

PKA-AK24NL & PUZ-AK24NLHZ
24,000 BTU/H WALL-MOUNTED INDOOR UNIT
18,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PKA-AK24NL

OUTDOOR Unit ... PUZ-AK24NLHZ

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.

SPECIFICATIONS: PKA-AK24NL & PUZ-AK24NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	25000
	Rated Capacity	Btu/h	24000
	Minimum Capacity	Btu/h	13600
	Maximum Power Input	W	1730
	Rated Power Input	W	1650
	Moisture Removal	Pints/h	7.8
	Sensible Heat Factor		0.65
Heating at 47F ²	Power Factor [208V / 230V]	%	96 / 96
	Maximum Capacity	Btu/h	28000
	Rated Capacity	Btu/h	28000
	Minimum Capacity	Btu/h	12800
	Maximum Power Input	W	1908
	Rated Power Input	W	1908
Heating at 17F ³	Power Factor [208V / 230V]	%	97 / 97
	Maximum Capacity	Btu/h	26000
	Rated Capacity	Btu/h	17000
	Maximum Power Input	W	4340
Heating at 5F ⁵	Rated Power Input	W	1800
	Maximum Capacity	Btu/h	26000
Heating at 5F ⁵	Maximum Power Input	W	3940
Heating at -13F ⁹	Maximum Capacity	Btu/h	18500
Efficiency	SEER2		21.80
	EER2 ¹		14.50
	HSPF2 [IV]		9.40
	COP at 47°F ²		4.30
	COP at 17°F at Maximum Capacity ³		1.70
	COP at 5°F at Maximum Capacity ⁵		1.90
	COP at -13°F at Maximum Capacity ⁹		1.88
Electrical	ENERGY STAR® Certified		Yes
	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	25
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	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
		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	24
	MOCP	A	39
	Fan Motor Full Load Amperage	A	

Notes

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

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

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

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

⁹Heating 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 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]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	231 [105]
	Package Weight	lbs [kg]	258 [117]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures**	F	
Refrigerant	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	70 , 59 / -13 , -13
	Heating Thermal Lock-out / Re-start Temperatures**	F	-22 / -13
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	9 , 14
Piping	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
Piping	Maximum Piping Length	ft [m]	165 [50]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

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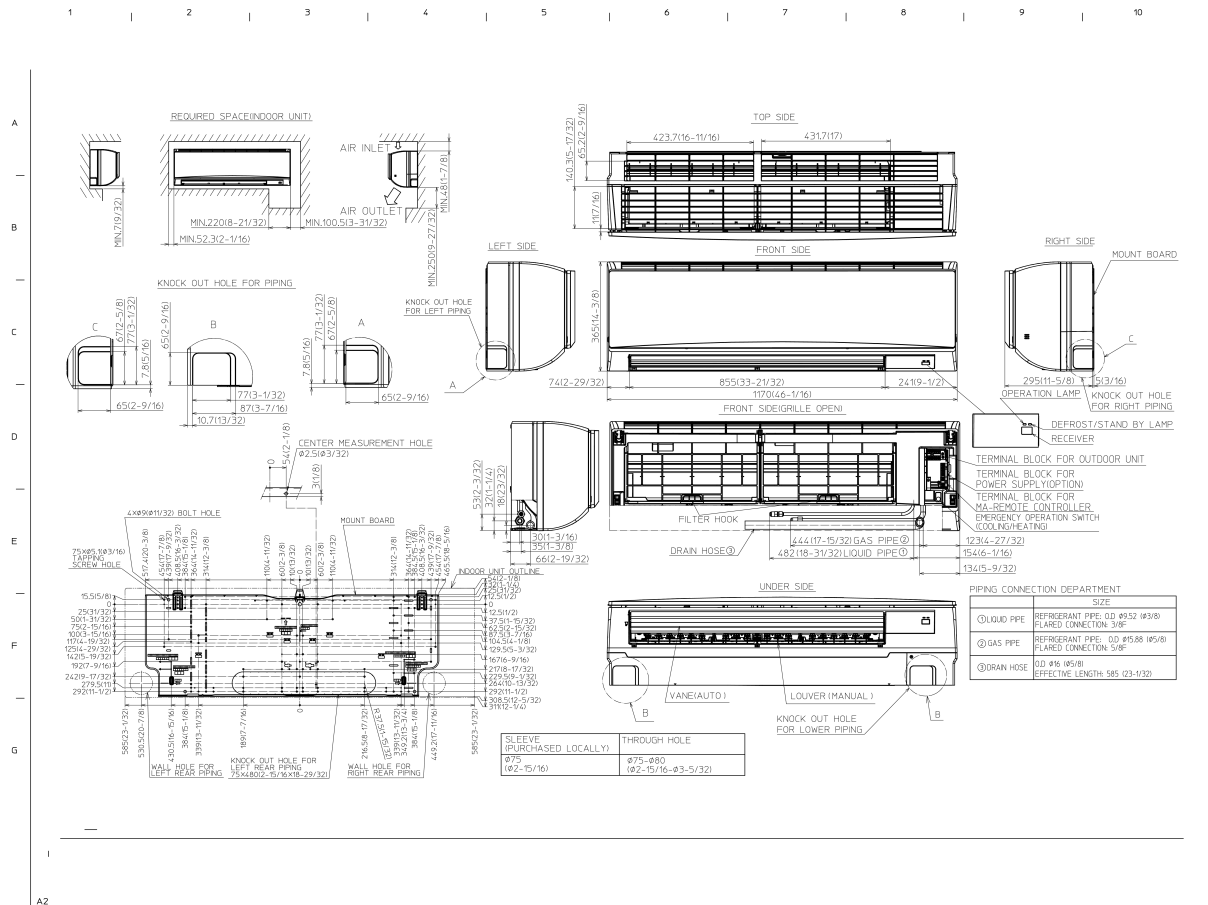
INDOOR UNIT ACCESSORIES: PKA-AK24NL

Condensate	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐	SI30-230
	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 MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐	X88-721
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐	X87-835
	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
Control Interface	Airzone Wireless Think Controller Black	☐	AZZBSTHINKRN
	IT Extender	☐	PAC-WHS01IE-E
	Airzone Wireless Lite Controller Black	☐	AZZBSLITERN
	Thermostat Interface for 3rd Party Thermostats	☐	PAC-US445CN-1
	Airzone Wireless Think Controller White	☐	AZZBSTHINKRB
	Airzone Wired Blueface Controller Black	☐	AZZBSBLUEZEROCN
	Procon BACnet® and Modbus® Interface	☐	PAC-UKPRC001-CN-1
	kumo station® for Comfort app	☐	PAC-WHS01HC-E
	Airzone Wired Blueface Controller White	☐	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller White	☐	AZZBSLITERB
	Wireless Interface 2 for Comfrot app	☐	PAC-USWHS002-WF-2
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 - 50 feet	☐	MPLS385812T-50
	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
	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 - 65 feet	☐	MPLS385812T-65
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	Wireless temperature and humidity sensor for Comfort app	☐	PAC-USWHS003-TH-1
	Wall Mounted Remote Temperature Sensor	☐	PAC-SE41TS-E
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐	PAC-USSEN002-FM-1
Terminal Signal Adapter	Backup Heat Relay Kit	☐	CN24RELAY-KIT-CM3
	3-Pin Wiring Harness	☐	PAC-715AD
	5-Pin Wiring Harness	☐	PAC-725AD
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 MA Wired Remote Controller	☐	PAR-42MAAUB
Wireless Remote Controller	Wireless Remote Controller	☐	PAR-SL101A-E
	Wireless RedLINK™ Remote Controller	☐	MHK2
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐	PAR-FL32MA-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐	RCMKP1CB
Notes			

OUTDOOR UNIT ACCESSORIES: PUZ-AK24NLHZ

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	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	ControlService Tool	☐	PAC-SK52ST
	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 MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
	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			

INDOOR UNIT DIMENSIONS: PKA-AK24NL

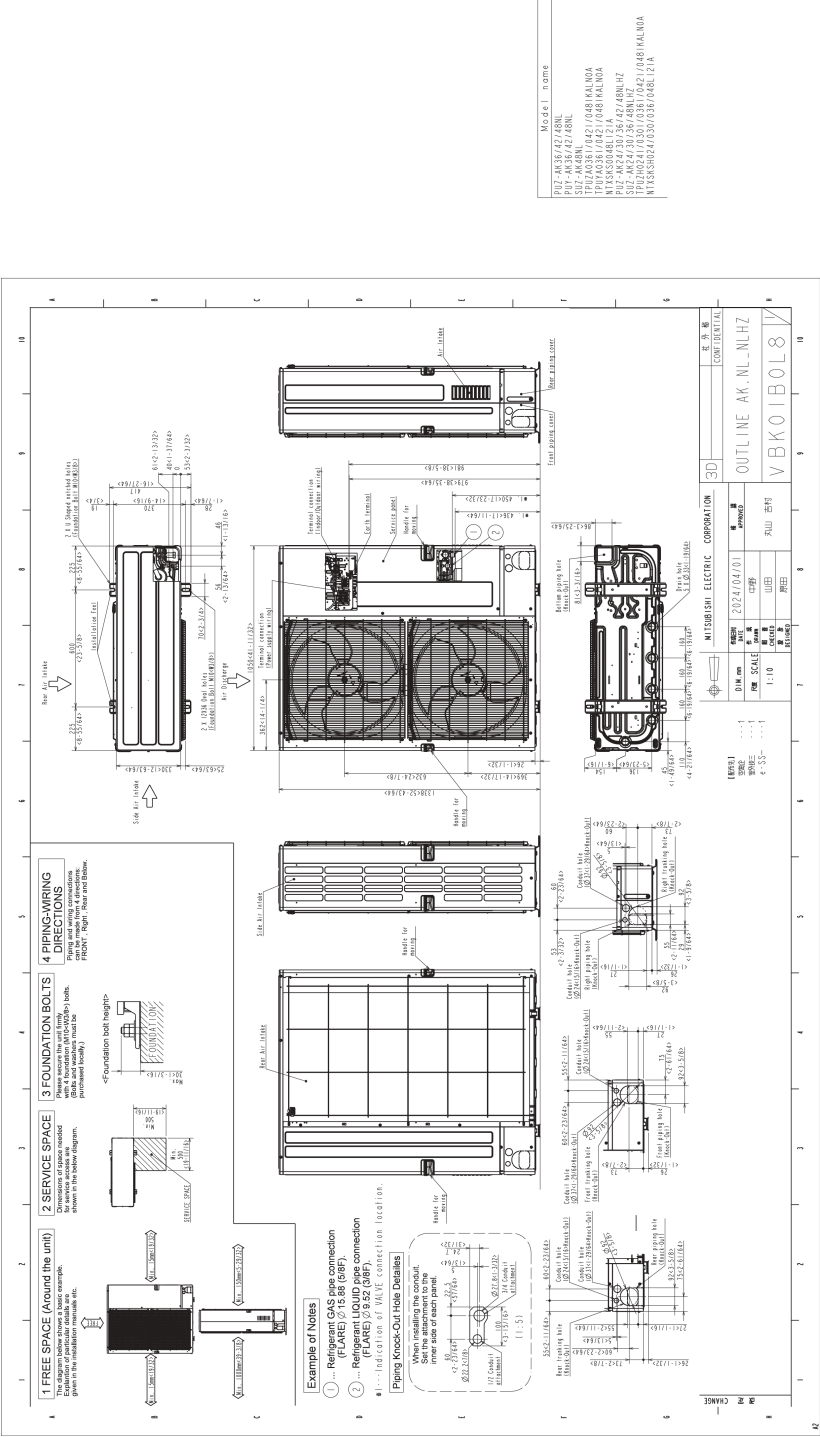


PIPING CONNECTION DEPARTMENT	
	SIZE
① LIQUID PIPE	REFRIGERANT PIPE: O.D. #9.52 (#3/8) FLARED CONNECTION: 3/8"
② GAS PIPE	REFRIGERANT PIPE: O.D. #15.88 (#5/8) FLARED CONNECTION: 5/8"
③ DRAIN HOSE	O.D. #16 (#5/8) EFFECTIVE LENGTH: 585 (23-1/32)

SLEEVE (PURCHASED LOCALLY)	THROUGH HOLE
ø75 (ø2-15/16)	ø75-ø80 (ø2-15/16-ø3-5/32)

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OUTDOOR UNIT DIMENSIONS: PUZ-AK24NLHZ



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 · mitsubishicomfort.com

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