

PEAD-AA18NL & SUZ-AA18NLHZ
18,000 BTU/H HORIZONTAL-DUCTED INDOOR UNIT
18,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit.....PEAD-AA18NL

OUTDOOR Unit.....SUZ-AA18NLHZ

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

- 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.
- Hot Start: The system will warm up before blowing air, preventing blasts of cold air at start-up.
- H2i® Hyper-Heating: 100% heating performance down to 5° F with guaranteed heating down to -13° F.
- Freeze 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.
- Flash Injection: Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.
- 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.

SPECIFICATIONS: PEAD-AA18NL & SUZ-AA18NLHZ

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
	Power Factor [208V / 230V]	% / %	95 / 95
Heating at 47F ²	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	20,000
	Rated Capacity	Btu/h	13,100
	Maximum Power Input	W	2,590
	Rated Power Input	W	1,380
Heating at 5F ⁵	Maximum Capacity	Btu/h	20,000
	Maximum Power Input	W	2,590
Heating at -13F ⁹	Maximum Capacity	Btu/h	12,100
Efficiency	SEER2		17.30
	EER2 ¹		12.70
	HSPF2 [IV]		10
	COP at 47°F ²		3.80
	COP at 17°F at Maximum Capacity ³		2.20
	COP at 5°F at Maximum Capacity ⁵		2
	COP at -13°F at Maximum Capacity ⁹		1.61
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
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	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	95 , 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)

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

⁹Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°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.

SPECIFICATIONS: PEAD-AA18NL & SUZ-AA18NLHZ

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		Built-in
	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]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	115 [52.2]
	Package Weight	lbs [kg]	133 [60.3]
	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB / °FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-1 / 3
Refrigerant	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -13 , -14
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-22.5 / -14
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs	3
Piping	Maximum Pre-Charged Piping Length	ft [m]	25 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
	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]
Fan	Maximum Number of Bends		10
	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 -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°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

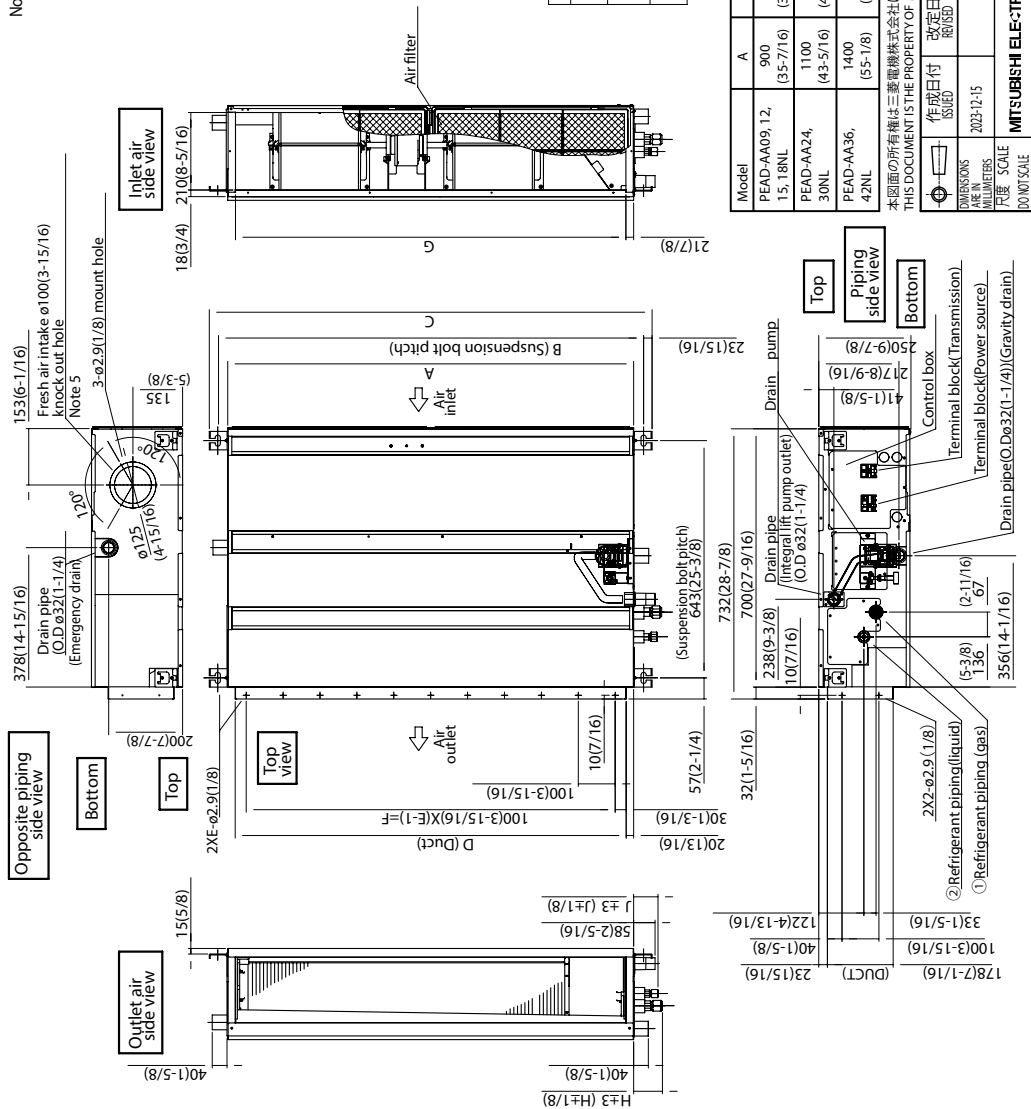
Condensate	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	X86-003
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	SI30-230
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	X87-835
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
Control Interface	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	IT Extender	PAC-WHS01IE-E
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	kumo station® for Comfort app	PAC-WHS01HC-E
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Operation and Error Status Output Adapter	PAC-SF40RM-E
Control Wire	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	CW2042S2-100
	202PR shielded 1PR plenum wire for Airzone 500 ft reel	CW2042S2-500
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 - 50 feet	MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	MLS141212T-100
	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
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	Connector and wire for On/Off and Fan command using CN32	PAC-715AD
	Backup Heat Relay Kit	CN24RELAY-KIT-CM3
	Connector and wire for On/Off and Error status using CN51 and CN52	PAC-725AD
Wired Remote Controller	Deluxe MA Wired Remote Controller	PAR-42MAAUB
	Simple MA Remote Controller	PAC-YT53CRAU-J
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Touch MA Remote Controller	PAR-CT01MAU-SB
Wireless Remote Controller	Wireless Universal Handheld Remote Controller (requires PAR-SA9CA-E)	PAR-SL101A-E
	Wireless RedLINK™ Remote Controller	MHK2
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
NOTES ¹ Unable to use with Wireless Handheld Remote Controller		

OUTDOOR UNIT ACCESSORIES: SUZ-AA18NLHZ

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 Armored MiniSplit Cable50 ft roll	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Muffler	Muffler	MAC-002MF-E
Snow/Rain Diverter	SnowRain Diverter	SRD-3
Stand	Condenser Wall Bracket	QSWB2000M-1
	18 Single Fan Stand	QSMS1801M
	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand 12 High	QSMS1201M
NOTES		

INDOOR UNIT DIMENSIONS: PEAD-AA18NL

- Notes 1. Use an M10 screw for the suspension bolt (field supply).
2. Keep the service space for maintenance at the bottom.
3. This drawing is for PEAD-AA09・12・15・18・24・30NL models, which have 2 fans.
PEAD-AA36・42NL models have 3 fans.
4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.



Unit:mm(in.)

Model	J	① Gas pipe	② Liquid pipe
PEAD-AA09 NL	62 (2-1/2)	ø9.52 (3/8)	ø6.35 (1/4)
PEAD-AA12, 15, 18NL	66 (2-5/8)	ø12.7 (1/2)	ø9.52 (3/8)

Unit:mm(in.)

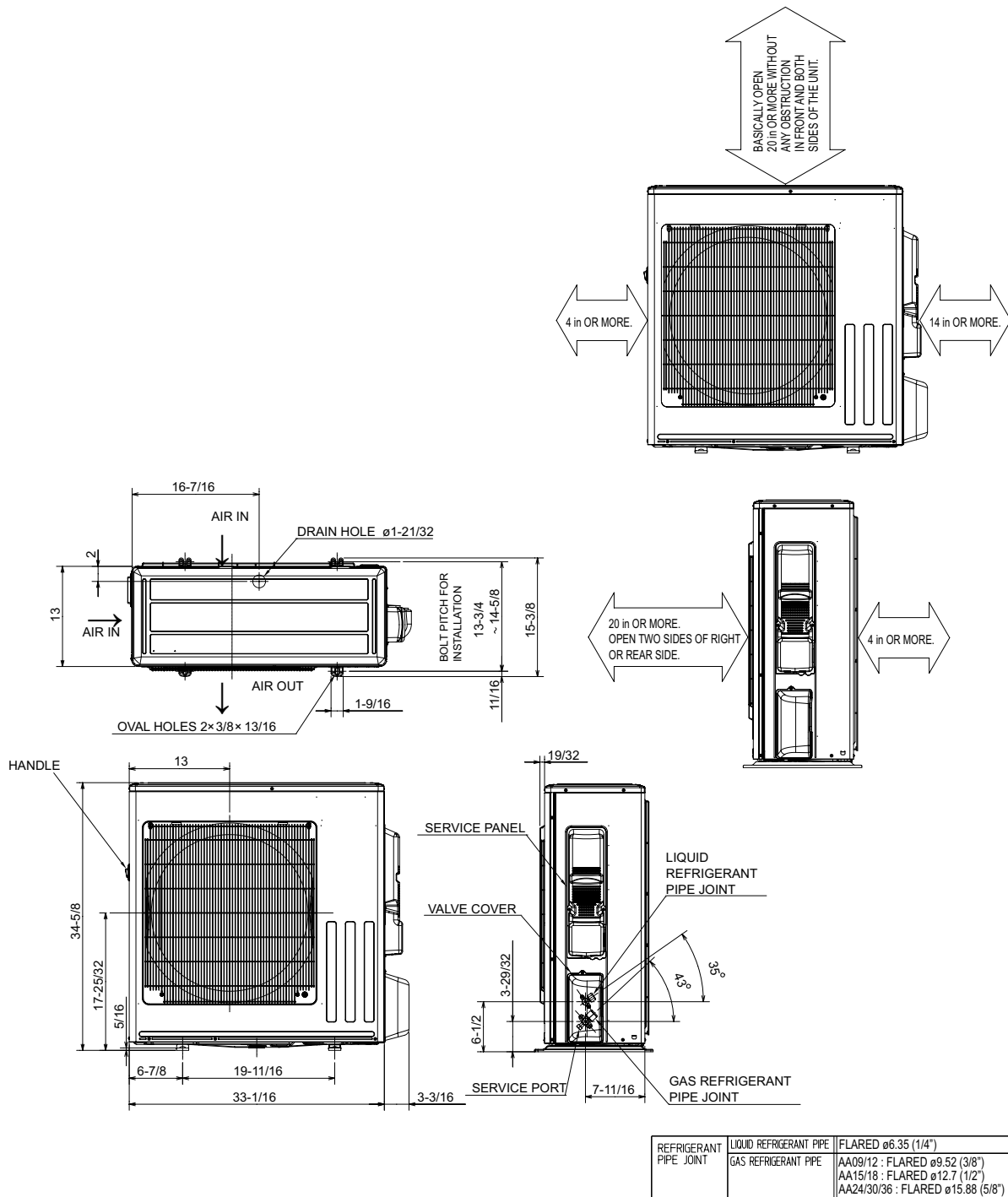
Model	A	B	C	D	E	F	G	H
PEAD-AA09, 12, 15, 18NL	900 (35-7/16)	954 (37-9/16)	1000 (39-3/8)	860 (33-7/8)	9 (31-1/2)	800 (31-1/2)	858 (33-13/16)	72 (2-7/8)
PEAD-AA24, 30NL	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11 (39-3/8)	1000 (39-3/8)	1058 (41-11/16)	78 (3-1/8)
PEAD-AA36, 42NL	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14 (51-3/16)	1300 (51-3/16)	1358 (53-1/2)	

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作製日付 ISSUED	改定日付 REVISED	図面 DIMENSIONS IN INCHES	尺数 SCALE	単位 UNIT
2023-12-15		PEAD-AA09-12・15・18・24・30・36・42NL	DO NOT SCALE	1/2
MITSUBISHI ELECTRIC CORP. - RP - RAIT-N		W K094C06N		

OUTDOOR UNIT DIMENSIONS: SUZ-AA18NLHZ

REQUIRED SPACE



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