

PAA-A18BA1 & PUY-A24NHA7
intelli-HEAT™ CASED COIL, 17.5" WIDTH, 18,000 BTU/H
24,000 BTU/H COOLING ONLY OUTDOOR



Job Name:

System Reference:

Date:

Indoor Unit.....PAA-A18BA1

Outdoor Unit.....PUY-A24NHA7



INDOOR UNIT FEATURES

- Compatible with any thermostatically controlled (24VAC) natural gas or LP furnace*
- Intelligent Comfort Control Function (automatic switchover between heat pump and furnace*)
- Includes cased coil and control box
- Available in 14.5", 17.5", and 21" widths
- Optimized heat exchanger design for increased efficiency and longevity
- Flared piping connection
- High quality drain pan material with high heat tolerance and low moisture absorption
- Multi-position installation: horizontal (left or right), vertical (up or down)
 - Drain pans for all multi-position configurations are included for easy installation
- Optional humidifier control and ERV control
- Oxygen free copper coils
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

*Mitsubishi Electric air conditioner and heat pump systems should only be connected with ANSI-Z21.47/CSA2.3 certified furnaces.

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Pre-charged with refrigerant volume for piping length up to 70 ft
- Low ambient cooling down to -40°F providing 100% capacity (with wind baffles)
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency
- Seacoast protection*
 - External Outer Panel: Phosphate coating + Acrylic-Enamel coating
 - Fan Motor Support: Epoxy resin coating (at edge face)
 - Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
 - Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
 - Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

*Seacoast protection standard from 2022 production

SPECIFICATIONS: PAA-A18BA1 & PUY-A24NHA7

Cooling at 95°F ¹	Maximum Capacity	BTU/H	18,000
	Rated Capacity	BTU/H	18,000
	Minimum Capacity	BTU/H	9,600
	Maximum Power Input	W	1,440
	Rated Power Input	W	1,440
	Moisture Removal	Pints/h	3.7
	Sensible Heat Factor		0.77
	Power Factor [208V / 230V]	%	87.8 / 87.8
Efficiency	SEER SEER2		17.5 16.5
	EER ¹ EER2 ¹		12.5 12.0
	ENERGY STAR® Certified		Yes
Electrical	Voltage, Phase, Frequency		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	24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size [Outdoor]	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
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	0.07
	Drain Pipe Size	In. [mm]	3/4 [19.05]
	External Finish Color		Galvanized Steel
	Unit Dimensions	W x D x H: In. [mm]	17.5 x 21.7 x 27.4 [445.0 x 551.2 x 696.0]
	Package Dimensions	W x D x H: In. [mm]	25.4 x 28.8 x 31.3 [646 x 732 x 795]
	Unit Weight [Cased Coil Only]	Lbs. [kg]	54 [24.0]
	Control Box Weight	Lbs. [kg]	11.00 [4.99]
	Package Weight	Lbs. [kg]	76 [34.6]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]	°F	90 DB, 73 WB / 66 DB, 59 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	82 DB / 50 DB
Outdoor Unit	MCA	A	19.0
	MOCP	A	26
	Fan Motor Full Load Amperage	A	0.4
	Fan Motor Output	W	86
	Airflow Rate [Cooling / Heating]	CFM	1,940
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating**
	Sound Pressure Level, Cooling ¹	dB(A)	47
	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		SNB172FWHM1
	Compressor Rated Load Amps	A	7
	Compressor Locked Rotor Amps	A	11.0
	Compressor Oil [Type // Charge]	oz.	FV50S // 23
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		N/A
	Unit Dimensions	W x D x H: In. [mm]	37-13/32 x 13 (+1-3/16) x 37-1/8 [950 x 330 (+30) x 943]
	Package Dimensions	W x D x H: In. [mm]	40-15/16 x 17-11/16 x 40-11/16 [1,040 x 450 x 1,033]
	Unit Weight	Lbs. [kg]	151 [68]
	Package Weight	Lbs. [kg]	176 [80]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]	°F	115 DB / 23 DB
Refrigerant	Type		R410A
	Pre-Charged Refrigerant Amount	Lbs, oz	7.0, 11.0
	Maximum Pre-Charged Piping Length	Ft. [m]	70.0 [20.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.3 [22.5]
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	In.[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:

AHRI Rated Conditions

(Rated data is determined at a fixed compressor speed) ¹Cooling (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

Airflow rate 350 CFM per rated ton of cooling at 95°F

Internal static pressure 0.3 in. WG (According to AHRI Standard - 210/240, where this is the maximum allowable internal static pressure for "Coil Only" systems)

**Blue Fin Coating Standard from 2022 production:

• PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****

• PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U*****

INDOOR UNIT ACCESSORIES: PAA-A18BA1

Control Interface	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Connector and wire for Operation status/error using CN51	PAC-725AD
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Remote Operation Adapter†	PAC-SF40RM-E
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
Remote Sensor	Flush Mount Remote Temperature Sensor	PAC-USSEN002-FM-1
	Flush Mount Temperature Sensor	PAC-USSEN001-FM-1
	Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for kumo cloud®	PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple Ductless Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Lockdown bracket for remote controller	RCMKP1CB
	Wireless MA Receiver	PAR-FA32MA-W
	Wireless MA Remote Controller	PAR-FL32MA-E
Condensate	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Lineset	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-10
	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-100
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-15
	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-30
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-50
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-65
Port Adaptor	Adaptor: 1/2" x 5/8" (required)	MAC-A456JP-E
	Adaptor: 1/4" x 3/8" (required)	PAC-493PI

NOTES:

†PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: PUY-A24NHA7

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SG59SG-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E
	Drain Pan	PAC-SG64DP-E
Control/Service Tool	Control/Service Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Hail Guards	Hail Guard	HG-A6
M-NET Converter	M-NET Converter	PAC-SJ85MA-E
	M-NET Converter	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1201M
Wind Baffle	Front Wind Baffle	WB-PA5
	Rear Wind Baffle	WB-RE5
	Side Advanced Wind Baffle	WB-SD5

INDOOR UNIT DIMENSIONS: PAA-A18BA1

TOP VIEW

Unit: mm
[in.]

Primary Drain Pipe
(Gravity Drain)
Ø 19.05 (3/4) 3/4" FPT

Secondary Drain Pipe
(Emergency Draining)
Ø 19.05 (3/4) 3/4" FPT

Secondary Drain Pipe
(Emergency Draining)
Ø 19.05(3/4) 3/4" FPT

- Refrigerant piping
flare connection (gas)
- Refrigerant piping
flare connection (liquid)

Secondary
(Emergency)
Ø 10.06(2)

**Secondary Drain Pipe
(Emergency Draining)**
Ø 19.05 (3/4) 3/4" FPT

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Primary Drain Pipe
(Gravity Drain)
Ø 19.05(3/4) 3/4" FPT

BOTTOM VIEW

LEFT SIDE VIEW

Technical drawing of a rectangular duct. The drawing shows a top-down view of the duct with dimensions and labels. The top horizontal edge is labeled 'E' with a dimension line. The top-left corner is labeled '35.9' with a dimension line. The top-right corner is labeled '478.1' with a dimension line. The bottom horizontal edge is labeled 'E' with a dimension line. The bottom-left corner is labeled '118.8' with a dimension line. The bottom-right corner is labeled '118.8' with a dimension line. The left vertical edge is labeled '11.4' with a dimension line. The right vertical edge is labeled '11.4' with a dimension line. The drawing includes a small square symbol at the top-right corner indicating a 90-degree angle. The drawing is a technical drawing of a rectangular duct.

RIGHT SIDE VIEW

Technical drawings of the Control Box showing front, side, and top views with dimensions in millimeters.

Front View: The front view shows a rectangular box with a width of 345.6 mm and a height of 382.4 mm. The bottom section contains two circular components (likely fans or lights) with a diameter of 45 mm each, and a small rectangular component (likely a switch or indicator) with a width of 29.2 mm. The distance between the centers of the two circular components is 45 mm. The distance from the bottom edge to the center of the circular components is 55 mm.

Side View: The side view shows the box with a depth of 323.6 mm. The height is 382.4 mm. The bottom section contains two circular components (likely fans or lights) with a diameter of 45 mm each, and a small rectangular component (likely a switch or indicator) with a width of 29.2 mm. The distance between the centers of the two circular components is 45 mm. The distance from the bottom edge to the center of the circular components is 55 mm.

Top View: The top view shows the box with a width of 345.6 mm and a depth of 138.4 mm. The bottom section contains two circular components (likely fans or lights) with a diameter of 45 mm each, and a small rectangular component (likely a switch or indicator) with a width of 29.2 mm. The distance between the centers of the two circular components is 45 mm. The distance from the bottom edge to the center of the circular components is 55 mm.

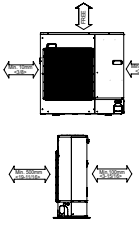
Model	A mm [in.]	B mm [in.]	C mm [in.]	D mm [in.]	E mm [in.]
PAA-A18AA1	368.3 [14-1/2]	313.1 [12-5/16]	332.7 [13-1/16]	670.2 [26-3/8]	543 [21-3/8]
PAA-A18BA1	445 [17-1/2]	390 [15-5/16]	409.6 [16-1/8]	670.2 [26-3/8]	543 [21-3/8]
PAA-A24AA1	368.3 [14-1/2]	313.1 [12-5/16]	332.7 [13-1/16]	670.2 [26-3/8]	543 [21-3/8]
PAA-A30AA1	368.3 [14-1/2]	313.1 [12-5/16]	332.7 [13-1/16]	670.2 [26-3/8]	543 [21-3/8]
PAA-A24BA1	445 [17-1/2]	390 [15-5/16]	409.6 [16-1/8]	670.2 [26-3/8]	543 [21-3/8]
PAA-A30BA1	445 [17-1/2]	390 [15-5/16]	409.6 [16-1/8]	670.2 [26-3/8]	543 [21-3/8]
PAA-A36BA1	445 [17-1/2]	390 [15-5/16]	409.6 [16-1/8]	785.2 [31]	543 [21-3/8]
PAA-A42BA1	445 [17-1/2]	390 [15-5/16]	409.6 [16-1/8]	785.2 [31]	543 [21-3/8]
PAA-A36CA1	534.6 [21]	479.4 [18-7/8]	499 [19-5/8]	785.2 [31]	543 [21-3/8]
PAA-A42CA1	534.6 [21]	479.4 [18-7/8]	499 [19-5/8]	785.2 [31]	543 [21-3/8]

OUTDOOR UNIT DIMENSIONS: PUY-A24NHA7

Unit: mm<in>

1 FREE SPACE (Around the unit)

The diagram below shows a basic example.
Explanation of particular details are given in the installation manuals etc.



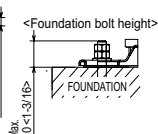
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



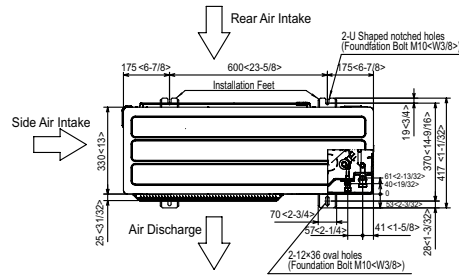
3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts and washers must be purchased locally.)



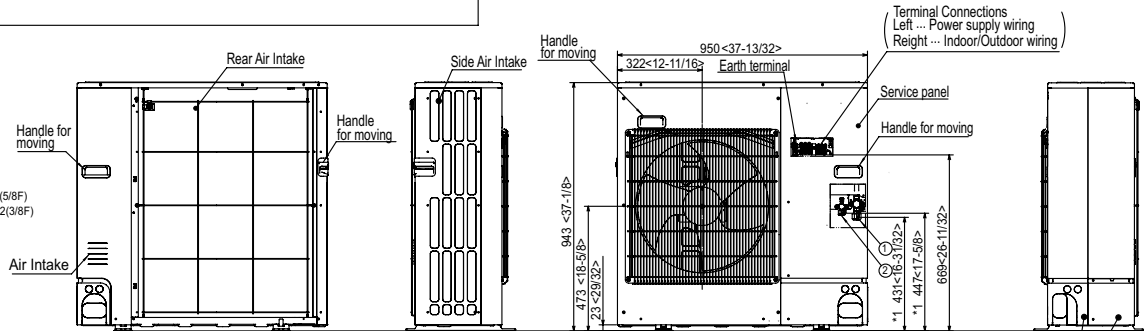
4 PIPING-WIRING DIRECTIONS

Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below.

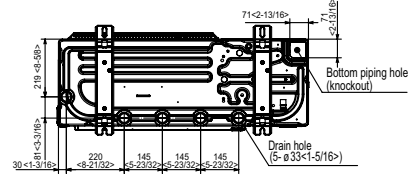
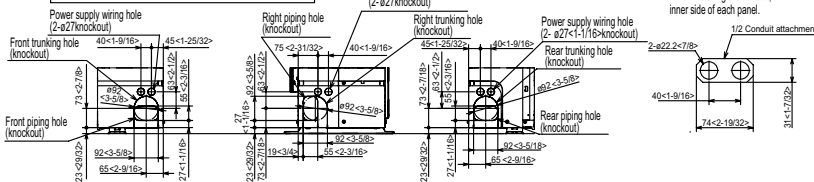


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88(5/8F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52(3/8F)
- *1 --- Indication of STOP VALVE connection location.



Piping knockout Hole Details



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

FORM# PAA-A18BA1 & PUY-A24NHA7 - 202304

