

PKA-AK24NL & PUZ-AH24NL
24,000 BTU/H WALL-MOUNTED INDOOR UNIT
23,600 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PKA-AK24NL
OUTDOOR Unit ... PUZ-AH24NL

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

- **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:** Designed to protect against the corrosive effects of environments that are in close proximity to the sea.

SPECIFICATIONS: PKA-AK24NL & PUZ-AH24NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	24500
	Rated Capacity	Btu/h	24000
	Minimum Capacity	Btu/h	10100
	Maximum Power Input	W	2050
	Rated Power Input	W	1990
	Moisture Removal	Pints/h	6.20
	Sensible Heat Factor		0.72
	Power Factor [208V / 230V]	%	97 / 97
Heating at 47F ²	Maximum Capacity	Btu/h	31000
	Rated Capacity	Btu/h	28000
	Minimum Capacity	Btu/h	8300
	Maximum Power Input	W	2770
	Rated Power Input	W	2414
	Power Factor [208V / 230V]	%	98 / 98
Heating at 17F ³	Maximum Capacity	Btu/h	15300
	Rated Capacity	Btu/h	15300
	Maximum Power Input	W	1600
	Rated Power Input	W	1600
Heating at 5F ⁵	Maximum Capacity	Btu/h	11600
	Maximum Power Input	W	1620
Heating at -4F ⁶	Maximum Capacity	Btu/h	10400
Efficiency	SEER2		21.1
	EER2 ¹		12
	HSPF2 [IV]		9.20
	COP at 47°F ²		3.40
	COP at 17°F at Maximum Capacity ³		2.80
	COP at 5°F at Maximum Capacity ⁵		2
	COP at -4°F at Maximum Capacity ⁶		1.96
	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	25
	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	82 / 50
Outdoor Unit	MCA	A	22
	MOCP	A	37
	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

*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.

⁶Heating at -4°F (Indoor // Outdoor) °F 70 DB, 60 WB // -4 DB, -5 WB

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Outdoor Unit	Fan Motor Output	W	7
	Airflow Rate Cooling	CFM	1940
	Airflow Rate Heating	CFM	1940
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	49
	Sound Pressure Level, Heating ²	dB (A)	52
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMC-L1
	Compressor Oil [Type // Charge]	// oz	RM68EH // 23
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37-13/32 x 14 x 37-1/8 [950 x 355 x 943]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-15/16 x 17-3/4 x 42-1/2 [1065 x 450 x 1079]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	155 [70]
	Package Weight	lbs [kg]	179 [81]
	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 / -4 , -4
Refrigerant	Heating Thermal Lock-out / Re-start Temperatures**	F	-13 / -4
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	7 , 11
	Maximum Pre-Charged Piping Length	ft [m]	165 [50]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0
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]	165 [50]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

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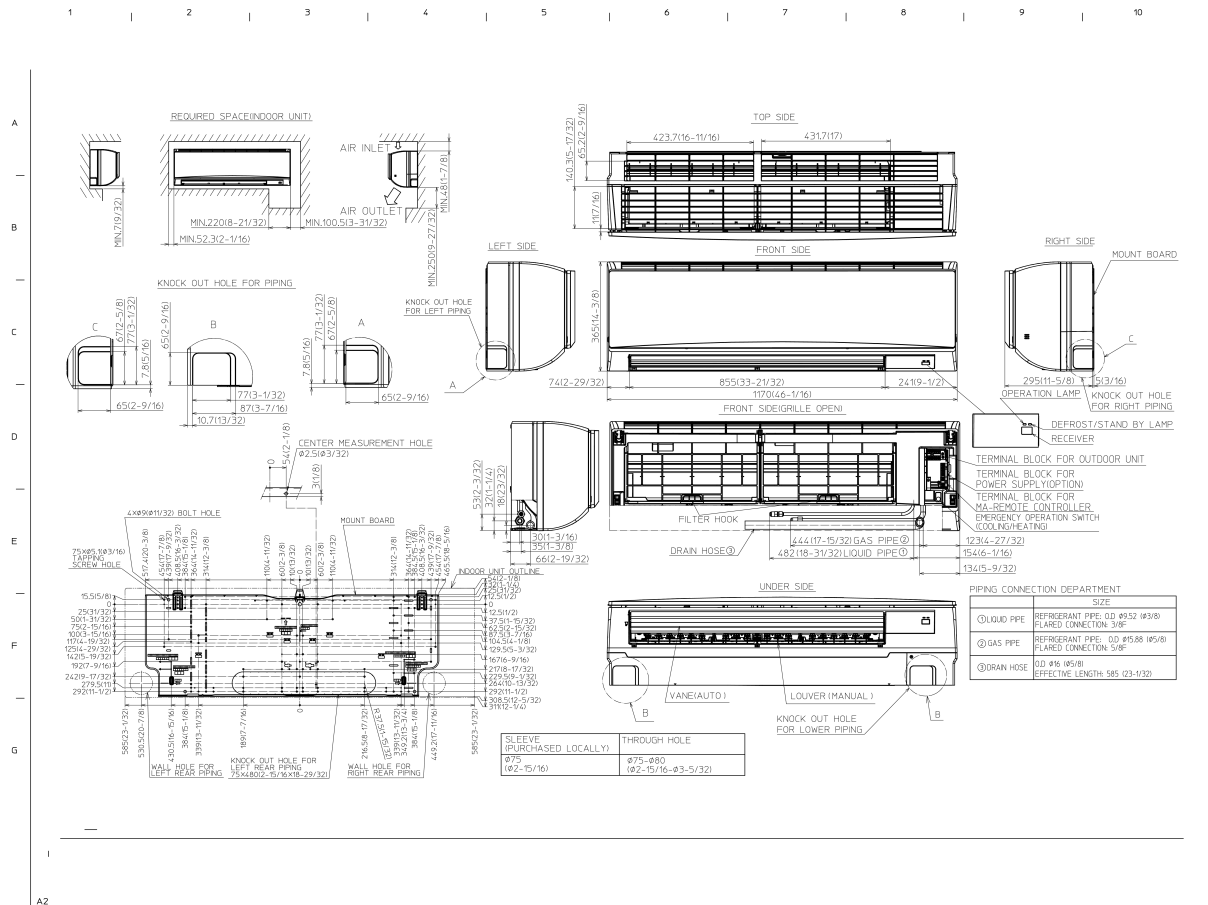
INDOOR UNIT ACCESSORIES: PKA-AK24NL

Condensate	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	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
Control Interface	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	IT Extender	☐ PAC-WHS01IE-E
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	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 - 65 feet	☐ MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	☐ MPLS385812T-10
	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 - 50 feet	☐ MPLS385812T-50
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
	5-Pin Wiring Harness	☐ PAC-725AD
	3-Pin Wiring Harness	☐ PAC-715AD
Wired Remote Controller	Deluxe MA Wired Remote Controller	☐ PAR-42MAAUB
	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
Wireless Remote Controller	Wireless RedLINK™ Remote Controller	☐ MHK2
	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
Notes		

OUTDOOR UNIT ACCESSORIES: PUZ-AH24NL

Air Outlet Guide	Air Outlet Guide 1 Piece	☐	PAC-SG59SG-E
Centralized Drain Pan	Centralized Drain Pan	☐	PAC-SG64DP-E
Control/Service Tool	ControlService Tool	☐	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	PAC-SG61DS-E
Hail Guards	Hail Guard	☐	HG-A6
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 Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	☐	ULTRILITE2
Optional Defrost Heater	Optional Defrost Heater	☐	PAC-SK62BH-E
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-4
Stand	24 Single Fan Stand	☐	QSMS2401M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Condenser Wall Bracket	☐	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	18 Single Fan Stand	☐	QSMS1801M
Terminal Signal Adapter	5-Pin Wiring Harness	☐	PAC-725AD
	3-Pin Wiring Harness	☐	PAC-715AD
Wind Baffle	Front Wind Baffle	☐	WB-PA5
	Rear Wind Baffle	☐	WB-RE5
	Side Advanced Wind Baffle	☐	WB-SD5
Notes			

INDOOR UNIT DIMENSIONS: PKA-AK24NL

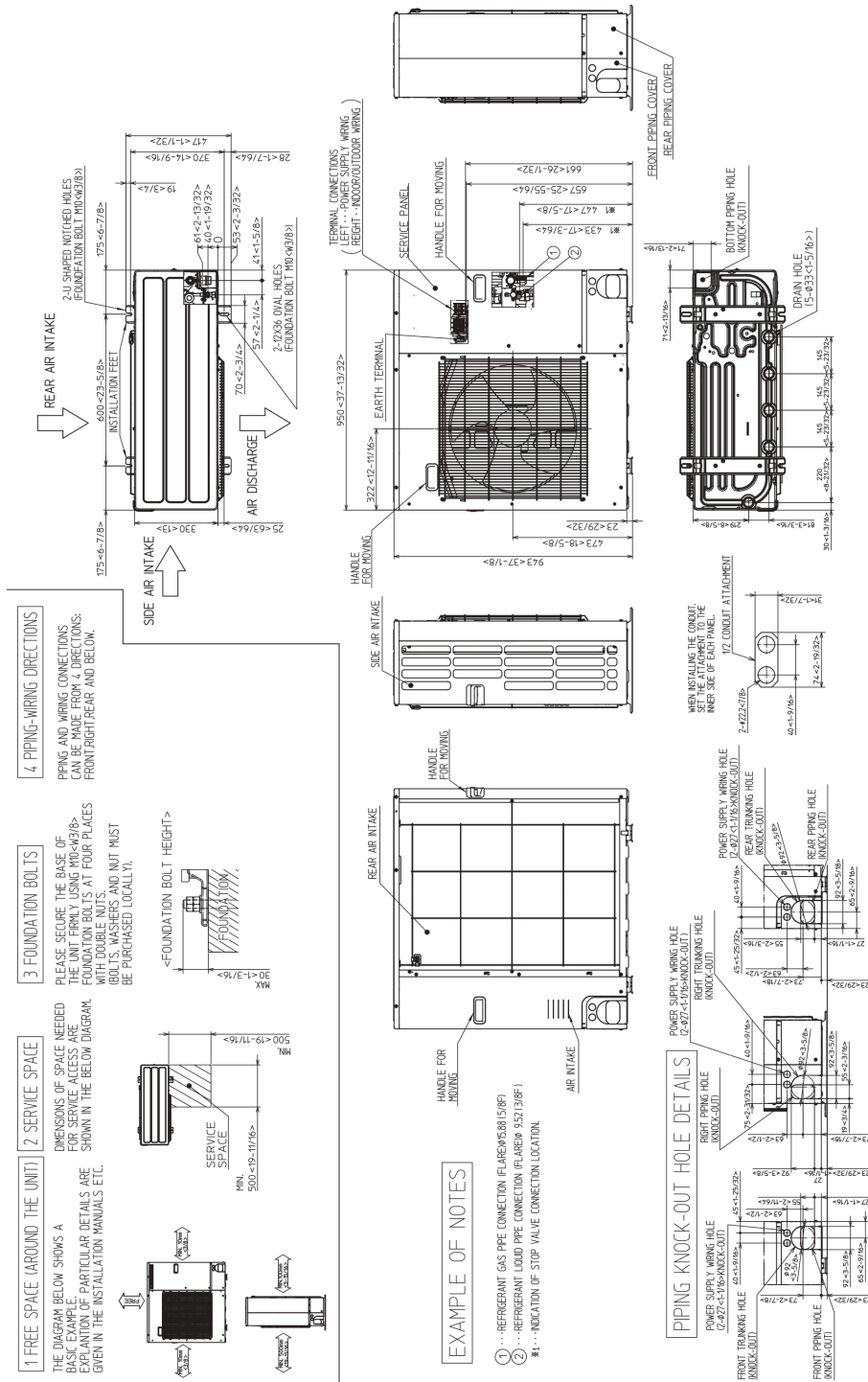


PIPING CONNECTION DEPARTMENT	
	SIZE
① LIQUID PIPE	REFRIGERANT PIPE: O.D. #9.52 (#3/8) FLARED CONNECTION: 3/8"
② GAS PIPE	REFRIGERANT PIPE: O.D. #15.88 (#5/8) FLARED CONNECTION: 5/8"
③ DRAIN HOSE	O.D. #16 (#5/8) EFFECTIVE LENGTH: 585 (23-1/32)

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

[illegible]

OUTDOOR UNIT DIMENSIONS: PUZ-AH24NL



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