PAA-AA24NL & SUZ-AK24NLHZ
24,000 BTU/H CASED COIL INDOOR UNIT
23,800 BTU/H HYPER HEAT PUMP OUTDOOR UNIT

Job Name:			
System Reference:		**Date:**	

INDOOR Unit ... PAA-AA24NL

OUTDOOR Unit ... SUZ-AK24NLHZ

INDOOR UNIT FEATURES

- Wi-Fi Optional: A Wireless Interface Adapter can be ordered as an accessory for field installation.
- Intelligent Switchover: Intelligent Switchover from electric heat pump to gas furnace operation in extreme cold for consistent comfort. The system can also be set to switch based optimal energy efficiency and to reduce your carbon footprint.
- High Quality Drain Pan: High quality drain pan material with high heat tolerance and low moisture absorption
- Multi-Position Installation: Versatile installation options, including horizontal (left or right) and vertical (up or down) orientations, with included drain pans to facilitate easy setup for any configuration.
- Available Widths: Available in 14.5”, 17.5”, and 21” widths
- Furnace Compatible: "Compatible with most gas furnaces, intelli-HEAT® allows for Intelligent Switchover between the furnace and heat pump operation. * *Mitsubishi Electric air-conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces"

OUTDOOR UNIT FEATURES

- H2i® Hyper-Heating: 100% heating capacity down to 5° 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: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- 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: PAA-AA24NL & SUZ-AK24NLHZ

Cooling at 95F[1]	Maximum Capacity	Btu/h	25000
	Rated Capacity	Btu/h	24000
	Minimum Capacity	Btu/h	14100
	Maximum Power Input	W	2070
	Rated Power Input	W	1980
	Moisture Removal	Pints/h	6
	Sensible Heat Factor		0.74
	Power Factor [208V / 230V]	%	87 / 87
Heating at 47F[2]	Maximum Capacity	Btu/h	27800
	Rated Capacity	Btu/h	27800
	Minimum Capacity	Btu/h	12700
	Maximum Power Input	W	2250
	Rated Power Input	W	2250
	Power Factor [208V / 230V]	%	86 / 86
Heating at 17F[3]	Maximum Capacity	Btu/h	26000
	Rated Capacity	Btu/h	20800
	Maximum Power Input	W	3850
	Rated Power Input	W	2540
Heating at 5F[5]	Maximum Capacity	Btu/h	26000
	Maximum Power Input	W	3630
Heating at -13F[9]	Maximum Capacity	Btu/h	18600
Efficiency	SEER2		16.20
	EER2[1]		12.10
	HSPF2 [IV]		8.90
	COP at 47°F[2]		3.6
	COP at 17°F at Maximum Capacity[3]		1.90
	COP at 5°F at Maximum Capacity[5]		2.10
	COP at -13°F at Maximum Capacity[9]		1.90
	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	MCA	A	0.2
	Breaker Size	A	15
	Rated Airflow, Dry	CFM	700
	Maximum Airflow, Dry	CFM	830
	Minimum Airflow, Dry	CFM	551
	Internal Static Pressure [at Rated CFM]	in.WG	0.2
	Drain Pipe Size O.D.	inch [mm]	3/4 [19.05]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	14-1/2 x 21-7/16 x 27-1/2 [368 x 543 x 697]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	17-7/16 x 25-5/16 x 33 [443 x 695 x 838]
	Unit Weight [Cased Coil Only]	lbs [kg]	59.5 [27.0]
	Control Box Weight	lbs [kg]	5.1 [2.3]
	Package Weight	lbs [kg]	82.7 [37.5]
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
Outdoor Unit	MCA	A	24
	MOCP	A	39
	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3740
	Airflow Rate Heating	CFM	3740

Notes

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[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
[4]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB. Not AHRI rated
[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]): • Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
[**]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	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*]	°FDB	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 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	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

Notes

[1]Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB
[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
[4]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB. Not AHRI rated
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INDOOR UNIT ACCESSORIES: PAA-AA24NL

Condensate	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	X87-835
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	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
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
Control Interface	kumo station® for Comfort app	PAC-WHS01HC-E
	Operation and Error Status Output Adapter ¹	PAC-SF40RM-E
	IT Extender	PAC-WHS01IE-E
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Thermostat Interface	PAC-US446CN-1
Disconnect Switch	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
Lineset	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 - 100 feet	MPLS385812T-100
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	MPLS385812T-30
Remote Sensor	Wall Mount 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	Backup Heat Relay Kit	CN24RELAY-KIT-CM3
	Connector and wire for On/Off and Error status using CN51 and CN52	PAC-725AD
	Connector and wire for On/Off and Fan command using CN32	PAC-715AD
	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	PAC-740
Wired Remote Controller	Deluxe Wired MA Remote Controller	PAR-42MAAUB
	Simple MA Remote Controller	PAC-YT53CRAU-J
	Touch MA Remote Controller	PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
Wireless Remote Controller	Wireless RedLINK™ Remote Controller	MHK2
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless Remote Contoller	PAR-SL101A-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-E

Notes

[1]Requires MAC-334IF-E Interface to connect MA controller
[1]Unable to use with Wireless Handheld Remote Controller

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OUTDOOR UNIT ACCESSORIES: SUZ-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	ControlService Tool	☐ PAC-SK52ST
	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
	USB Conversion Cable for PAC-USCMS-MN-1	☐ M21EC1397
	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 Armored MiniSplit Cable50 ft roll	☐ SW144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐ SW144-250
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐ S144-250
	16 Gauge 4 wire MiniSplit Cable250 ft roll	☐ S164-250
	16 Gauge 4 wire MiniSplit Cable50 ft roll	☐ S164-50
	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
	24 Dual Fan Stand	☐ QSMS2402M
	Outdoor Unit Stand 12 High	☐ QSMS1202M
Terminal Signal Adapter	Connector and wire for On/Off and Error status using CN51 and CN52	☐ PAC-725AD
	Connector and wire for On/Off and Fan command using CN32	☐ PAC-715AD
Wind Baffle	Front Wind Baffle	☐ WB-PA3 (two pieces required)
Notes		

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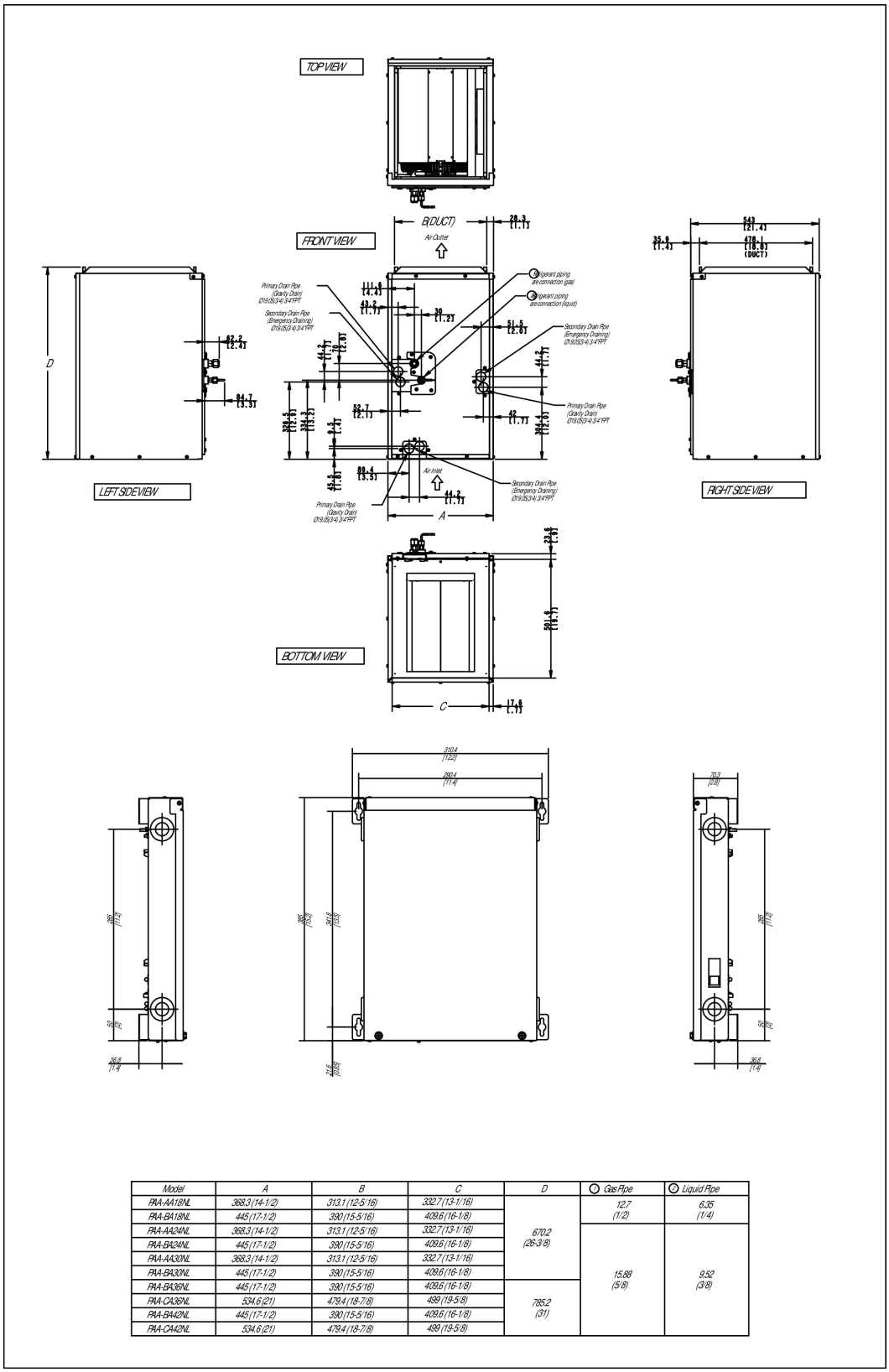
INDOOR UNIT DIMENSIONS: PAA-AA24NL



Model	A	B	C	D	② Gas Pipe	③ Liquid Pipe
PAA-AA18NL	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)	670.2 (26-3/8)	12.7 (1/2)	6.35 (1/4)
PAA-BA18NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-AA24NL	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)		15.88 (5/8)	9.52 (3/8)
PAA-BA24NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-AA30NL	368.3 (14-1/2)	313.1 (12-5/16)	332.7 (13-1/16)			
PAA-BA30NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-BA36NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)	785.2 (31)		
PAA-CA36NL	534.6 (21)	479.4 (18-7/8)	499 (19-5/8)			
PAA-BA42NL	445 (17-1/2)	390 (15-5/16)	409.6 (16-1/8)			
PAA-CA42NL	534.6 (21)	479.4 (18-7/8)	499 (19-5/8)			

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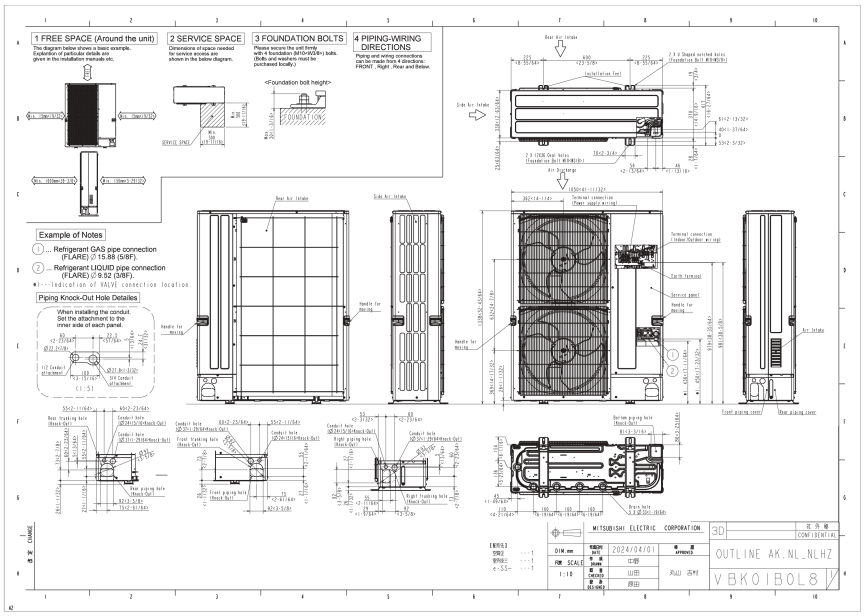
OUTDOOR UNIT DIMENSIONS: SUZ-AK24NLHZ



Model name

PUZ-AK36/42/48NL
PUY-AK36/42/48NL
SUZ-AK48NL
TPUZ4036I/0421/048IKALNDA
TPUY4036I/0421/048IKALNDA
NTXSKS048LI21A
PUZ-AK24/30/36/42/48NLHZ
SUZ-AK24/30/36/48NLHZ
TPUZH0241/0301/036I/0421/048IKALNDA
NTXSKS024/030/036/048LI21A

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