

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)

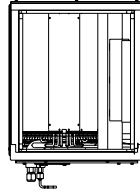
OUTDOOR UNIT ACCESSORIES: PUZ-HA30NKA

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

PAA-A18, 24, 30, 36, 42AA1/BA1/CA1

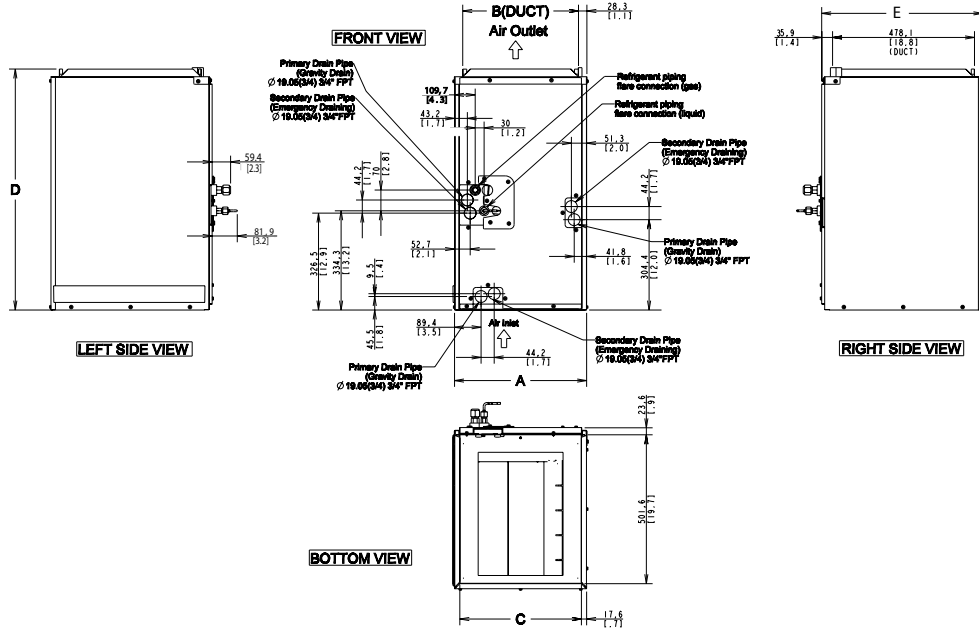
TOP VIEW



Unit: mm
[in.]

Indoor Unit

FRONT VIEW

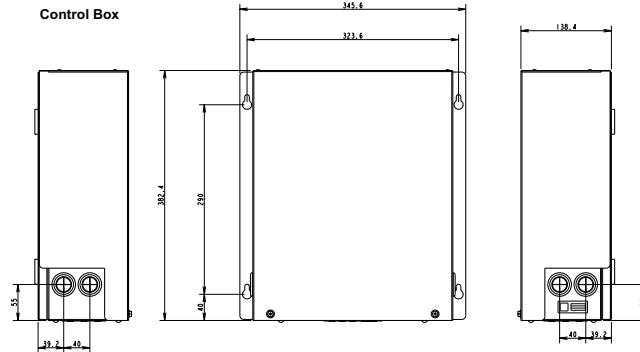


LEFT SIDE VIEW

RIGHT SIDE VIEW

BOTTOM VIEW

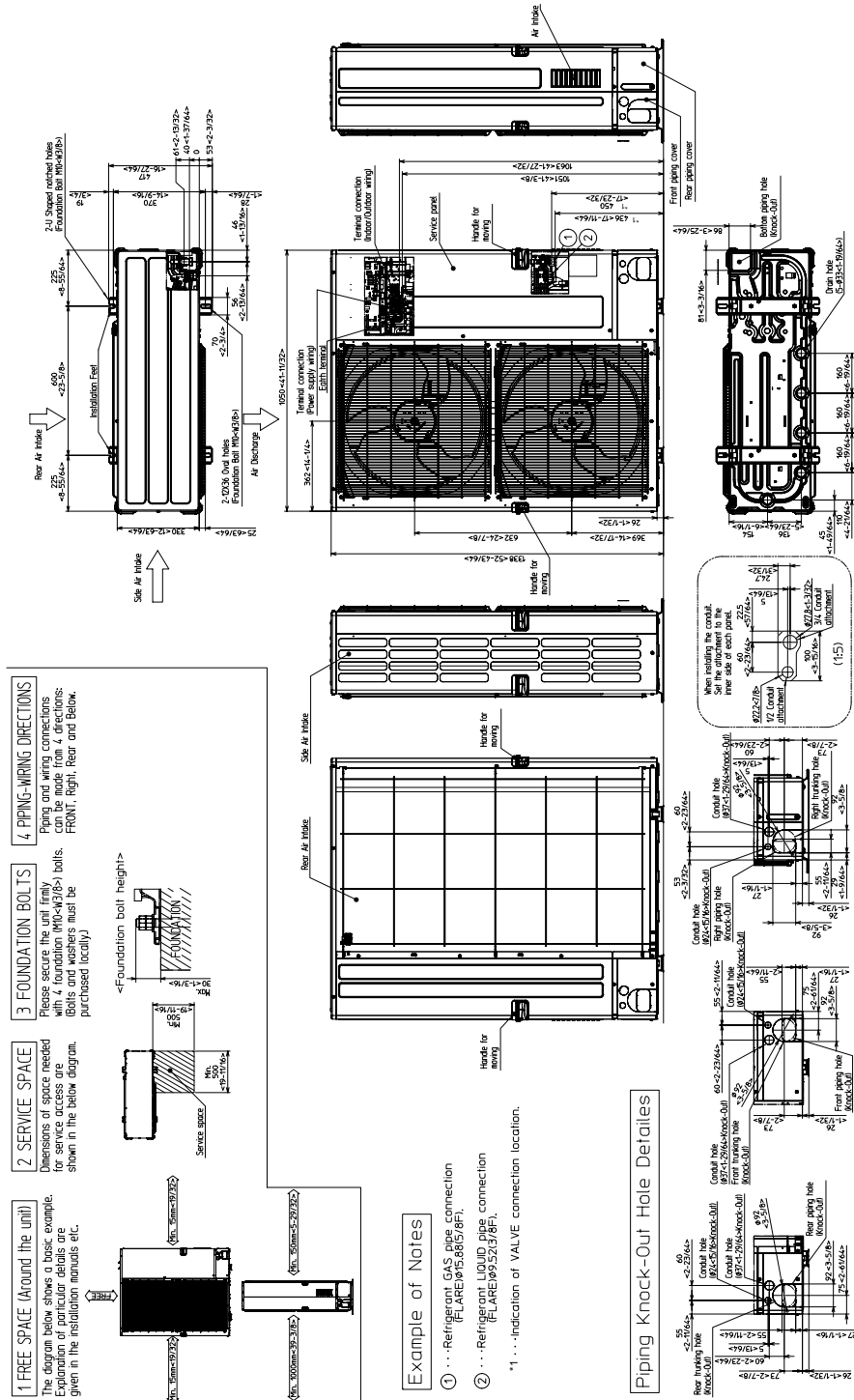
Control Box



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: PUZ-HA30NKA

Unit: mm<in>



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