

Job Name:

System Reference:

Date:

Indoor Unit:  
PEAD-A12AA7Outdoor Unit:  
 PUZ-A12NKA7  
 PUZ-A12NKA7-BS**INDOOR UNIT FEATURES**

- Unobtrusive ceiling-concealed design for short-run ductwork.
- Wide ranging external static pressure
- Built-in condensate lift mechanism
- Auto fan speed mode
- Optional FB Series filter boxes for easy access and service
- Ideal for residential homes, retail shopping centers, larger classrooms, office complexes, conference ballrooms, fitness centers, and more

**OUTDOOR UNIT FEATURES**

- Variable speed INVERTER-driven compressor
- Suction accumulator pre-charged with refrigerant volume for piping length up to 100 ft (70 ft. for A12/18/24/30)
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart due to bypass valve make it ideal for equipment cooling applications, such as data centers
- Superior energy and operational efficiency

# SPECIFICATIONS: PEAD-A12AA7 & PUZ-A12NKA7(-BS)

Model Number	Indoor Unit		PEAD-A12AA7
	Outdoor Unit		PUZ-A12NKA7
			PUZ-A12NKA7-BS
Cooling <sup>1</sup>	Maximum Capacity	Btu/h	12,000
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	5,000
	Maximum Power Input	W	920
	Rated Power Input	W	920
	Moisture Removal	Pints/h	1.80
	Sensible Heat Factor		0.83
	Power Factor	%	90.9
Heating at 47°F <sup>2</sup>	Maximum Capacity	Btu/h	18,000
	Rated Capacity	Btu/h	14,000
	Minimum Capacity	Btu/h	5,800
	Maximum Power Input	W	1,520
	Rated Power Input	W	1,030
	Power Factor	%	91.4
Heating at 17°F <sup>3</sup>	Maximum Capacity	Btu/h	10,500
	Rated Capacity	Btu/h	8,700
	Maximum Power Input	W	1,130
	Rated Power Input	W	1,100
Efficiency	SEER		21.1
	EER *1		13.0
	HSPF (IV)		10.2
	COP at 47°F <sup>2</sup>		3.98
	COP at 17°F <sup>3</sup>		2.31
	ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)		Yes
Electrical	Voltage, Phase, Frequency		208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range	V AC	198 – 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote controller	V DC	12
	Recommended Fuse/Breaker Size	A	15
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	1.45
	Fan Motor Full Load Amperage	A	1.16
	Fan Motor Output	W	85
	Airflow Rate, Dry	CFM	353-424-494
	Airflow Rate, Wet	CFM	313-384-454
	External Static Pressure	in. WG	0.14-0.20-0.28-0.40-0.60

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Model Number	Indoor Unit		PEAD-A12AA7	
	Outdoor Unit		PUZ-A12NKA7	
			PUZ-A12NKA7-BS	
	Sound Pressure Level	dB(A)	28-30-34	
	Drain Pipe Size	In. (mm)	1-1/4 (32)	
	Condensate Lift Mechanism, Max. Distance	In. (mm)	27-9/16 (700)	
	Heat Exchanger Type		Plate fin coil	
	External Finish Color		Galvanized	
	Unit Dimensions	W: In. (mm)		35-7/16 (900)
		D: In. (mm)		28-7/8 (732)
		H: In. (mm)		9-7/8 (250)
	Package Dimensions	W: In.		45-5/16
		D: In.		34-11/16
H: In.			13-7/16	
Unit Weight	Lbs. (kg)		58 (26)	
Package Weight	Lbs.		69	
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	11	
	MOCP	A	28	
	Fan Motor Full Load Amperage	A	0.5	
	Fan Motor Output	W	46	
	Airflow Rate	CFM	1,590	
	Refrigerant Control		Electronic Expansion Valve	
	Defrost Method		Reverse Cycle	
	Heat Exchanger Type		Cross fin	
	Sound Pressure Level, Cooling <sup>1</sup>	dB(A)	44	
	Sound Pressure Level, Heating <sup>2</sup>	dB(A)	46	
	Compressor Type		INVERTER-driven twin rotary	
	Compressor Model		SNB092FNCM	
	Compressor Rated Load Amps	A	7	
	Compressor Locked Rotor Amps	A	12	
	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: In. (mm)		31-13/16 + 7/16 (809+62)
		D: In. (mm)		11-3/16 (300)
		H: In. (mm)		24-13/16 (630)
Package Dimensions	W: In.		37-1/16	
	D: In.		16-3/16	
	H: In.		27-7/16	

## SPECIFICATIONS: PEAD-A12AA7 & PUZ-A12NKA7(-BS)

Model Number	Indoor Unit		PEAD-A12AA7
	Outdoor Unit		PUZ-A12NKA7
			PUZ-A12NKA7-BS
	Unit Weight	Lbs. (kg)	93 (42)
	Package Weight	Lbs. (kg)	104 (47)
Outdoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / 0* DB
	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB, 59 WB / 12 DB, 10 WB
	Thermal Lock-out / Re-start Temperatures**	°F	8 / 12 DB
Refrigerant	Type		R410A
	Charge	Lbs, oz	4 lbs, 7 oz
Piping	Gas Pipe Size O.D. (Flared)	In. (mm)	1/2 (12.7)
	Liquid Pipe Size O.D. (Flared)	In. (mm)	1/4 (6.35)
	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)	<sup>1</sup> Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	<sup>2</sup> Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	<sup>3</sup> Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB
Conditions	<sup>4</sup> Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB

\*Wind baffles required to operate below 23°F DB in cooling mode. PUZ with wind baffle: 0°F - 115°F.

\*\*System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

### 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 condenser coil to protect it against airborne contaminants.

## ACCESSORIES: PEAD-A12AA7

Filter Box with MERV 13 Filters	□ FBM2-2
Signal Receiver	□ PAR-SA9CA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Wireless Remote Receiver	□ PAR-FA32MA-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller	□ PAR-33MAA
Simple MA Controller	□ PAC-YT53CRAU
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
Wireless Interface	□ PAC-USWHS002-WF-1
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and Modbus Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Connector cable for remote display	□ PAC-SA88HA-EP
Connector for CN32 (remote on/off)	□ PAC-SE55RA-E
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) <sup>1</sup>	□ PAC-SF40RM-E
Blue Diamond Sensor Extension Cable—15 Ft.	□ C13-103
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - White	□ TAZ-MS303W

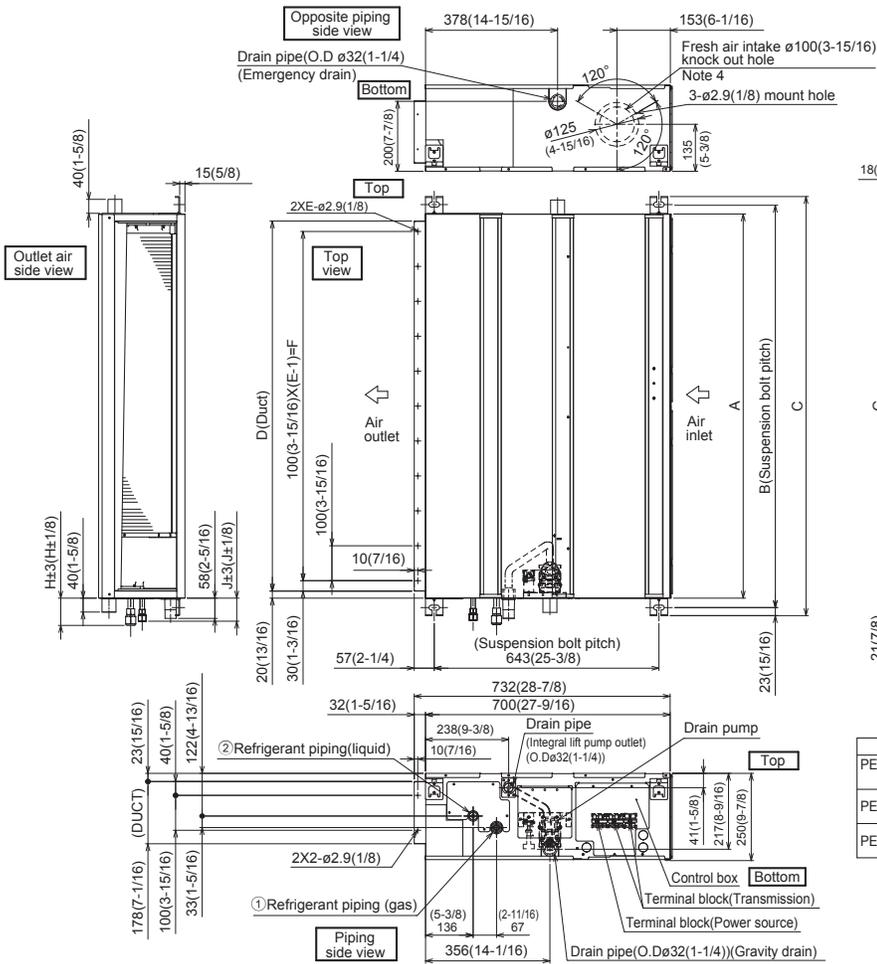
<sup>1</sup> Unable to use with wireless remote controller

## ACCESSORIES: PUZ-A12NKA7(-BS)

Air Outlet Guide	<input type="checkbox"/> PAC-SJ07SG-E
Front Wind Baffle	<input type="checkbox"/> WB-PA4
Side Advanced Wind Baffle	<input type="checkbox"/> WB-SD4
Drain Socket	<input type="checkbox"/> PAC-SJ08DS-E
Centralized Drain Pan	<input type="checkbox"/> PAC-SG63DP-E
M-NET Converter	<input type="checkbox"/> PAC-SJ19MA-E
M-NET Converter	<input type="checkbox"/> PAC-SJ96MA-E
Control/Service Tool	<input type="checkbox"/> PAC-SK52ST
Hail Guard	<input type="checkbox"/> HG-A5
Condensing Unit Mounting Pad 16" x 36" x 3"	<input type="checkbox"/> ULTRILITE1
Outdoor Unit Stand—12" High	<input type="checkbox"/> QSMS1201M
Outdoor Unit Stand—18" High	<input type="checkbox"/> QSMS1801M
Outdoor Unit Stand—24" High	<input type="checkbox"/> QSMS2401M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel	<input type="checkbox"/> QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	<input type="checkbox"/> QSWBSS
1/4" x 1/2" x 15' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-15
1/4" x 1/2" x 30' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-30
1/4" x 1/2" x 50' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-50
1/4" x 1/2" x 65' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-65
1/4" x 1/2" x 100' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-100

# DIMENSIONS: PEAD-A12AA7 & PUZ-A12NKA7 (-BS)

## PEAD-A12AA7



- Note 1. Use an M10 screw for the suspension bolt (field supply).  
 2. Keep the service space for maintenance at the bottom.  
 3. This drawing is for PEAD-A24-30-36-42 AA7 models, which have 2 fans. PEAD-A09-12-15-18AA7 models have 1 fan.  
 4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.  
 5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.

Unit:mm(in.)

Model	J	① Gas pipe	② Liquid pipe
PEAD-A09AA7	62 (2-1/2)	$\phi 9.52$ (3/8)	$\phi 6.35$ (1/4)
PEAD-A12, 15, 18AA7	62 (2-1/2)	$\phi 12.7$ (1/2)	$\phi 6.35$ (1/4)
PEAD-A24,30AA7	66 (2-5/8)	$\phi 15.88$ (5/8)	$\phi 9.52$ (3/8)
PEAD-A36,42AA7			

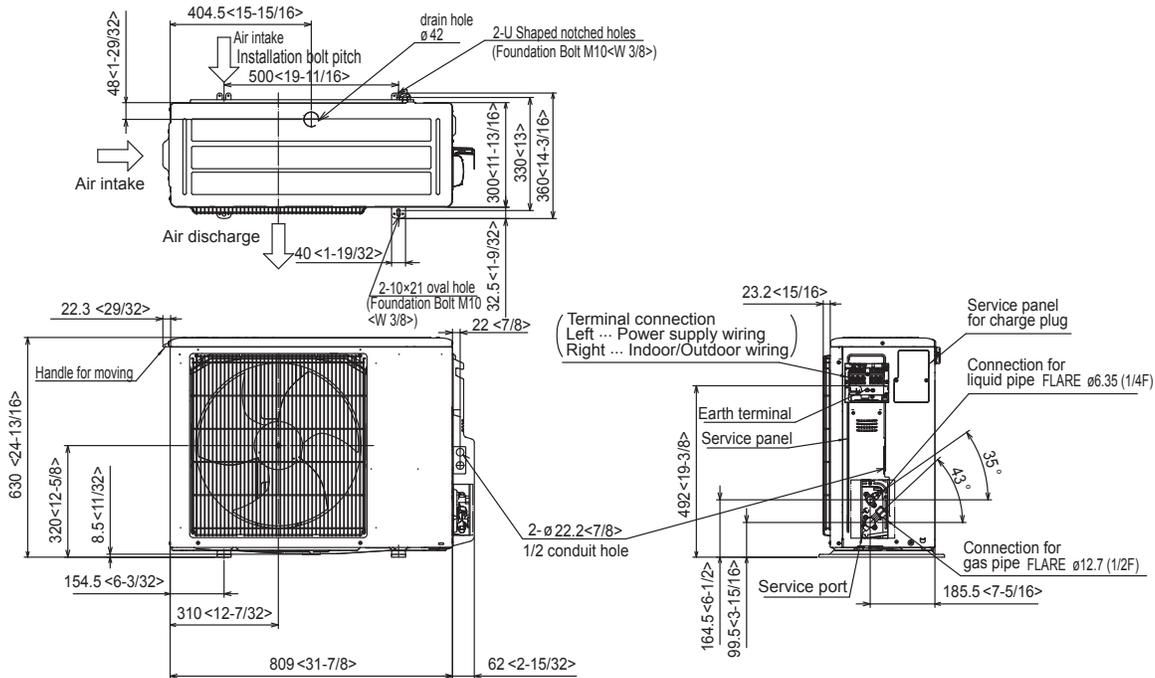
Unit:mm(in.)

Model	A	B	C	D	E	F	G	H
PEAD-A09,12, 15,18AA7	900 (35-7/16)	954 (37-9/16)	1000 (39-3/8)	860 (33-7/8)	9	800 (31-1/2)	858 (33-13/16)	72 (2-7/8)
PEAD-A24,30AA7	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11	1000 (39-3/8)	1058 (41-11/16)	78 (3-1/8)
PEAD-A36,42AA7	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14	1300 (51-3/16)	1358 (53-1/2)	

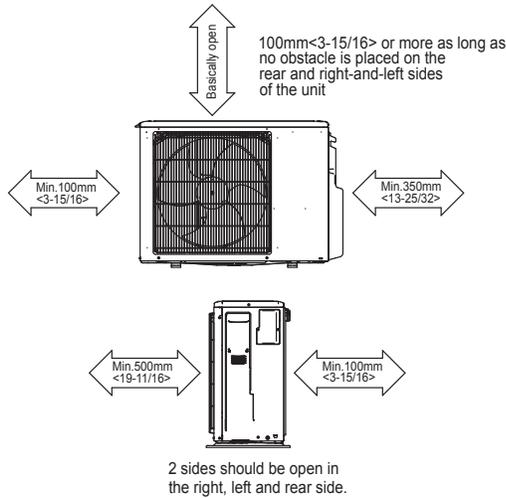
# DIMENSIONS: PEAD-A12AA7 & PUZ-A12NKA7 (-BS)

## PUZ-A12NKA7(-BS)

Unit: mm<in>



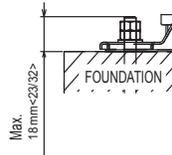
### Free space around the outdoor unit (basic example)



### 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.



COOLING & HEATING

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

FORM# PEAD-A12AA7 / PUZ-A12NKA7(-BS) - 201810



Specifications are subject to change without notice.

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