

PAA-A30AA1 & PUZ-HA30NKA
intelli-HEAT™ CASED COIL, 14.5" WIDTH, 30,000 BTU/H
30,000 BTU/H HYPER-HEATING UNIVERSAL OUTDOOR



Job Name:

System Reference:

Date:



Indoor Unit.....PAA-A30AA1

Outdoor Unit.....PUZ-HA30NKA

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
- Wide heating range: heating performance down to -13°F (average of 80% heating capacity)
- High speed heating at start up: Hyper-Heating INVERTER® reduces the time for heating at start up by about half compared to standard models
- Pre-charged with refrigerant volume for piping length up to 70 ft.
- High pressure/temperature protection
- Built-in base pan heater
- Flash injection circuit provides efficient high heating capacities at low ambient temperatures

SPECIFICATIONS: PAA-A30AA1 & PUZ-HA30NKA

Cooling at 95°F ¹	Maximum Capacity	BTU/H	30,000
	Rated Capacity	BTU/H	30,000
	Minimum Capacity	BTU/H	17,000
	Maximum Power Input	W	2,400
	Rated Power Input	W	2,400
	Moisture Removal	Pints/h	6.2
	Sensible Heat Factor		0.77
	Power Factor [208V / 230V]	%	94.2 / 94.2
Heating at 47°F ²	Maximum Capacity	BTU/H	35,400
	Rated Capacity	BTU/H	32,000
	Minimum Capacity	BTU/H	16,100
	Maximum Power Input	W	2,640
	Rated Power Input	W	2,640
	Power Factor [208V / 230V]	%	94.7 / 94.7
Heating at 17°F ³	Maximum Capacity	BTU/H	32,000
	Rated Capacity	BTU/H	23,200
	Maximum Power Input	W	4,580
	Rated Power Input	W	2,950
Heating at 5°F ⁴	Maximum Capacity	BTU/H	32,000
	Maximum Power Input	W	4,500
Heating at -4°F ⁵	Maximum Capacity	BTU/H	28,700
Heating at -13°F ⁷	Maximum Capacity	BTU/H	25,600
Efficiency	SEER SEER2		16.0 14.5
	EER ¹ EER2 ¹		12.5 12.0
	HSPF [IV] HSPF2 [IV]		10.0 8.8
	COP at 47°F ²		3.55
	COP at 17°F at Maximum Capacity ³		2.04
	COP at 5°F at Maximum Capacity ⁴		2.1
	COP at -4°F at Maximum Capacity ⁵		1.87
	COP at -13°F at Maximum Capacity ⁷		1.65
Electrical	ENERGY STAR® Certified		Yes
	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	35
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	0.2
	Rated Airflow, Dry	CFM	875
	Maximum Airflow, Dry	CFM	1,024
	Minimum Airflow, Dry	CFM	700
	Internal Static Pressure [at Rated CFM]	in. WG	0.24
	Drain Pipe Size	In. [mm]	3/4 [19.05]
	External Finish Color		Galvanized Steel
	Unit Dimensions	W x D x H: In. [mm]	14.5 x 21.7 x 27.4 [368.3 x 551.2 x 696.0]
	Package Dimensions	W x D x H: In. [mm]	22.5 x 28.8 x 31.1 [572 x 732 x 790]
	Unit Weight [Cased Coil Only]	Lbs. [kg]	48 [22.0]
	Control Box Weight	Lbs. [kg]	11.00 [4.99]
	Package Weight	Lbs. [kg]	81 [36.6]
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

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

²Heating at 47°F (Indoor // Outdoor)

°F

70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor)

°F

70 DB, 60 WB // 17 DB, 15 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)

Conditions

⁴Heating at 5°F (Indoor // Outdoor)

°F

70 DB, 60 WB // 5 DB, 4 WB

⁵Heating at -4°F (Indoor // Outdoor)

°F

70 DB, 60 WB // -4 DB, -5 WB

⁷Heating at -13°F (Indoor // Outdoor)

°F

70 DB, 60 WB // -13 DB, -14 WB

*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 to avoid thermistor error and automatically restarts at these temperatures.

SPECIFICATIONS: PAA-A30AA1 & PUZ-HA30NKA

Outdoor Unit	MCA	A	24.0
	MOCP	A	40
	Fan Motor Output	W	74
	Airflow Rate [Cooling / Heating]	CFM	3,880 / 3,880
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Sound Pressure Level, Cooling ¹	dB(A)	52
	Sound Pressure Level, Heating ²	dB(A)	53
	Compressor Type		Scroll
	Compressor Model		ANB33FJMMT
	Compressor Rated Load Amps	A	18
	Compressor Locked Rotor Amps	A	27.5
	Compressor Oil [Type // Charge]	oz.	FV50S // 1.4,47
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions	W x D x H: In. [mm]	41-5/16 x 14-3/16 x 52-11/16 [1,050 x 360 x 1,338]
	Package Dimensions	W x D x H: In. [mm]	43 x 18 x 57 [1,110 x 480 x 1,440]
Outdoor Unit Operating Temperature Range	Unit Weight	Lbs. [kg]	261 [118]
	Package Weight	Lbs. [kg]	285 [129]
	Cooling Air Temp [Maximum / Minimum]	°F	115 DB / 23 DB
Refrigerant	Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / -13 DB, -13 WB
	Heating Thermal Lock-out / Re-start Temperatures*	°F	-22 / -13
	Type		R410A
	Pre-Charged Refrigerant Amount	Lbs, oz	11.0, 7.0
Piping	Maximum Pre-Charged Piping Length	Ft. [m]	100.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	N/A
	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

²Heating at 47°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 17 DB, 15 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)

Conditions

⁴Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

⁵Heating at -4°F (Indoor // Outdoor)

°F 70 DB, 60 WB // -4 DB, -5 WB

⁷Heating at -13°F (Indoor // Outdoor)

°F 70 DB, 60 WB // -13 DB, -14 WB

*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 to avoid thermistor error and automatically restarts at these temperatures.

INDOOR UNIT ACCESSORIES: PAA-A30AA1

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

NOTES:


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

OUTDOOR UNIT ACCESSORIES: PUZ-HA30NKA

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E (two pieces are required)
Centralized Drain Pan	Central Drain Pan	PAC-SH97DP-E
Control/Service Tool	Control/Service Tool	PAC-SK52ST
Hail Guards	Hail Guard	HG-A2
M-NET Converter	M-NET Converter	PAC-SJ85MA-E
	M-NET Converter	PAC-SJ95MA-E
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
Optional Defrost Heater	Optional Defrost Heater	PAC-SJ20BH-E
Stand	18" Dual Fan Stand	QSMS1802M
	24" Dual Fan Stand	QSMS2402M
	Condenser Wall Bracket	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit Stand — 12" High	QSMS1202M
Wind Baffle	Front Wind Baffle	WB-PA3 (two pieces are required)

INDOOR UNIT DIMENSIONS: PAA-A30AA1

TOP VIEW

Unit: mm
[in.]

A schematic diagram of a closed container, such as a shipping box or a small room, with a gas cylinder inside. The container has a door on the right side. The gas cylinder is positioned at the bottom left of the container. The diagram illustrates the initial state where the gas is contained within the cylinder.

Primary Drain Pipe
 (Gravity Drain)
 ⌀ 19.05(3/4) 34° FPT

Secondary Drain Pipe
 (Emergency Draining)
 ⌀ 19.05(3/4) 34° FPT

Retrofitting piping
 Bare connection (gas)

Retrofitting piping
 Bare connection (liquid)

Secondary Drain Pipe
 (Emergency Draining)
 ⌀ 19.05(3/4) 34° FPT

Primary Drain Pipe
 (Gravity Drain)
 ⌀ 19.05(3/4) 34° FPT

Air Inlet

Secondary Drain Pipe
 (Emergency Draining)
 ⌀ 19.05(3/4) 34° FPT

Primary Drain Pipe
 (Gravity Drain)
 ⌀ 19.05(3/4) 34° FPT

Dimensions:
 109.2 [4.3]
 43.2 [1.7]
 30 [1.2]
 51.3 [2.0]
 44.8 [1.8]
 64.5 [2.5]
 126.5 [5.0]
 112.5 [4.4]
 12.8 [0.5]
 44.8 [1.8]
 52.1 [2.1]
 89.4 [3.5]
 44.8 [1.8]
 44.2 [1.7]

A

Technical drawing of a rectangular structure, likely a duct or pipe, showing dimensions and labels. The drawing includes a top view and a side view. The top view shows a rectangle with a width of 478.1 (18.8) (DUCT) and a height of 25.9 (1.1). The side view shows a vertical structure with a height of 25.9 (1.1) and a width of 478.1 (18.8) (DUCT). The drawing is labeled with 'E' at the top and '18.8' on the right side.

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

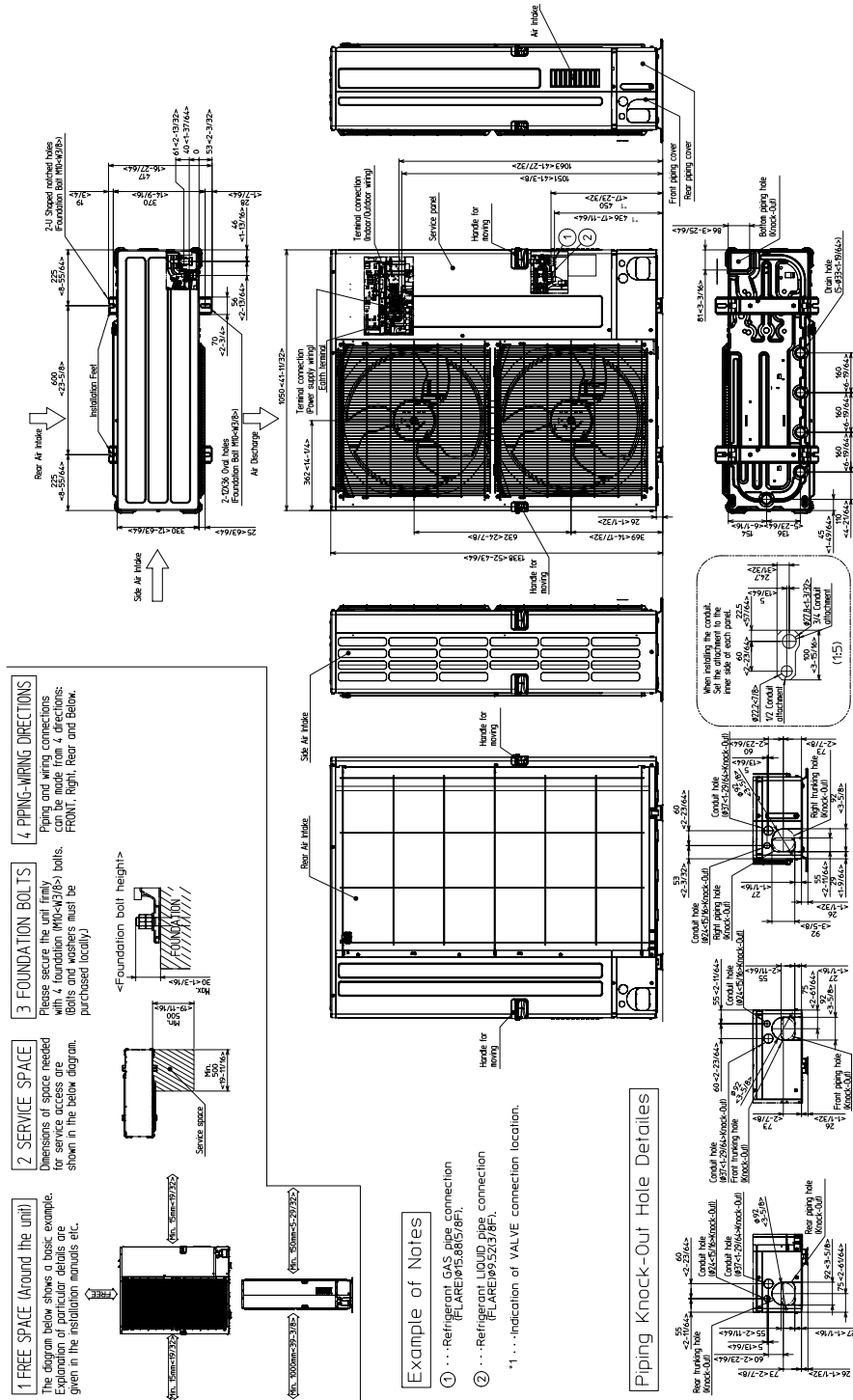
Front View: The front view shows a rectangular box with a height of 382.4 mm and a width of 345.6 mm. The bottom section contains two circular components (likely fans or sensors) with a diameter of 45 mm each, and a small rectangular component (likely a power switch or indicator) with a width of 29.4 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 left circular component is 55 mm.

Side View: The side view shows the box with a height of 382.4 mm and a depth of 323.6 mm. The top edge is 345.6 mm wide. The bottom edge is 45 mm wide. The distance from the bottom edge to the top edge is 323.6 mm. The distance from the bottom edge to the center of the left circular component is 290 mm. The distance from the bottom edge to the center of the right circular component is 290 mm. The distance from the bottom edge to the center of the right circular component is 290 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 edge is 45 mm wide. The distance from the bottom edge to the center of the left circular component is 29.4 mm. The distance from the bottom edge to the center of the right circular component is 29.4 mm. The distance from the bottom edge to the center of the right circular component is 29.4 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]

Unit: mm<in>



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