

PEAD-AA36NL & SUZ-AK36NLHZ
36,000 BTU/H HORIZONTAL-DUCTED INDOOR UNIT
36,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit.....PEAD-AA36NL

OUTDOOR Unit.....SUZ-AK36NLHZ

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-AA36NL & SUZ-AK36NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	37,000
	Rated Capacity	Btu/h	36,000
	Minimum Capacity	Btu/h	14,600
	Maximum Power Input	W	2,970
	Rated Power Input	W	2,910
	Moisture Removal	Pints/h	11.80
	Sensible Heat Factor	-	0.65
Heating at 47F ²	Power Factor [208V / 230V]	% / %	95 / 95
	Maximum Capacity	Btu/h	40,000
	Rated Capacity	Btu/h	40,000
	Minimum Capacity	Btu/h	13,000
	Maximum Power Input	W	2,930
	Rated Power Input	W	2,930
	Power Factor [208V / 230V]	% / %	95 / 95
Heating at 17F ³	Maximum Capacity	Btu/h	38,000
	Rated Capacity	Btu/h	24,400
	Maximum Power Input	W	6,160
	Rated Power Input	W	2,800
Heating at 5F ⁵	Maximum Capacity	Btu/h	38,000
	Maximum Power Input	W	6,187
Heating at -13F ⁹	Maximum Capacity	Btu/h	31,000
Efficiency	SEER2		19.50
	EER2 ¹		12.30
	HSPF2 [IV]		8.50
	COP at 47°F ²		4.00
	COP at 17°F at Maximum Capacity ³		1.80
	COP at 5°F at Maximum Capacity ⁵		1.80
	COP at -13°F at Maximum Capacity ⁹		2.16
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	3.50
	Fan Motor Output	W	300
	Airflow Rate at Cooling, Dry	CFM	848 , 936 , 1,024 , 1,201
	Airflow Rate at Heating, Dry	CFM	848 , 936 , 1,024 , 1,201
	Sound Pressure Level [Cooling]	dB (A)	34 , 36 , 38 , 42
	Sound Pressure Level [Heating]	dB (A)	34 , 36 , 38 , 42
	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]	55-1/8 x 28-7/8 x 9-7/8 [1,400 x 732 x 250]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	65-3/4 x 35-7/16 x 13 [1,670 x 900 x 330]
	Unit Weight	lbs [kg]	82 [37]
	Package Weight	lbs [kg]	97 [44]
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 -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-AA36NL & SUZ-AK36NLHZ

Outdoor Unit	MCA	A	29
	MOCP	A	48
	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3,740
	Airflow Rate Heating	CFM	3,740
	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]	Type // oz	RM68EH // 47
	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 [1,050 x 355 x 1,338]
	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 [1,090 x 450 x 1,480]
	Unit Weight	lbs [kg]	231 [105]
	Package Weight	lbs [kg]	258 [117]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB / °FDB	115 / 14
	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
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	0.22
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]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		10
Fan	Fan Motor Type		DC Motor

NOTES

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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 -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F WB)

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INDOOR UNIT ACCESSORIES: PEAD-AA36NL

Condensate	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
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	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
Control Interface	Airzone Wireless Think Controller White	AZZBSTHINKRB
	kumo station® for Comfort app	PAC-WHS01HC-E
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	IT Extender	PAC-WHS01IE-E
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Operation and Error Status Output Adapter	PAC-SF40RM-E
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
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 - Black	TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
Filter Box	Filter Box with 2" thick pleated MERV 13 Filters	FBM2-4-A
Lineset	1/4 x 5/8 Lineset Twin-Tube Insulation - 15 feet	MLS145812T-15
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	Deluxe MA Wired Remote Controller	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Touch MA Remote Controller	PAR-CT01MAU-SB
	Simple MA Remote Controller	PAC-YT53CRAU-J
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	Wireless RedLINK™ Remote Controller	MHK2
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless Universal Handheld Remote Controller (requires PAR-SA9CA-E)	PAR-SL101A-E
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	PAR-FL32MA-E

NOTES

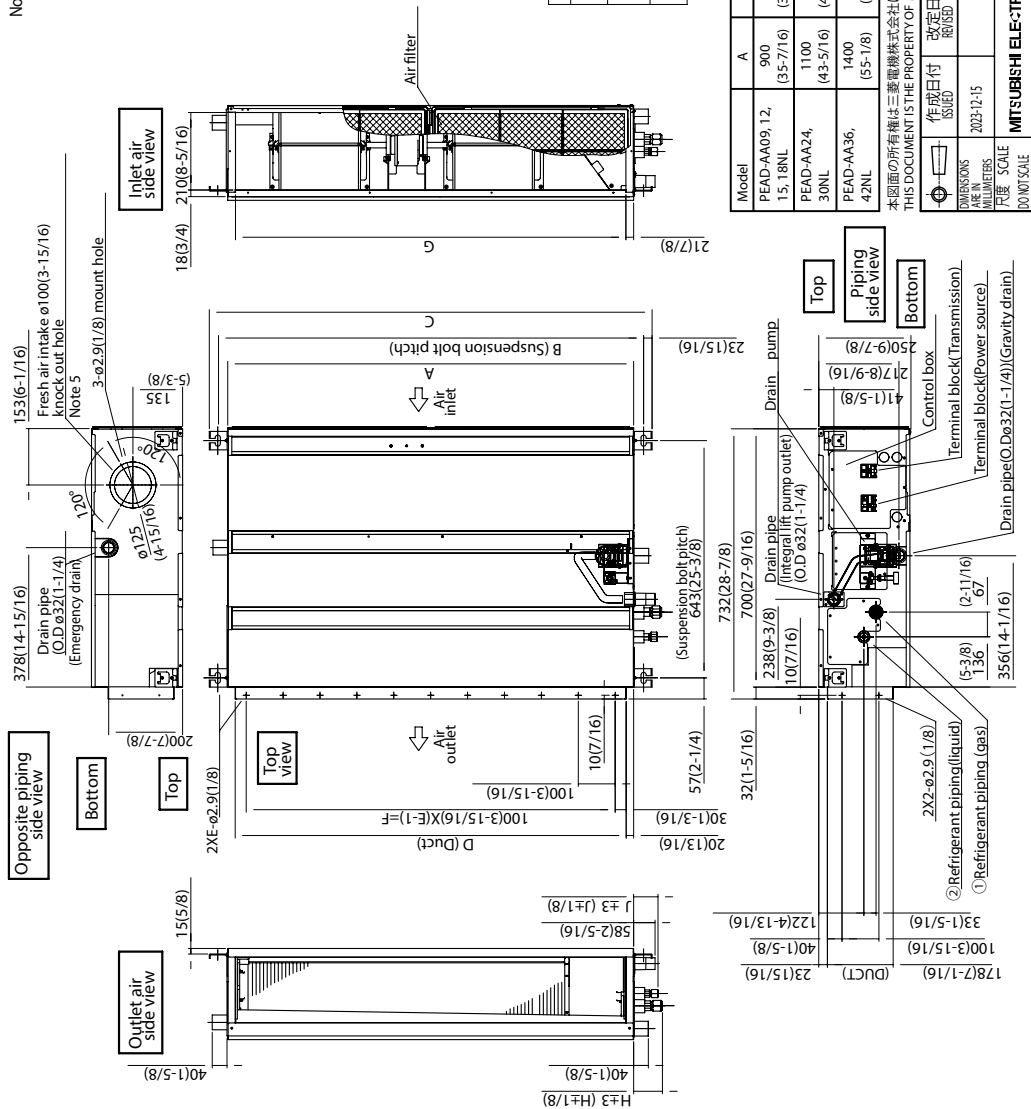
¹Unable to use with Wireless Handheld Remote Controller

OUTDOOR UNIT ACCESSORIES: SUZ-AK36NLHZ

Air Outlet Guide	Air Outlet Guide 1 Piece	PAC-SH96SG-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SH97DP-E
Control/Service Tool	USB Conversion Cable for PAC-USCMS-MN-1	M21EC1397
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
DSD-400P	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
Drain Socket	Drain Socket	PAC-SG61DS-E
Hail Guards	Hail Guard	HG-A2
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	16 Gauge 4 wire MiniSplit Cable250 ft roll	S164-250
	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 MiniSplit Cable250 ft roll	S144-250
	16 Gauge 4 wire MiniSplit Cable50 ft roll	S164-50
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
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Condenser Wall Bracket	QSWB2000M-1
	Outdoor Unit Stand 12 High	QSMS1202M
	24 Dual Fan Stand	QSMS2402M
Wind Baffle	Front Wind Baffle	WB-PA3
NOTES		

INDOOR UNIT DIMENSIONS: PEAD-AA36NL

- 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)
PEAD-AA24, 30, 36, 42NL	66 (2-5/8)	ø15.88 (5/8)	ø9.52 (3/8)

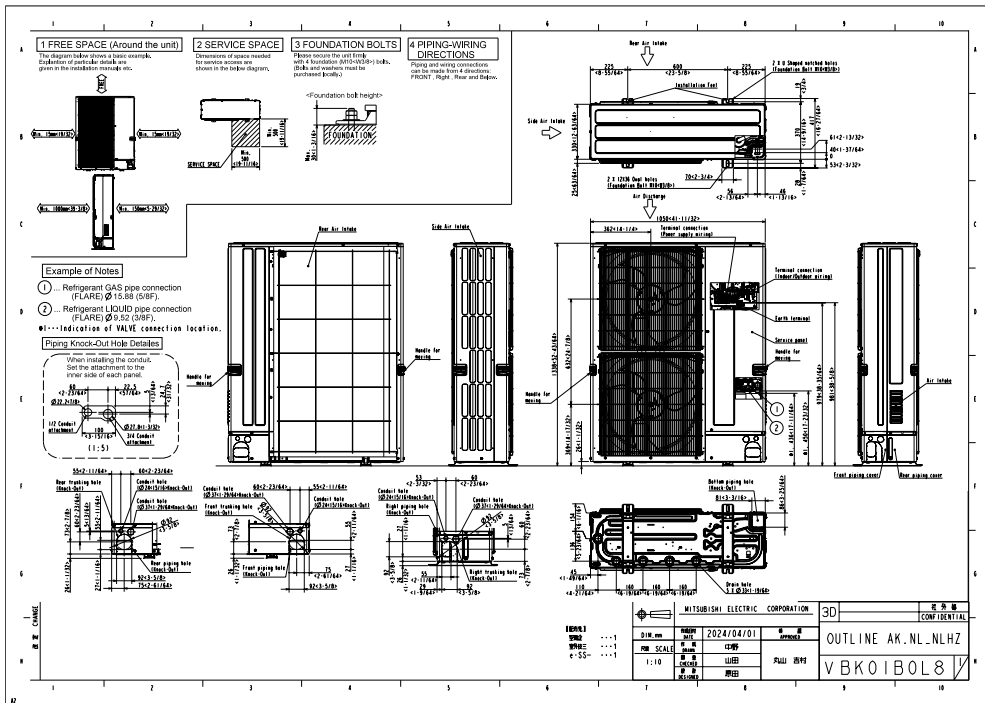
Unit:mm(in.)

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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作成日付 ISSUED	改定日付 REVISED	図面 DIMENSIONS IN INCHES	尺貫 SCALE	単位 UNIT
2023-12-15		PEAD-AA09-12・15・18・24・30・36・42NL	DO NOT SCALE	1/2
MITSUBISHI ELE-TRAC C-RP-RAT-N		W K094C06N		

OUTDOOR UNIT DIMENSIONS: SUZ-AK36NLHZ



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 <https://mitsubishicomfort.com>



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