PLA-A12EA7 & PUZ-A12NKA7(-BS) 12,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR 12.000 BTU/H 3' X 3' CEILING CASSETTE



Job Name:
System Reference:
Date:



 Indoor Unit
 PLA-A12EA7

 Outdoor Unit
 PUZ-A12NKA7

 Seacoast Model
 PUZ-A12NKA7-BS

INDOOR UNIT FEATURES

- · Space-efficient ductless installation
- · Equipped with 3D i-see Sensor® for enhanced comfort and energy efficiency
- · Airflow settings for high and low ceiling applications
- · Individual vane settings for direct/indirect airflow control or variable airflow patterns
- · Knockouts for outside-air intake and branch-duct run
- · Filter indicator signal
- · Easy-to-clean, washable filter (optional high-efficiency filter available requires multi-function casement)
- · Built-in condensate lift mechanism
- · Ideal for retail shops, classrooms, office spaces, conference centers, building lobbies, and more
- Multiple control options available:
 - o kumo cloud® smart device app for remote access
 - o Third-party interface options
 - o Wired or wireless controllers

OUTDOOR UNIT FEATURES

- · Variable speed INVERTER-driven compressor
- · Power receiver pre-charged with refrigerant volume for piping length up to 70 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: PLA-A12EA7 & PUZ-A12NKA7(-BS)

	Maximum Capacity	BTU/H	12,000
	Rated Capacity	BTU/H	12,000
	Minimum Capacity	BTU/H	5,800
	Maximum Power Input	W	730
Cooling at 95°F1	Rated Power Input	W	730
	Moisture Removal	Pints/h	1.2
	Sensible Heat Factor	1 11.03.1	0.89
	Power Factor [208V / 230V]	%	93.4 / 93.4
	Maximum Capacity	BTU/H	20,000
	Rated Capacity	BTU/H	14,000
	Minimum Capacity	BTU/H	5,500
Heating at 47°F2	Maximum Power Input	W	1,500
	Rated Power Input	W	830
	·	%	95.0 / 95.0
	Power Factor [208V / 230V]	BTU/H	
	Maximum Capacity		12,200
Heating at 17°F3	Rated Capacity	BTU/H	10,100
-	Maximum Power Input	W	1,200
	Rated Power Input	W	1,170
	SEER		27.0
	EER ¹		16.4
Efficiency	HSPF [IV]		12.8
,	COP at 47°F ²		4.94
	COP at 17°F at Maximum Capacity³		2.98
	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
Electrical	Voltage: Indoor - Outdoor, S2-S3	V DC	24
Liectifical	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Oudoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.26
	Fan Motor Type	·	DC Motor
	Airflow Rate at Cooling, Dry	CFM	420-460-490-530
	Airflow Rate at Cooling, Wet	CFM	380-420-450-490
	Airflow Rate at Heating, Dry	CFM	420-460-490-530
	Sound Pressure Level [Cooling]	dB[A]	27–28–29–30
	Sound Pressure Level [Heating]	dB[A]	27–28–29–30
Indoor Unit	Drain Pipe Size	In. [mm]	1-1/4 [32]
maddi diiit	Condensate Lift Mechanism, Maximum Distance	In. [mm]	33-7/16 [849]
	Coating on Heat Exchanger		
	External Finish Color		White Munsell 6.4Y 8.9/0.4
	Unit Dimensions	W x D x H: In. [mm]	33-1/16 // 37-13/32 x 33-1/16 // 37-13/32 x 10-5/32 // 1-9/16 [840 // 950 x 840 // 950 x 258 // 40]
	Package Dimensions	W x D x H: In. [mm]	35-9/16 // 39-6/16 x 34-5/16 // 38-3/16 x 15 // 4-12/16 [903 // 1,000 x 871 // 970 x 381 // 121]
	Unit Weight	Lbs. [kg]	46 // 11 [21 // 5]
	Package Weight	Lbs. [kg]	68 [31]
Indoor Unit Operating Temperature	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 66 DB, 61 WB
Range	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB
			11 557 00 55

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

Cooling (Indoor // Outdoor) ²Heating at 47°F (Indoor // Outdoor) ³Heating at 17°F (Indoor // Outdoor) 80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 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: PLA-A12EA7 & PUZ-A12NKA7(-BS)

	MOA		44.0
	MCA MOCP		11.0
		A A A CFM dB(A) dB(A) dB(A) A A A A A A A A A A A A A A A A A A	28
	Fan Motor Full Load Amperage		0.5
	Airflow Rate [Cooling / Heating]	A A A CFM dB(A) dB(A) A A A OZ. W x D x H: In. [mm] W x D x H: In. [mm] Lbs. [kg] Lbs. [kg] °F °F Lbs, oz Ft. [m] oz./Ft. [g/m] In.[mm] Ft. [m]	1590 / 1590
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating (BS Model only)
	Sound Pressure Level, Cooling ¹	dB(A)	44
	Sound Pressure Level, Heating ² dB(A)	46	
Outdoor Unit	Compressor Type	A A CFM dB(A) dB(A) dB(A) A A A OZ. W x D x H: In. [mm] 31 W x D x H: In. [mm] Lbs. [kg] Lbs. [kg] °F °F Lbs. oz Ft. [m] oz./ft. [g/m] In.[mm] In.[mm] Ft. [m]	INVERTER-driven twin rotary
Oddoor Offic	Compressor Model		SNB092FQCMC
	Compressor Rated Load Amps	Α	7
	Compressor Locked Rotor Amps	Α	12.0
	Compressor Oil [Type // Charge]	OZ.	FV50S // 12
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		N/A
	Unit Dimensions	W x D x H: In. [mm]	31-13/16 (2+7/16) x 11-13/16 x 24-13/16 [809 (+62) x 300 x 630]
	Package Dimensions	W x D x H: In. [mm]	37-1/16 x 16-3/16 x 27-7/16 [941 x 411 x 697]
	External Finish Color Base Pan Heater Unit Dimensions W x D x H Package Dimensions W x D x H Unit Weight Lbs. Package Weight Lbs. Cooling Air Temp [Maximum / Minimum]* °F	Lbs. [kg]	93 [42]
	Package Weight	Lbs. [kg]	104 [47]
	Cooling Air Temp [Maximum / Minimum]*		115 DB / 0 DB
Outdoor Unit Operating Temperature Range	Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / 12 DB, 14 WB
Range	Heating Thermal Lock-out / Re-start Temperatures**	A A CFM dB(A) dB(A) dB(A) A A OZ. W x D x H: In. [mm] W x D x H: In. [mm] Lbs. [kg] Lbs. [kg] °F °F Lbs, oz Ft. [m] Oz./Ft. [g/m] In.[mm] Ft. [m]	8 / 12
	Maximum Charge Quantity	Lbs, oz	4.0, 7.0
Refrigerant	Initial Charge Quantity	Ft. [m]	70.0 [21.0]
	Additional Refrigerant Charge Per Additional Piping Length	Lbs. [kg]	0.2 [19]
	Gas Pipe Size O.D. [Flared]	In.[mm]	1/2 [12.7]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	1/4 [6.35]
Piping	Maximum Piping Length		100 [30]
	Maximum Height Difference		100 [30]
	Maximum Number of Bends		15

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INDOOR UNIT ACCESSORIES: PLA-A12EA7

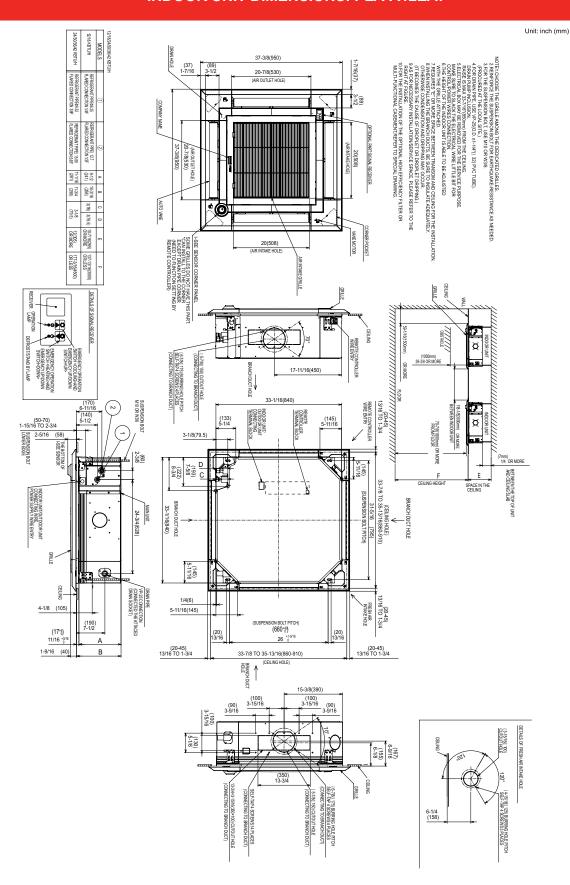
	3-Pin Connector	DAG 745AD
Control Interface	BACnet® and Modbus® Interface	PAC-715AD
		PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Lockdown bracket for remote controller	RCMKP1CB
	Remote Operation Adapter [‡]	PAC-SF40RM-E
	Thermostat Interface	PAC-US444CN-1
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
	Flush Mount Remote Temperature Sensor	PAC-USSEN002-FM-1
Remote Sensor	Flush Mount Temperature Sensor	PAC-USSEN001-FM-1
Remote Sensor	Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humitity sensor for kumo cloud®	PAC-USWHS003-TH-1
	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
Wired Remote Controller	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
	kumo touch™ RedLINK™ Wireless Controller	MHK2
	Wireless MA Receiver	PAR-FA32MA-W
Windows Barrata Controller	Wireless MA Remote Controller	PAR-FL32MA-E
Wireless Remote Controller	Wireless Remote Contoller	PAR-SL101A-E
	Wireless Signal Receiver	PAR-SA9FA-E
	Wireless Signal Receiver Panel	PAR-SR4LU-E
Casement	Multi-function Casement	PAC-SJ41TM-E
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	X86-003
Condensate	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Filter	High Efficiency Filter Element**	PAC-SH59KF-E
i-see Sensor® Panel	Grille with 3D i-see Sensor® (required)	PLP-41EAEU
Lineset	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-100 MLS141212T-15
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-13 MLS141212T-30
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	MLS141212T-50
Shutter Plate	Shutter Plate	MLS141212T-65
Space Panel	Space Panel	PAC-SJ37SP-E
NOTES:	opudo i diloi	PAC-SJ38AS-E

NOTES: *PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: PUZ-A12NKA7(-BS)

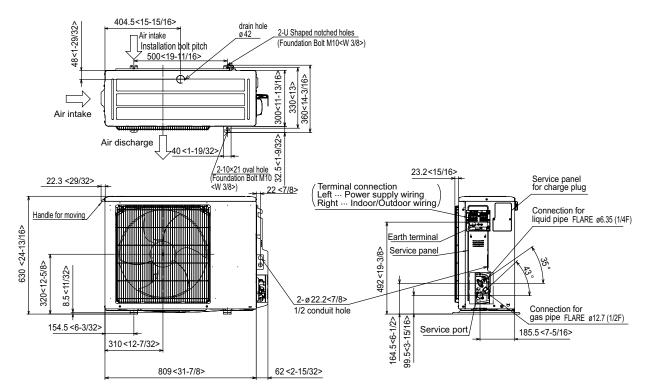
Air Outlet Guide	Air Outlet Guide	PAC-SJ07SG-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E
	Drain Pan	PAC-SG64DP-E
Control/Service Tool	Control/Service Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Drain Socket	Drain Socket	MAC-871DS
Hail Guards	Hail Guard	HG-A5
M-NET Converter	M-NET Converter	PAC-SJ96MA-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: 16" x 36" x 3"	ULTRILITE1
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-PA4
	Rear Wind Baffle	WB-RE4
	Side Advanced Wind Baffle	WB-SD4

INDOOR UNIT DIMENSIONS: PLA-A12EA7

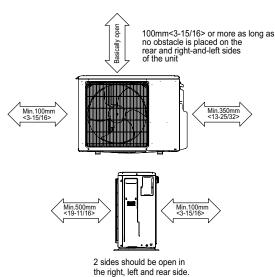


OUTDOOR UNIT DIMENSIONS: PUZ-A12NKA7(-BS)

Unit: mm<in>



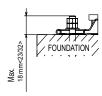
Free space around the outdoor unit (basic example)



FOUNDATION BOLTS

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

<Foundation bolt height>



PIPING-WIRING DIRECTION

Piping and wiring connection can be made from the rear direction only.

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



