

**PKA-A18HA7 & PUY-A18NKA7(-BS)**  
**18,000 BTU/H WALL MOUNT**  
**18,000 BTU/H COOLING ONLY OUTDOOR**



Job Name:

System Reference:

Date:



Indoor Unit.....PKA-A18HA7

Outdoor Unit

Standard Model.....PUY-A18NKA7

Seacoast Model.....PUY-A18NKA7-BS



**INDOOR UNIT FEATURES**

- Sleek, compact design
- Simple installation
- Vane setting for air flow direction control
- Auto fan speed mode
- Ideal for spaces such as server rooms, daycare centers, classrooms, churches, small offices, and more
- 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 70 ft
- Low ambient cooling down to -40°F providing 100% capacity (only for PUY models with wind baffles installed)
- 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: PKA-A18HA7 & PUY-A18NKA7(-BS)

Cooling at 95°F <sup>1</sup>	Maximum Capacity	BTU/H	18,000
	Rated Capacity	BTU/H	18,000
	Minimum Capacity	BTU/H	8,000
	Maximum Power Input	W	1,820
	Rated Power Input	W	1,820
	Moisture Removal	Pints/h	5.2
	Sensible Heat Factor		0.68
Efficiency	SEER		18.5
	EER <sup>1</sup>		9.9
	ENERGY STAR® Certified		No
Electrical	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	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.33
	Fan Motor Output	W	30
	Airflow Rate at Cooling, Dry	CFM	320–370–425
	Airflow Rate at Cooling, Wet	CFM	290–335–380
	Airflow Rate at Heating, Dry	CFM	320–370–425
	Sound Pressure Level [Cooling]	dB[A]	36–40–43
	Sound Pressure Level [Heating]	dB[A]	36–40–43
	Drain Pipe Size	In. [mm]	5/8 [16]
	Coating on Heat Exchanger		—
	External Finish Color		White Munsell 1.0Y 9.2/0.2
	Unit Dimensions	W x D x H: In. [mm]	35-3/8 x 9-13/16 x 11-5/8 [898 x 249 x 295]
	Package Dimensions	W x D x H: In. [mm]	39-3/8 x 15-3/4 x 13-3/8 [1000 x 400 x 340]
	Unit Weight	Lbs. [kg]	29 [13]
	Package Weight	Lbs. [kg]	33 [15]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	95 DB, 71 WB / 67 DB, 57 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	80 DB / 70 DB
Outdoor Unit	MCA	A	11.0
	MOCP	A	28
	Fan Motor Full Load Amperage	A	0.5
	Fan Motor Output	W	46
	Airflow Rate	CFM	1590
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating (BS Model only)
	Sound Pressure Level, Cooling <sup>1</sup>	dB(A)	44
	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		SNB130FNCM2
	Compressor Rated Load Amps	A	7.0
	Compressor Locked Rotor Amps	A	12.0
	Compressor Oil Type // Charge	oz.	FV50S // 16
	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 (+7/16) x 11-3/16 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 670]	
Unit Weight	Lbs. [kg]	99 [44]	
Package Weight	Lbs. [kg]	110 [50]	
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / -40 DB

**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 // 5 DB, 4 WB

<sup>5</sup>Heating at -4°F (Indoor // Outdoor)

°F 70 DB, 60 WB // -4 DB, -5 WB

<sup>6</sup>Heating at -5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // -5 DB, -6 WB

<sup>7</sup>Heating at -13°F (Indoor // Outdoor)

°F 70 DB, 60 WB // -13 DB, -14 WB

\*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.

» Cooling-only system with wind baffle: -40°F - 115°F.

» 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.

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Refrigerant	Type		R410A
	Charge	Lbs, oz	4, 14.0
	Chargeless Piping Length	Ft. [m]	70.0 [20.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.1 [7.5]
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]	165 [50]
	Maximum Height Difference	Ft. [m]	100 [30]
	Maximum Number of Bends		15

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## INDOOR UNIT ACCESSORIES: PKA-A18HA7

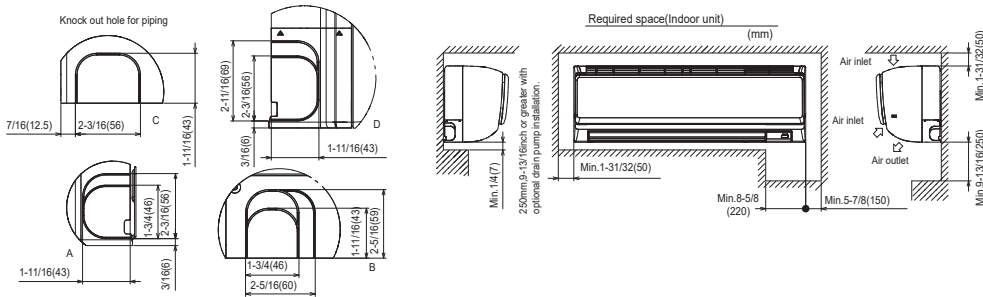
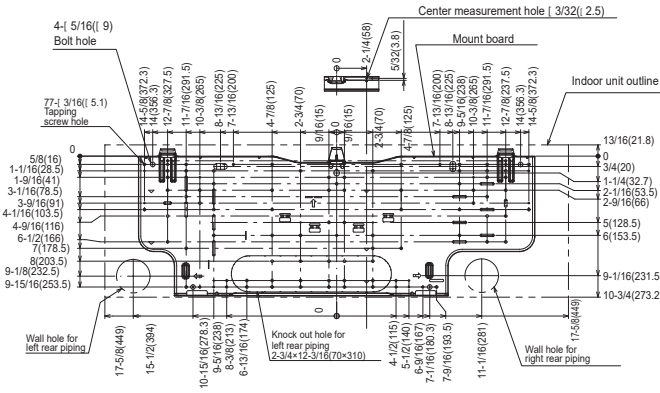
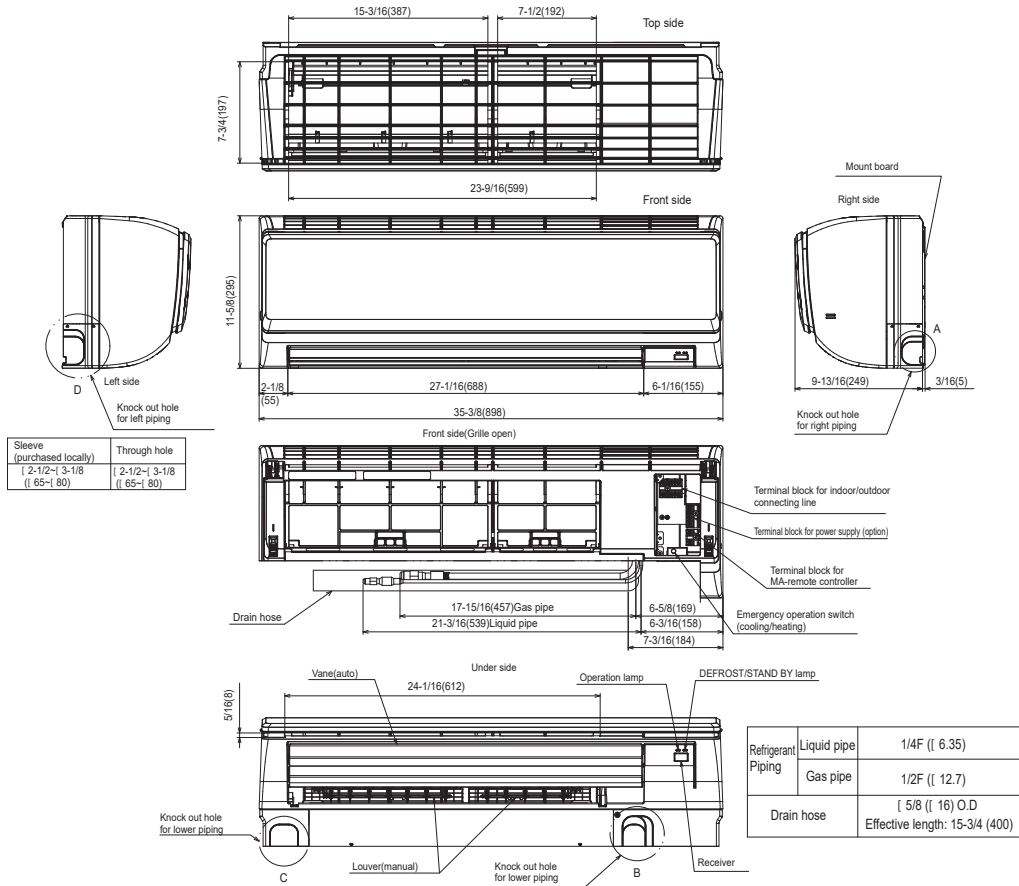
Control Interface	3-Pin Connector	<input type="checkbox"/> PAC-715AD
	BACnet® and Modbus Interface	<input type="checkbox"/> PAC-UKPRC001-CN-1
	IT Extender	<input type="checkbox"/> PAC-WHS01IE-E
	kumo station® for kumo cloud®	<input type="checkbox"/> PAC-WHS01HC-E
	Lockdown bracket for remote controller	<input type="checkbox"/> RCMKP1CB
	Thermostat Interface	<input type="checkbox"/> PAC-US444CN-1
	USNAP Adapter	<input type="checkbox"/> PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	<input type="checkbox"/> PAC-USWHS002-WF-2
Remote Sensor	Flush Mount Temperature Sensor	<input type="checkbox"/> PAC-USSEN001-FM-1
	Remote Temperature Sensor surface mount	<input type="checkbox"/> PAC-SE41TS-E
	Wireless temperature and humidity sensor for kumo cloud®	<input type="checkbox"/> PAC-USWHS003-TH-1
Wired Remote Controller	Simple MA Remote Controller†	<input type="checkbox"/> PAC-YT53CRAU-J
	Touch MA Controller†	<input type="checkbox"/> PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	<input type="checkbox"/> MHK2
	Wireless MA Receiver	<input type="checkbox"/> PAR-FA32MA-W
	Wireless MA Remote Controller	<input type="checkbox"/> PAR-FL32MA-E
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	<input type="checkbox"/> X87-721
	Blue Diamond (MicroBlue) Mini Condensate Pump (110/208/230V) up to 18,000 BTU/H	<input type="checkbox"/> X85-003
	Blue Diamond Sensor Extension Cable — 15 Ft.	<input type="checkbox"/> C13-103
	Drain Pan Level Sensor/Control	<input type="checkbox"/> SS610E
	Fascia Kit for MicroBlue Pump, mounts the MicroBlue and sensor directly beneath indoor unit	<input type="checkbox"/> T18-016
	Sauermann Condensate Pump	<input type="checkbox"/> SI30-230
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	<input type="checkbox"/> TAZ-MS303
	(30A/600V/UL) [fits 2" X 4" utility box] - White	<input type="checkbox"/> TAZ-MS303W
Lineset	100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-100
	15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-15
	30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-30
	50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-50
	65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	<input type="checkbox"/> MLS141212T-65

## OUTDOOR UNIT ACCESSORIES: PUY-A18NKA7(-BS)

Air Outlet Guide	Air Outlet Guide	<input type="checkbox"/> PAC-SJ07SG-E
Centralized Drain Pan	Centralized Drain Pan	<input type="checkbox"/> PAC-SG63DP-E
Control/Service Tool	Control/Service Tool	<input type="checkbox"/> PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	<input type="checkbox"/> M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	<input type="checkbox"/> M21EC1397
Drain Socket	Drain Socket	<input type="checkbox"/> PAC-SJ08DS-E
Hail Guards	Hail Guard	<input type="checkbox"/> HG-A5
M-NET Converter	M-NET Converter	<input type="checkbox"/> PAC-SJ96MA-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	<input type="checkbox"/> S144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	<input type="checkbox"/> S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	<input type="checkbox"/> S164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	<input type="checkbox"/> S164-50
Mounting Pad	Condensing Unit Mounting Pad: 16" x 36" x 3"	<input type="checkbox"/> ULTRILITE1
Stand	18" Single Fan Stand	<input type="checkbox"/> QSMS1801M
	24" Single Fan Stand	<input type="checkbox"/> QSMS2401M
	Condenser Wall Bracket	<input type="checkbox"/> QSWB2000M-1
	Condenser Wall Bracket -Stainless Steel Finish	<input type="checkbox"/> QSWBSS
	Outdoor Unit Stand — 12" High	<input type="checkbox"/> QSMS1201M
Wind Baffle	Front Wind Baffle	<input type="checkbox"/> WB-PA4
	Rear Wind Baffle	<input type="checkbox"/> WB-RE4
	Side Advanced Wind Baffle	<input type="checkbox"/> WB-SD4

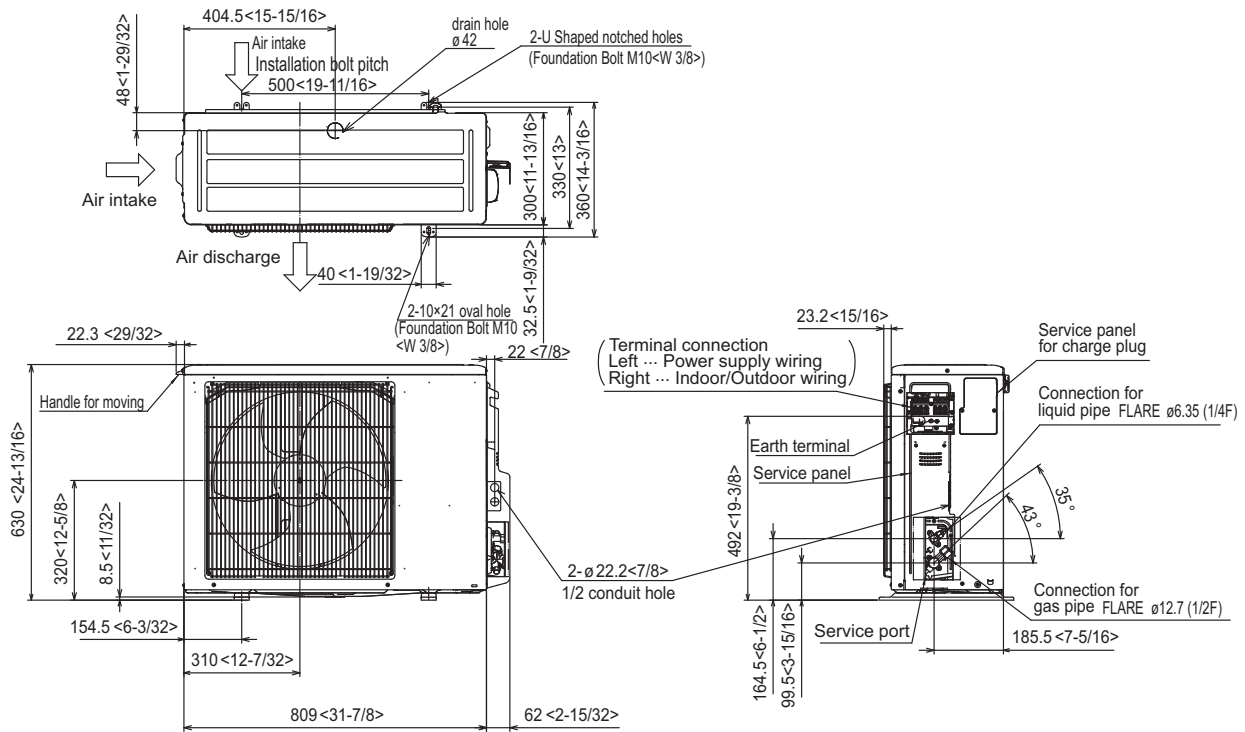
# INDOOR UNIT DIMENSIONS: PKA-A18HA7

Unit: inch (mm)

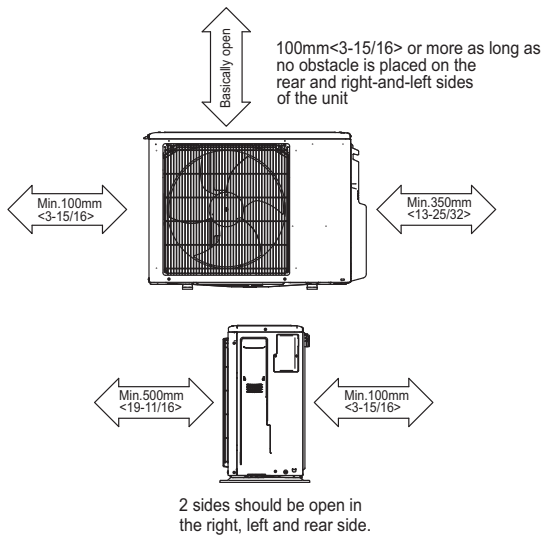


# OUTDOOR UNIT DIMENSIONS: PUY-A18NKA7(-BS)

Unit: mm<in>



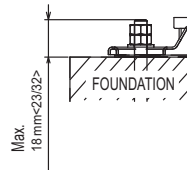
## Free space around the outdoor unit (basic example)



## 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.