

PEAD-AA18NL & SUZ-AA18NL
18,000 BTU/H HORIZONTAL-DUCTED INDOOR UNIT
18,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit.....PEAD-AA18NL

OUTDOOR Unit.....SUZ-AA18NL

INDOOR UNIT FEATURES

- Auto Changeover: The unit will automatically switch between heating and cooling modes to maintain your desired temperature.
- Light Commercial: Light commercial applications include small offices, restaurants, and retail.
- Multi Zone: A multi-zone unit provides personalized comfort control to multiple spaces.

OUTDOOR UNIT FEATURES

- 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.
- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Seacoast Protection: Designed to protect against the corrosive effects of environments that are in close proximity to the sea.

SPECIFICATIONS: PEAD-AA18NL & SUZ-AA18NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	18,000
	Rated Capacity	Btu/h	18,000
	Minimum Capacity	Btu/h	5,500
	Maximum Power Input	W	1,410
	Rated Power Input	W	1,410
	Moisture Removal	Pints/h	2.90
	Sensible Heat Factor	-	0.82
Heating at 47F ²	Power Factor [208V / 230V]	% / %	95 / 95
	Maximum Capacity	Btu/h	23,500
	Rated Capacity	Btu/h	20,000
	Minimum Capacity	Btu/h	8,300
	Maximum Power Input	W	1,910
	Rated Power Input	W	1,542
	Power Factor [208V / 230V]	% / %	97 / 97
Heating at 17F ³	Maximum Capacity	Btu/h	13,100
	Rated Capacity	Btu/h	13,100
	Maximum Power Input	W	1,250
	Rated Power Input	W	1,250
Heating at 5F ⁵	Maximum Capacity	Btu/h	10,500
	Maximum Power Input	W	1,025
Heating at -4F ⁶	Maximum Capacity	Btu/h	8,500
Efficiency	SEER2		17.20
	EER2 ¹		12.70
	HSPF2 [IV]		10.40
	COP at 47°F ²		3.80
	COP at 17°F at Maximum Capacity ³		3
	COP at 5°F at Maximum Capacity ⁵		3
	COP at -4°F at Maximum Capacity ⁶		2.65
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC , ø , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC - 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
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	MCA	A	2.25
	Fan Motor Output	W	121
	Airflow Rate at Cooling, Dry	CFM	403 , 424 , 512 , 600
	Airflow Rate at Heating, Dry	CFM	403 , 424 , 512 , 600
	Sound Pressure Level [Cooling]	dB (A)	28 , 29 , 34 , 37
	Sound Pressure Level [Heating]	dB (A)	28 , 29 , 34 , 37
	External Static Pressure	in.WG	0.14 , 0.20 , 0.28 , 0.40 , 0.60
	Drain Pipe Size O.D.	inch [mm]	1-1/4 [32]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	46-1/8 x 35-7/16 x 13 [1,170 x 900 x 330]
	Unit Weight	lbs [kg]	60 [27]
	Package Weight	lbs [kg]	71 [32]
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 / °FDB	83 / 50

NOTES

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

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

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

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

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

⁶Indoor/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	MCA	A	25
	MOCP	A	42
	Fan Motor Output	W	50
	Airflow Rate Cooling	CFM	2,193
	Airflow Rate Heating	CFM	1,949
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	54
	Sound Pressure Level, Heating ²	dB (A)	55
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMT
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 14.5
	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]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	38-5/8 x 16-9/16 x 39 [980 x 420 x 990]
	Unit Weight	lbs [kg]	115 [52.16]
	Package Weight	lbs [kg]	133 [60.33]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB / °FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-1 / 3
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -4 , -5
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-14 / -4
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs	3
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10
Fan	Fan Motor Type		DC Motor
NOTES ¹ Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB) ² Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB) ³ Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB) ⁴ Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB) ⁵ Heating at -4°F (Indoor: 70°F DB, 60°F WB // Outdoor: -4°F DB, -5°F 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.			

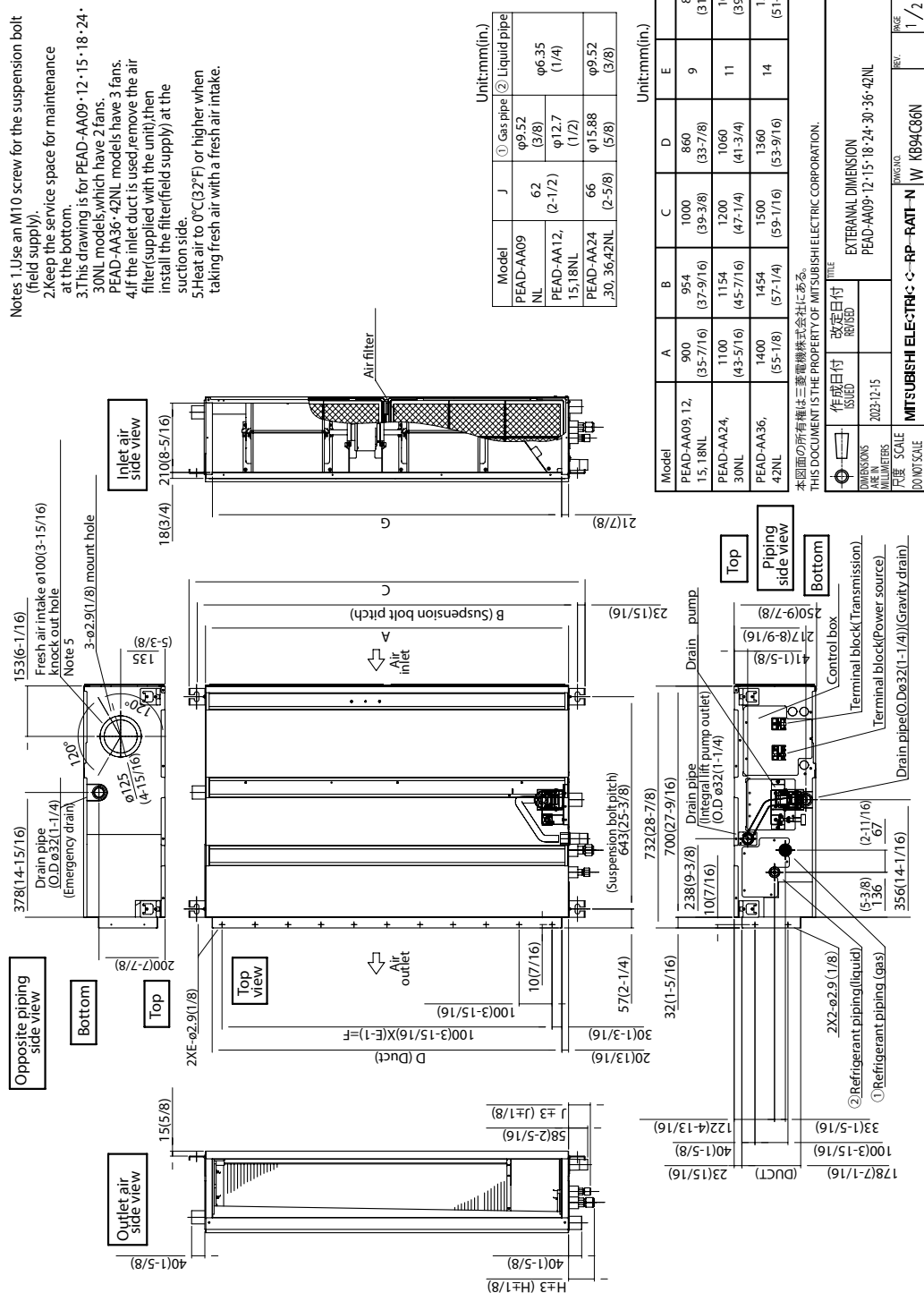
INDOOR UNIT ACCESSORIES: PEAD-AA18NL

Condensate	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH 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
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	X86-003
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	SI30-230
Control Interface	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	kumo station® for Comfort app	PAC-WHS01HC-E
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	IT Extender	PAC-WHS01IE-E
	Operation and Error Status Output Adapter	PAC-SF40RM-E
Control Wire	202PR shielded 1PR plenum wire for Airzone 500 ft reel	CW2042S2-500
	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	CW2042S2-100
Disconnect Switch	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
Filter Box	Filter Box with 2" thick pleated MERV 13 Filters	FBM2-2-A
Lineset	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	MLS141212T-65
	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	MLS141212T-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
Remote Sensor	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
	Wireless temperature and humidity sensor for Comfort app	PAC-USWHS003-TH-1
Terminal Signal Adapter	Backup Heat Relay Kit	CN24RELAY-KIT-CM3
	Connector and wire for On/Off and Fan command using CN32	PAC-715AD
	Connector and wire for On/Off and Error status using CN51 and CN52	PAC-725AD
Wired Remote Controller	Simple MA Remote Controller	PAC-YT53CRAU-J
	Touch MA Remote Controller	PAR-CT01MAU-SB
	Deluxe MA Wired Remote Controller	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
Wireless Remote Controller	Wireless Universal Handheld Remote Controller (requires PAR-SA9CA-E)	PAR-SL101A-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	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 ¹ Unable to use with Wireless Handheld Remote Controller		

OUTDOOR UNIT ACCESSORIES: SUZ-AA18NL

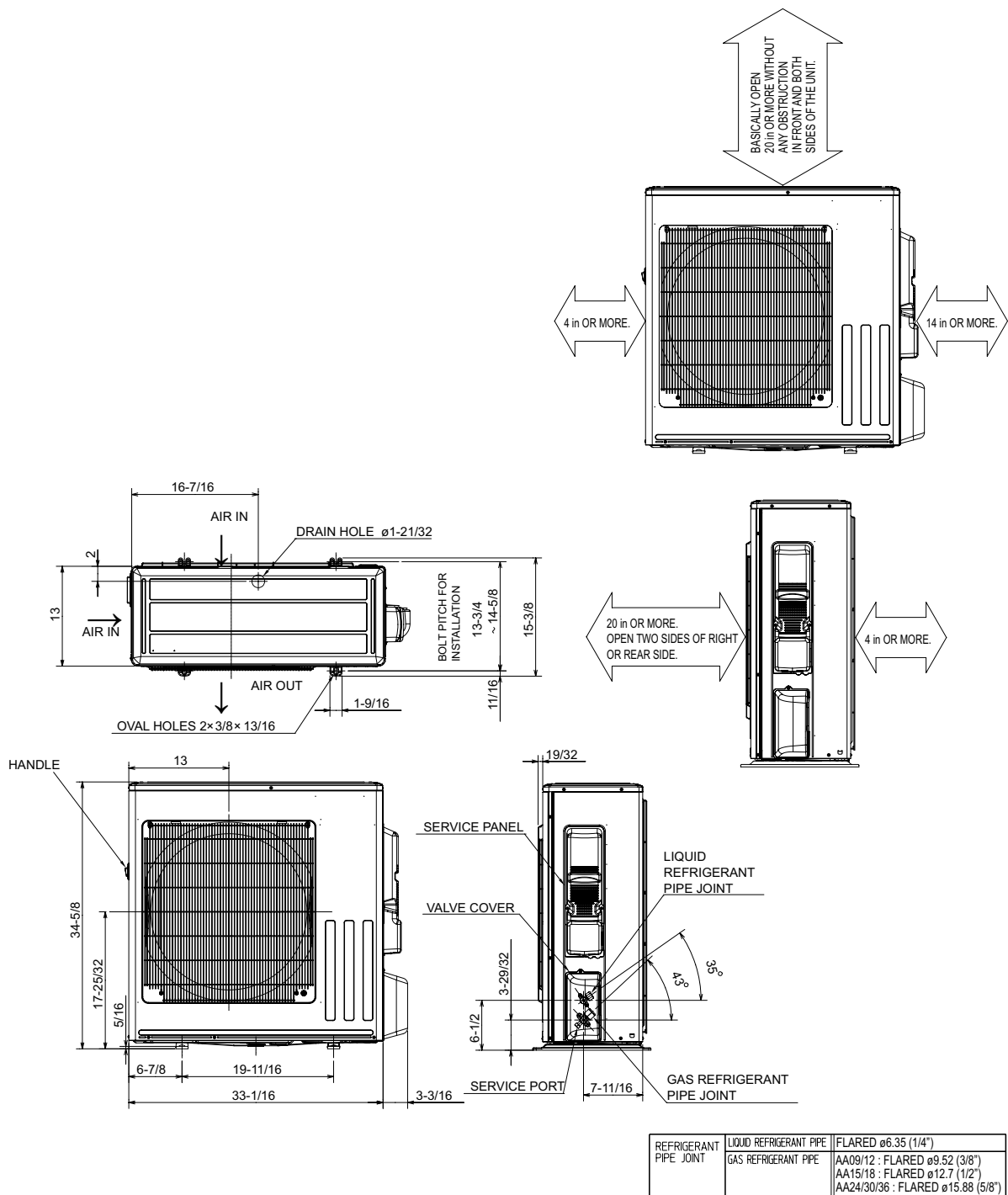
Air Outlet Guide	Air Outlet Guide	MAC-890SG-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
DSD-400P	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
Drain Socket	Drain Socket	MAC-871DS
Hail Guards	Hail Guard	HG-A7
Mini-Split 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 16 x 36 x 3	ULTRILITE1
Muffler	Muffler	MAC-002MF-E
Optional Defrost Heater	Base Heater	MAC-660BH-U
Snow/Rain Diverter	SnowRain Diverter	SRD-3
Stand	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Condenser Wall Bracket	QSWB2000M-1
	18 Single Fan Stand	QSMS1801M
	Outdoor Unit Stand 12 High	QSMS1201M
NOTES		

INDOOR UNIT DIMENSIONS: PEAD-AA18NL



OUTDOOR UNIT DIMENSIONS: SUZ-AA18NL

REQUIRED SPACE



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