure	in.WG	
	Dual Barrier Coating on Fan		No
	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 [1170 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 [1300 x 360 x 470]
	Unit Weight	lbs [kg]	46 [21]
	Package Weight	lbs [kg]	51 [23]
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	83 / 50
Outdoor Unit	MCA	A	29
	MOCP	A	48
	Fan Motor Full Load Amperage	A	

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	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3740
	Airflow Rate Heating	CFM	3740
	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]	// 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 [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]	231 [105]
	Package Weight	lbs [kg]	258 [117]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures**	F	
	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	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

Notes

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INDOOR UNIT ACCESSORIES: PKA-AK30NL

Condensate	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	X88-721
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	SI30-230
	Drain Pan Level Sensor/Control	SS610E
	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
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	GOBI-II
	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
	IT Extender	PAC-WHS01IE-E
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
	(30A/600V/UL) [fits 2” X 4” utility box] - White	TAZ-MS303W
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Lineset	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
	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 - 30 feet	MPLS385812T-30
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
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
Terminal Signal Adapter	5-Pin Wiring Harness	PAC-725AD
	3-Pin Wiring Harness	PAC-715AD
	Backup Heat Relay Kit	CN24RELAY-KIT-CM3
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 MA Handheld Remote Controller (requires PAR-FA32MA-E)	PAR-FL32MA-E
	Wireless Remote Contoller	PAR-SL101A-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	Wireless RedLINK™ Remote Controller	MHK2
Notes		

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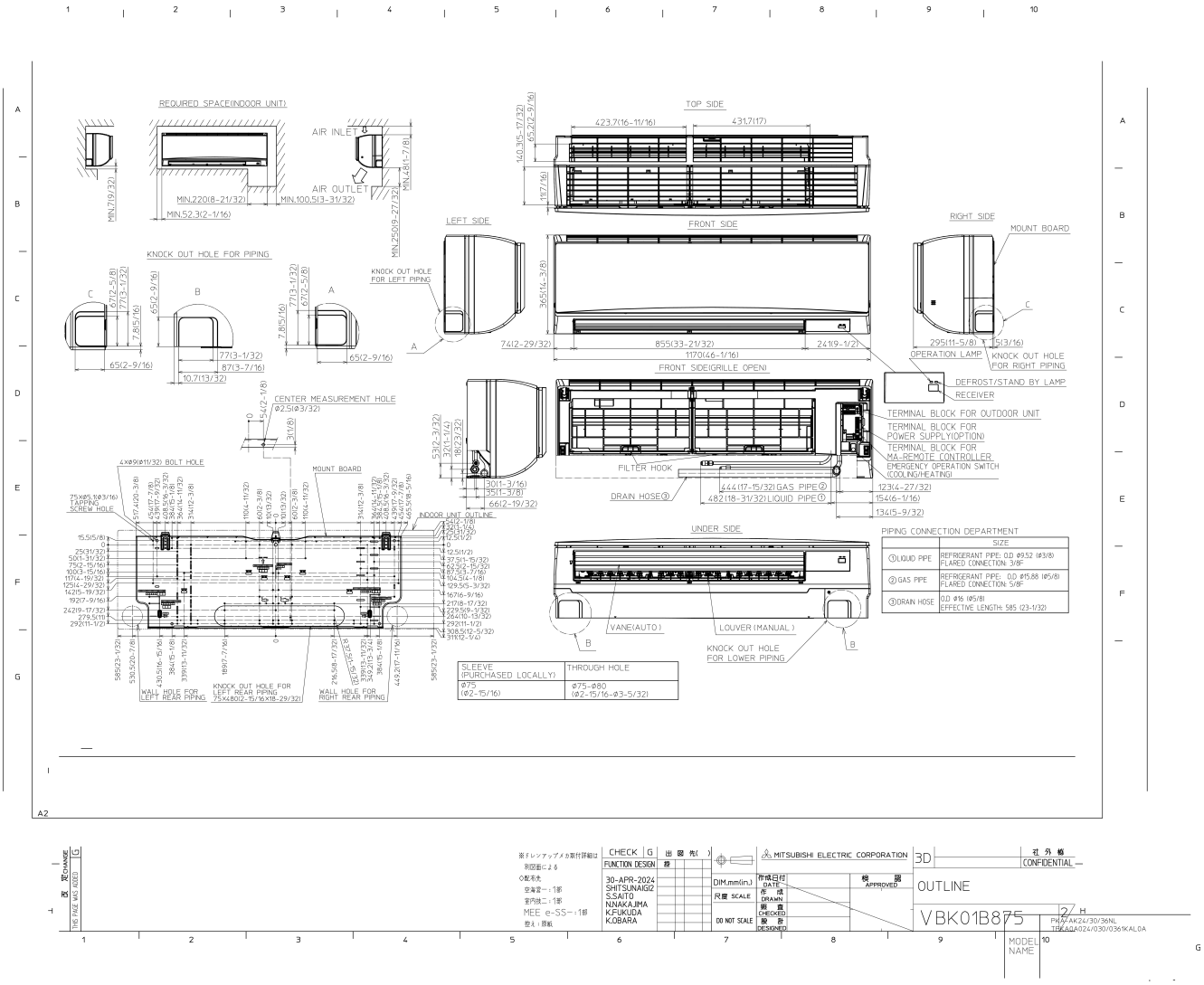
OUTDOOR UNIT ACCESSORIES: PUZ-AK30NLHZ

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
	ControlService Tool	☐ PAC-SK52ST
	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
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 Armored MiniSplit Cable50 ft roll	☐ SW144-50
	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	18 Dual Fan Stand	☐ QSMS1802M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐ DSD-400P
	Outdoor Unit Stand 12 High	☐ QSMS1202M
	24 Dual Fan Stand	☐ QSMS2402M
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)
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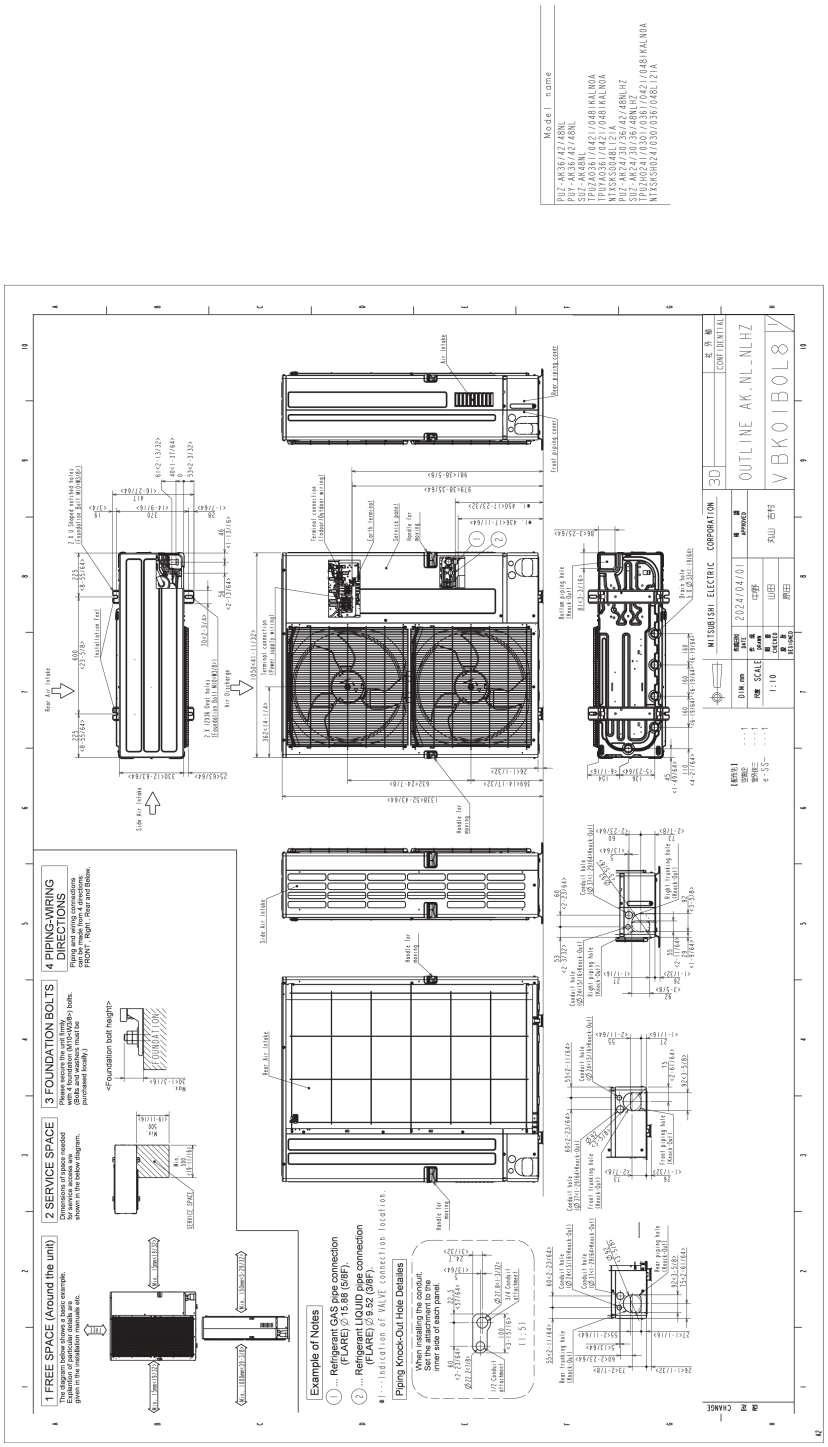
INDOOR UNIT DIMENSIONS: PKA-AK30NL



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OUTDOOR UNIT DIMENSIONS: PUZ-AK30NLHZ



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