

PVA-A36AA7 & PUZ-A36NKA7(-BS)
36,000 BTU/H MULTI-POSITION AIR HANDLER
36,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR



Job Name:

System Reference:

Date:



Indoor Unit.....PVA-A36AA7

Outdoor Unit

Standard Model.....PUZ-A36NKA7

Seacoast Model.....PUZ-A36NKA7-BS

INDOOR UNIT FEATURES

- Ducted air handler provides a solution to cool and heat large zones
- Highly efficient totally enclosed ECM motor
- Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency
- Positive pressure cabinet with air leakage of less than 1.0% at 1.0 in.WG
- Unique blow through design allows simple coil cleaning when the blower is removed
- Multi-position installation: horizontal (left or right), vertical (up or down). For downflow configurations, the CMA-1 is recommended for proper management of condensate to prevent water blow-off in certain conditions
- Optional electric heat kit for additional heat capacity
- Optional humidifier control and ERV control
- Multiple control options available:
 - kumo cloud® smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Power receiver pre-charged with refrigerant volume for piping length up to 100 ft
- Low ambient cooling down to 0°F providing 100% capacity
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency

SPECIFICATIONS: PVA-A36AA7 & PUZ-A36NKA7(-BS)

Cooling at 95°F ¹	Maximum Capacity	BTU/H	36,000
	Rated Capacity	BTU/H	36,000
	Minimum Capacity	BTU/H	14,600
	Maximum Power Input	W	3,250
	Rated Power Input	W	3,250
	Moisture Removal	Pints/h	4.5
	Sensible Heat Factor		0.77
Heating at 47°F ²	Maximum Capacity	BTU/H	42,000
	Rated Capacity	BTU/H	38,000
	Minimum Capacity	BTU/H	17,700
	Maximum Power Input	W	3,610
	Rated Power Input	W	3,030
	Power Factor [208V / 230V]	%	96.0 / 96.0
Heating at 17°F ³	Maximum Capacity	BTU/H	27,800
	Rated Capacity	BTU/H	24,000
	Maximum Power Input	W	3,060
	Rated Power Input	W	2,990
Heating at 5°F ⁴	Maximum Capacity	BTU/H	23,900
	Maximum Power Input	W	3,200
Efficiency	SEER		19.3
	EER ¹		9.8
	HSPF [IV]		9.5
	COP at 47°F ²		3.66
	COP at 17°F at Maximum Capacity ³		2.67
	COP at 5°F at Maximum Capacity ⁴		2.19
Electrical	ENERGY STAR® Certified		No
	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	30
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
	Indoor Unit	MCA	A
Fan Motor Full Load Amperage		A	4.40
Fan Motor Type			DC Motor
Airflow Rate at Cooling, Dry		CFM	788-956-1,125
Airflow Rate at Heating, Dry		CFM	788-956-1,125
Sound Pressure Level [Cooling]		dB[A]	30-34-38
Sound Pressure Level [Heating]		dB[A]	30-34-38
External Static Pressure		in.WG	0.30-0.5-0.8
Drain Pipe Size		In. [mm]	3/4 FPT [19.05]
Coating on Heat Exchanger			—
External Finish Color			Galvanized steel cabinet-Powder coated Slate Gray
Unit Dimensions		W x D x H: In. [mm]	25 x 21-5/8 x 59-1/2 [635 x 548 x 1,511]
Package Dimensions		W x D x H: In. [mm]	13-7/16 x 34-11/16 x 65 [340 x 880 x 1,650]
Unit Weight	Lbs. [kg]	172 [78]	
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 66 DB, 61 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB

NOTES:

AHRI Rated Conditions	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
(Rated data is determined at a fixed compressor speed)	² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 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.
 - » Wind baffles required to operate below 23°F DB in cooling mode.
 - » Heat pump system with wind baffle: 0°F - 115°F.
 - » Refer to wind baffle documentation for further information.

****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.

SEACOAST PROTECTION (-BS MODELS)

- 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 condenser coil to protect it against airborne contaminants.

SPECIFICATIONS: PVA-A36AA7 & PUZ-A36NKA7(-BS)

Outdoor Unit	MCA	A	25.0	
	MOCP	A	31	
	Fan Motor Full Load Amperage	A	0.5 + 0.5	
	Airflow Rate [Cooling / Heating]	CFM	3880 / 3880	
	Refrigerant Control		LEV	
	Defrost Method		Reverse Cycle	
	Coating on Heat Exchanger		Blue Fin Coating (BS Model only)	
	Sound Pressure Level, Cooling ¹	dB(A)	52	
	Sound Pressure Level, Heating ²	dB(A)	53	
	Compressor Type		INVERTER-driven twin rotary	
	Compressor Model		MNB33FBRC-L	
	Compressor Rated Load Amps	A	8	
	Compressor Locked Rotor Amps	A	13.0	
	Compressor Oil [Type // Charge]	oz.	FV50S // 45	
	External Finish Color		Ivory Munsell 3Y 7.8/1.1	
	Base Pan Heater		N/A	
	Unit Dimensions	W x D x H: In. [mm]	41-5/16 x 13 (+1-3/16) x 52-11/16 [1050 x 330 (+30) x 1338]	
	Package Dimensions	W x D x H: In. [mm]	42-15/16 x 17-11/16 x 56-4/16 [1091 x 450 x 1429]	
	Unit Weight	Lbs. [kg]	214 [97]	
	Package Weight	Lbs. [kg]	245 [111]	
	Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 0 DB
		Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / -4 DB, -4 WB
		Heating Thermal Lock-out / Re-start Temperatures**	°F	-8 / -4
Refrigerant	Maximum Charge Quantity	Lbs, oz	10.0, 6.0	
	Initial Charge Quantity	Ft. [m]	0.0 [30.0]	
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.7 [50]	
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]	165 [50]	
	Maximum Height Difference	Ft. [m]	100 [30]	
	Maximum Number of Bends		15	

NOTES:

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°F 80 DB, 67 WB // 95 DB, 75 WB

²Heating at 47°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 47 DB, 43 WB

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INDOOR UNIT ACCESSORIES: PVA-A36AA7

Control Interface	3-Pin Connector	PAC-715AD
	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	Connector cable for remote display	PAC-SA88HA-EP
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Lockdown bracket for remote controller	RCMKP1CB
	Remote Operation Adapter†	PAC-SF40RM-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
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	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEFACECB
	Airzone ZBS Wired Lite Controller White	AZZBSLITECB
	Airzone ZBS Wired Think Controller White	AZZBSTHINKCB
	Airzone ZBS Wireless Lite Controller White	AZZBSLITERB
	Airzone ZBS Wireless Think Controller White	AZZBSTHINKRB
	Deluxe Wired MA Remote Controller†	PAR-40MAAU
	Simple MA Remote Controller†	PAC-YT53CRAU-J
	Touch MA Controller†	PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Wireless MA Receiver	PAR-FA32MA-W
	Wireless MA Remote Controller	PAR-FL32MA-E
Condensate	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Control Wire	20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel	CW2042S2-100
	20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel	CW2042S2-500
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Downflow Kit	Condensate Management Kit for downflow installation	CMA-1
Electric Heat Lockout	Electric Heat Lockout	ETC-211020-MIT
Electric Kit Heats	10kW Electric Heater	EH10-MPA-LB
	15kW Electric Heater	EH15-MPAS-LB
	17kW Electric Heater	EH17-MPAS-LB
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
Terminal Block	Separate Terminal Power Block	SPTB1

NOTES:

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

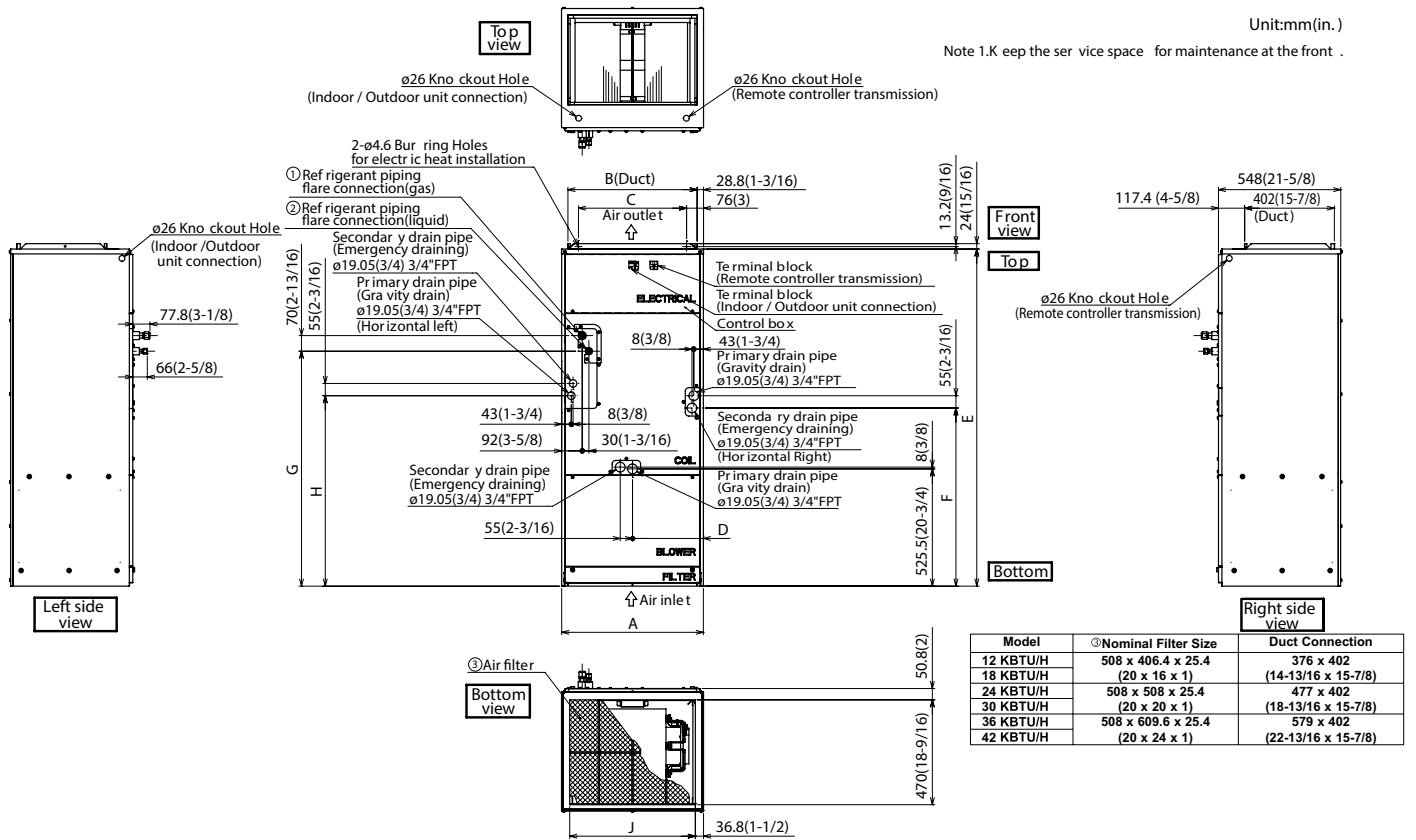
OUTDOOR UNIT ACCESSORIES: PUZ-A36NKA7(-BS)

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E (two pieces are required)
Control/Service Tool	Control/Service Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Distribution pipe	Twinning Distribution Pipe (50:50) ^{††}	MSDD-50TR-E
Drain Socket	Drain Socket	PAC-SG61DS-E
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" 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)
	Rear Wind Baffle	WB-RE6
	Side Advanced Wind Baffle	WB-SD6

INDOOR UNIT DIMENSIONS: PVA-A36AA7

Unit:mm(in.)

Note 1.Keep the service space for maintenance at the front.

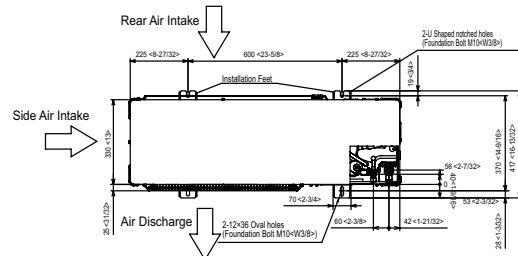
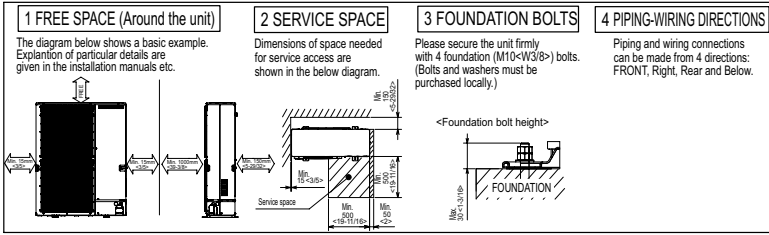


Model	①Nominal Filter Size	Duct Connection
12 KBTU/H	508 x 406.4 x 25.4	376 x 402
18 KBTU/H	(20 x 16 x 1)	(14-13/16 x 15-7/8)
24 KBTU/H	508 x 508 x 25.4	477 x 402
30 KBTU/H	(20 x 20 x 1)	(18-13/16 x 15-7/8)
36 KBTU/H	508 x 609.6 x 25.4	579 x 402
42 KBTU/H	(20 x 24 x 1)	(22-13/16 x 15-7/8)

Model	A	B	C	D	E	F	G	H	J	①Gas Pipe	②Liquid Pipe
12 KBTU/H	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-13/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	Φ 12.7 (1/2)	Φ 6.35 (1/4)
18 KBTU/H											
24 KBTU/H	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)		
30 KBTU/H											
36 KBTU/H	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
42 KBTU/H											

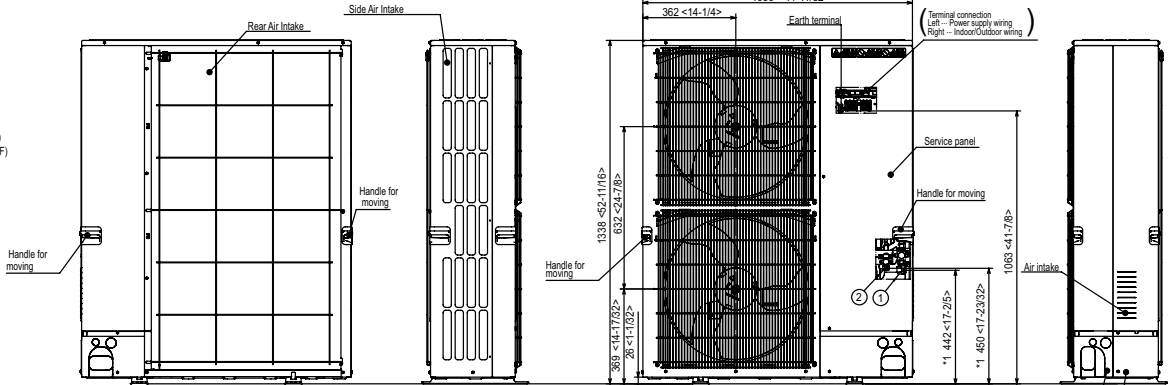
OUTDOOR UNIT DIMENSIONS: PUZ-A36NKA7(-BS)

Unit: mm<in>

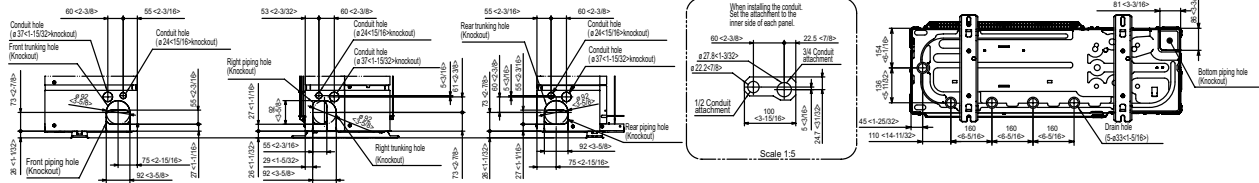


Example of Notes

- ① - Refrigerant GAS pipe connection (FLARE) ϕ 15.88(5/8F)
- ② - Refrigerant LIQUID pipe connection (FLARE) ϕ 9.52(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# PVA-A36AA7 & PUZ-A36NKA7(-BS) - 202209