PAA-BA18NL & PUZ-AH24NL
18,000 BTU/H CASED COIL INDOOR UNIT
18,000 BTU/H HEAT PUMP OUTDOOR UNIT

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

INDOOR Unit ... PAA-BA18NL

OUTDOOR Unit ... PUZ-AH24NL

INDOOR UNIT FEATURES

- 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
- 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

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.

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SPECIFICATIONS: PAA-BA18NL & PUZ-AH24NL

Cooling at 95F[1]	Maximum Capacity	Btu/h	18500
	Rated Capacity	Btu/h	18000
	Minimum Capacity	Btu/h	9500
	Maximum Power Input	W	1450
	Rated Power Input	W	1400
	Moisture Removal	Pints/h	5.10
	Sensible Heat Factor		0.71
	Power Factor [208V / 230V]	%	86 / 86
Heating at 47F[2]	Maximum Capacity	Btu/h	30100
	Rated Capacity	Btu/h	22600
	Minimum Capacity	Btu/h	11400
	Maximum Power Input	W	2920
	Rated Power Input	W	1950
	Power Factor [208V / 230V]	%	90 / 90
Heating at 17F[3]	Maximum Capacity	Btu/h	10200
	Rated Capacity	Btu/h	10200
	Maximum Power Input	W	1200
	Rated Power Input	W	1200
Heating at 5F[5]	Maximum Capacity	Btu/h	13300
	Maximum Power Input	W	1860
Heating at -4F[6]	Maximum Capacity	Btu/h	8700
Efficiency	SEER2		17.9
	EER2[1]		12.80
	HSPF2 [IV]		8.80
	COP at 47°F[2]		3.4
	COP at 17°F at Maximum Capacity[3]		2.50
	COP at 5°F at Maximum Capacity[5]		2.10
	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	MCA	A	0.2
	Rated Airflow, Dry	CFM	525
	Maximum Airflow, Dry	CFM	812
	Minimum Airflow, Dry	CFM	424
	Internal Static Pressure [at Rated CFM]	in.WG	0.1
	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]	17-9/16 x 21-7/16 x 27-1/2 [445 x 543 x 697]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	19-5/16 x 25-5/16 x 33 [491 x 695 x 838]
	Unit Weight [Cased Coil Only]	lbs [kg]	54.0 [24.5]
	Control Box Weight	lbs [kg]	5.1 [2.3]
	Package Weight	lbs [kg]	77.2 [35]
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	22
	MOCP	A	37
	Fan Motor Output	W	74
	Airflow Rate Cooling	CFM	1940
	Airflow Rate Heating	CFM	1940
	Defrost Method		Reverse Cycle

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

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Outdoor Unit	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 No.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]
	Unit Weight	lbs [kg]	155 [70]
	Package Weight	lbs [kg]	179 [81]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 23
	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	70 , 59 / -4 , -4
	Heating Thermal Lock-out / Re-start Temperatures**	F	-13 / -4
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	7 , 11
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
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]	100 [30]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

Notes

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INDOOR UNIT ACCESSORIES: PAA-BA18NL

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
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
Control Interface	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Thermostat Interface	☐ PAC-US446CN-1
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	IT Extender	☐ PAC-WHS01IE-E
	Operation and Error Status Output Adapter ¹	☐ PAC-SF40RM-E
Disconnect Switch	(30A/600V/UL) [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 - 30 feet	☐ MPLS385812T-30
	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
	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	☐ MLS141212T-15
	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
	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	☐ MLS141212T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	☐ MPLS385812T-15
	1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet	☐ MLS141212T-30
	1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet	☐ MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	☐ MLS141212T-100
N/A		☐ Unknown
Port Adaptor	Adaptor 1/2 x 5/8	☑ PAC-SK89RJ-E
	Adaptor 1/4 x 3/8	☑ PAC-SJ87RJ-E
Power Supplies & Auxiliary Components	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	☐ PAC-740
Remote Sensor	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
	Wall Mounted Remote Temperature Sensor	☐ PAC-SE41TS-E
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 Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller	☐ PAR-42MAAUB
	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
Wireless Remote Controller	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-E
	Wireless Remote Contoller	☐ PAR-SL101A-E
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
Notes		

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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 Cable50 ft roll	☐	S144-50
	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
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	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	Condenser Wall Bracket	☐	QSWB2000M-1
	18 Single Fan Stand	☐	QSMS1801M
	24 Single Fan Stand	☐	QSMS2401M
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
Terminal Signal Adapter	5-Pin Wiring Harness	☐	PAC-725AD
	3-Pin Wiring Harness	☐	PAC-715AD
Wind Baffle	Side Advanced Wind Baffle	☐	WB-SD5
	Front Wind Baffle	☐	WB-PA5
	Rear Wind Baffle	☐	WB-RE5
Notes			

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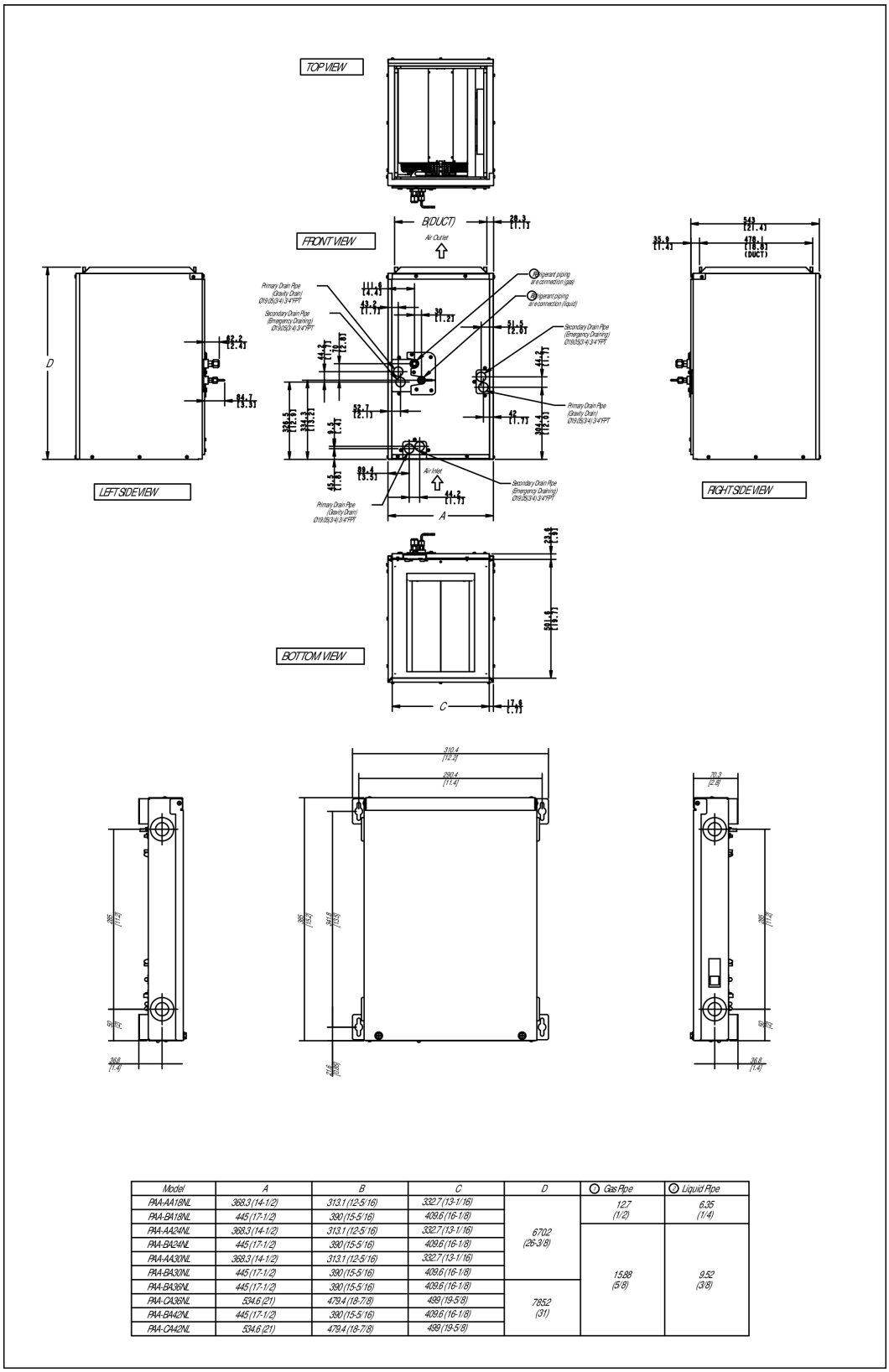
INDOOR UNIT DIMENSIONS: PAA-BA18NL



Model	A	B	C	D	Ⓐ Gas Pipe	Ⓑ 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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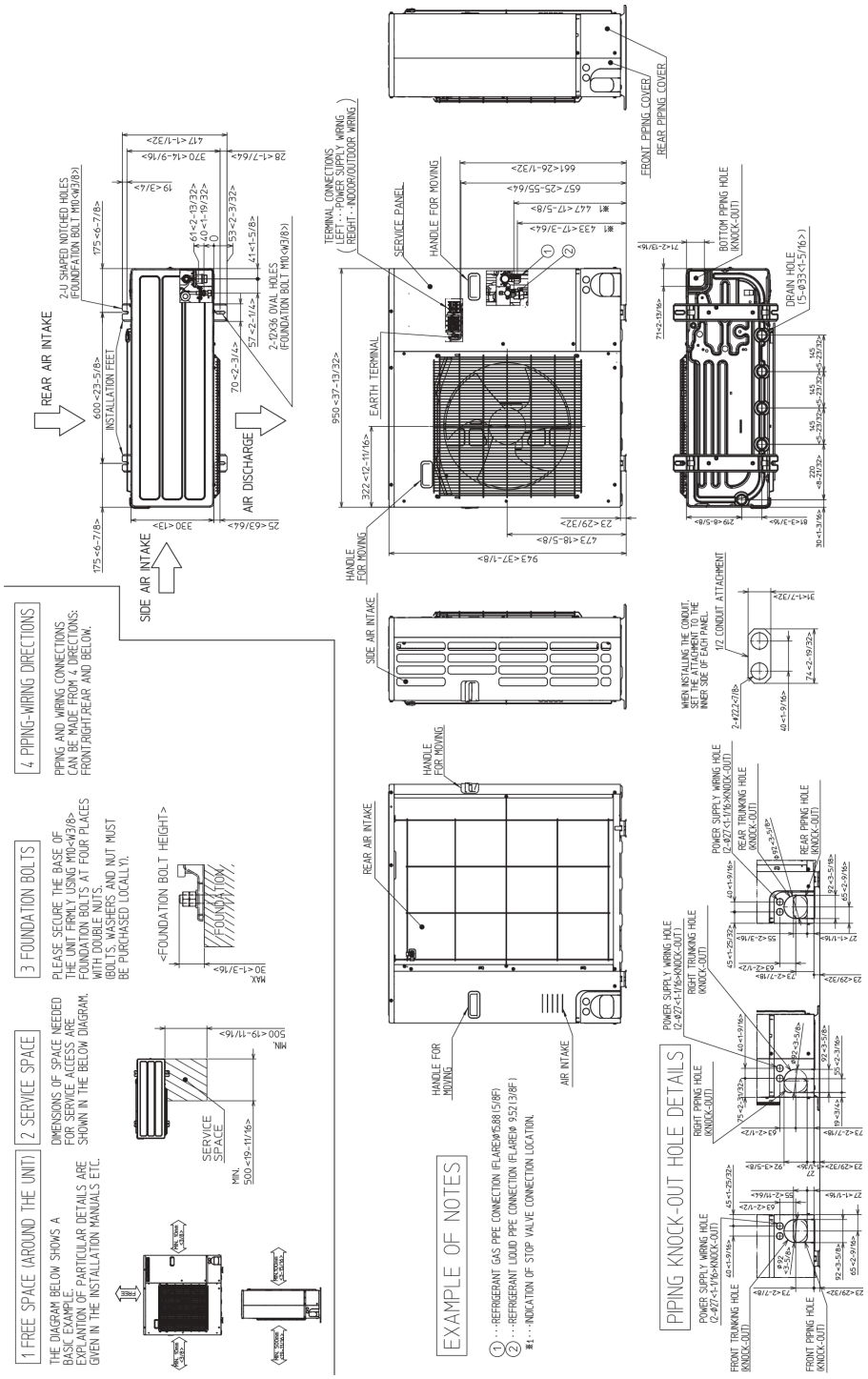
OUTDOOR UNIT DIMENSIONS: PUZ-AH24NL



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