

P-SERIES

SUBMITTAL DATA: PKA-A36KA7 & PUZ-A36NKA7(-BS) 36,000 BTU/H WALL-MOUNTED HEAT PUMP SYSTEM



Job Name:

System Reference:

Date:

Indoor Unit:
PKA-A36KA7



Outdoor Unit:
☐ PUZ-A36NKA7
☐ PUZ-A36NKA7-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

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: PKA-A36KA7 & PUZ-A36NKA7(-BS)

Cooling ¹	Maximum Capacity	BTU/H	36,000
	Rated Capacity	BTU/H	36,000
	Minimum Capacity	BTU/H	16,000
	Maximum Power Input	W	3,330
	Rated Power Input	W	3,330
	Moisture Removal	Pints/h	9.70
	Sensible Heat Factor		0.70
	Power Factor	%	96.50
Heating at 47°F ²	Maximum Capacity	BTU/H	40,000
	Rated Capacity	BTU/H	38,000
	Minimum Capacity	BTU/H	18,200
	Maximum Power Input	W	3,700
	Rated Power Input	W	2,460
	Power Factor	%	95.50
Heating at 17°F ³	Maximum Capacity	BTU/H	25,900
	Rated Capacity	BTU/H	22,400
	Maximum Power Input	W	2,670
	Rated Power Input	W	2,610
Efficiency	SEER		18.80
	EER ¹		10.80
	HSPF (IV)		9.20
	COP at 47°F ²		4.52
	COP at 17°F ³		2.51
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
	Short-circuit Current Rating (SCCR)	5	12
	Recommended Fuse/Breaker Size (Outdoor)	A	30
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	1.00
	Fan Motor Full Load Amperage	A	0.57
	Fan Motor Output	W	56
	Airflow Rate, Dry	CFM	705-810-920
	Airflow Rate, Wet	CFM	635-730-830
	External Static Pressure	in.WG	n/a
	Sound Pressure Level	dB(A)	43-46-49
	Drain Pipe Size	In. (mm)	5/8 (16)
	Condensate Lift Mechanism, Max. Distance	Ft. (m)	n/a
	Heat Exchanger Type		Plate fin coil
	External Finish Color		White Munsell 1.0Y 9.2/0.2

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	Unit Dimensions	W: In. (mm)	46-1/16 (1170)
		D: In. (mm)	11-5/8 (295)
		H: In. (mm)	14-3/8 (365)
	Package Dimensions	W: In.	51
		D: In.	18-8/16
		H: In.	14-4/16
	Unit Weight	Lbs. (kg)	46 (21)
	Package Weight	Lbs.	53
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	25
	MOCP	A	31
	Fan Motor Full Load Amperage	A	0.5 + 0.5
	Fan Motor Output	W	74 + 74
	Airflow Rate	CFM	3,880
	Refrigerant Control		Electronic Expansion Valve
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Cross fin
	Sound Pressure Level, Cooling ¹	dB(A)	52
	Sound Pressure Level, Heating ²	dB(A)	53
	Compressor Type		INVERTER-driven twin rotary
	Compressor Model		MNB33FBRMC-L
	Compressor Rated Load Amps	A	8
	Compressor Locked Rotor Amps	A	13
	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: In. (mm)	1050 [41-5/16]
		D: In. (mm)	330 + 30 [13+1-3/16]
		H: In. (mm)	1338 [52-11/16]
	Package Dimensions	W: In.	42-15/16
		D: In.	17-11/16
		H: In.	56-4/16
	Unit Weight	Lbs. (kg)	214 (97)
	Package Weight	Lbs. (kg)	245 (111)
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 / -4 DB, -4 WB
	Thermal Lock-out / Re-start Temperatures**	°F	-8 / -4 DB
Refrigerant	Type		R410A
	Charge	Lbs, oz	10 lbs, 6 oz
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	5/8 (15.88)

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	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

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	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

*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: PKA-A36KA7

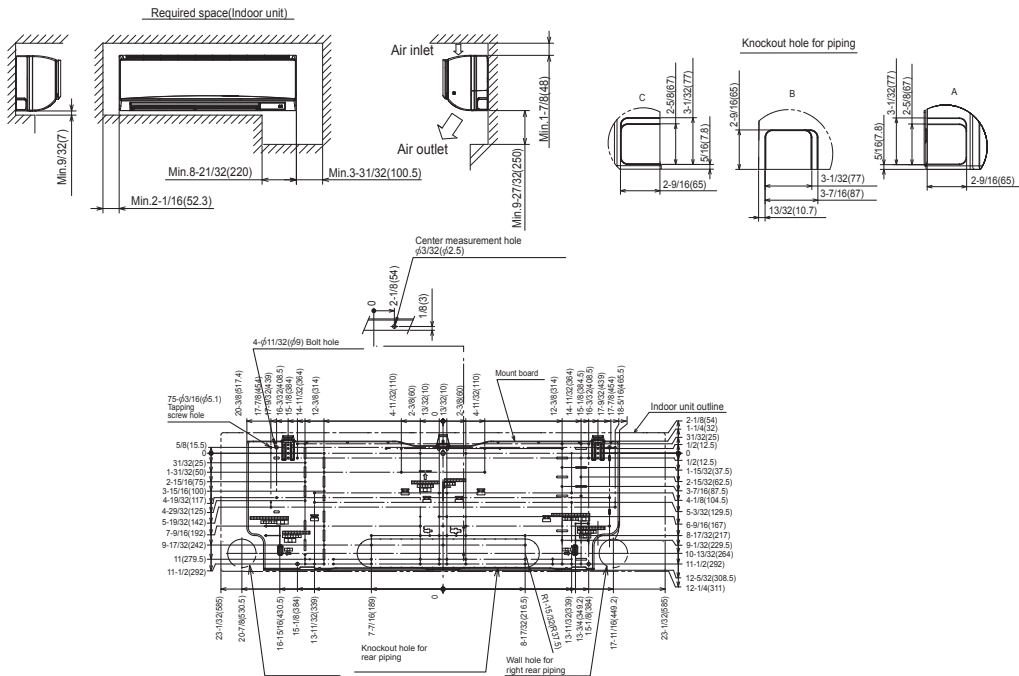
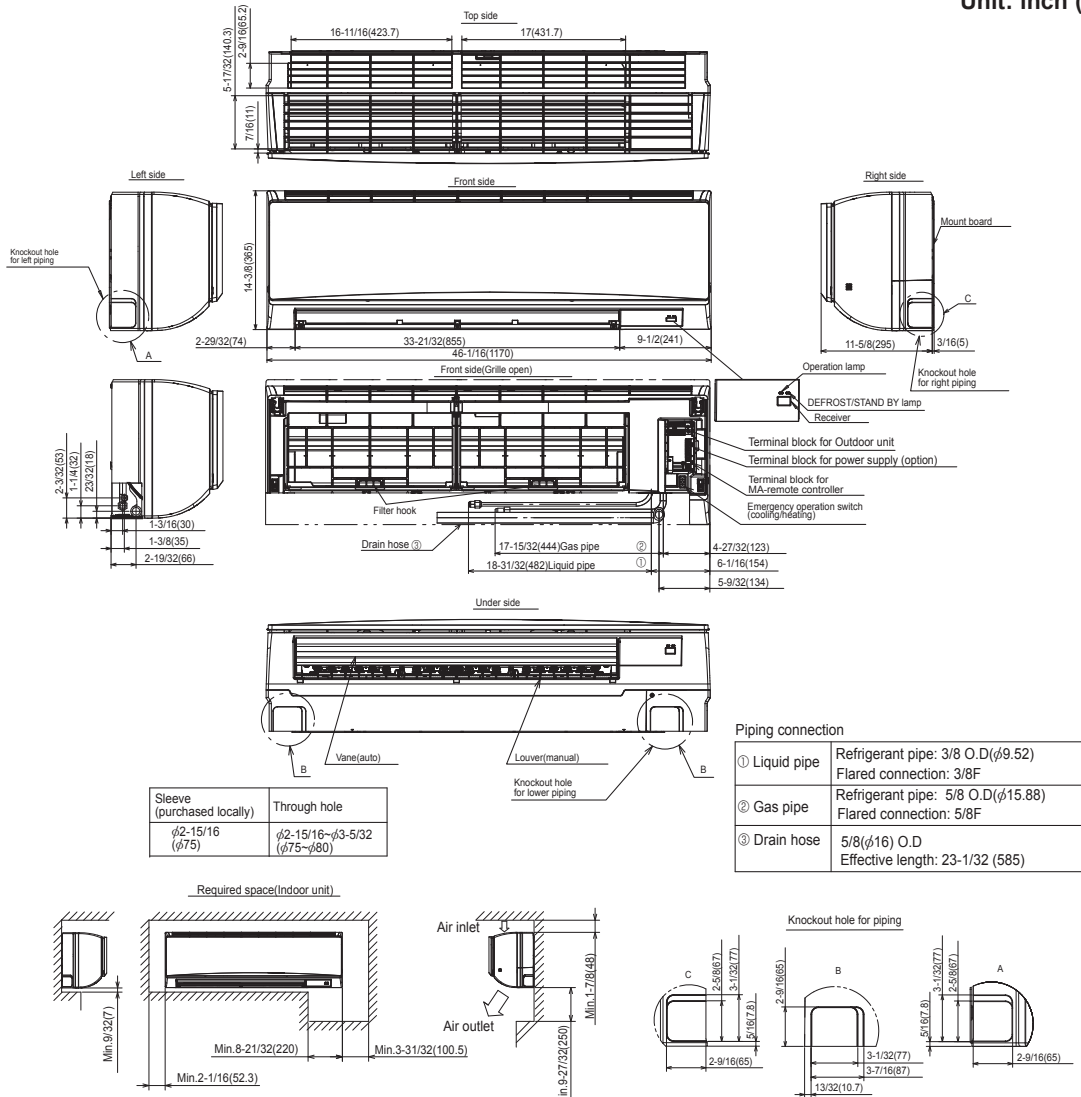
Wireless Remote Receiver	□ PAR-FA32MA-W
Wireless Remote Receiver	□ PAR-FA32MA-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller	□ PAR-40MAAU
Simple MA Controller	□ PAC-YT53CRAU-J
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Lockdown Bracket for Wireless, Hand-held, Remote Controller	□ RCMKP1CB
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
Wireless Interface 2	□ PAC-USWHS002-WF-2
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
Connector for CN32 (remote on/off)	□ PAC-SE55RA-E
External Drain Pump	□ PAC-KE07DM-E
External Drain Pump	□ PAC-SH94DM-E
Blue Diamond Sensor Extension Cable—15 Ft.	□ C13-103
Mini Condensate Pump—230V application	□ SI30-230
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 Sensor	□ SS610E
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

ACCESSORIES: PUZ-A36NKA7(-BS)

Twinning Distribution Pipe (50:50)	□ MSDD-50TR-E
Air Outlet Guide	□ PAC-SH96SG-E (two pieces are required)
Front Wind Baffle	□ WB-PA3 (two pieces are required)
Side Advanced Wind Baffle	□ WB-SD6
Rear Advanced Wind Baffle	□ WB-RE6
Drain Socket	□ PAC-SG61DS-E
M-NET Converter	□ PAC-SJ85MA-E
M-NET Converter	□ PAC-SJ95MA-E
Control/Service Tool	□ PAC-SK52ST
Condensing Unit Mounting Pad 24" x 42" x 3"	□ ULTRILITE2
Outdoor Unit Stand—12" High	□ QSMS1202M
Outdoor Unit Stand—18" High	□ QSMS1802M
Outdoor Unit Stand—24"High	□ QSMS2402M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	□ QSWBSS
3/8" x 5/8" x 10' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
3/8" x 5/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
3/8" x 5/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
3/8" x 5/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
3/8" x 5/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
3/8" x 5/8" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100

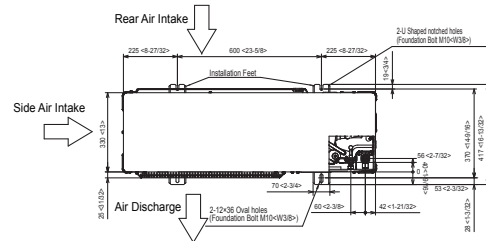
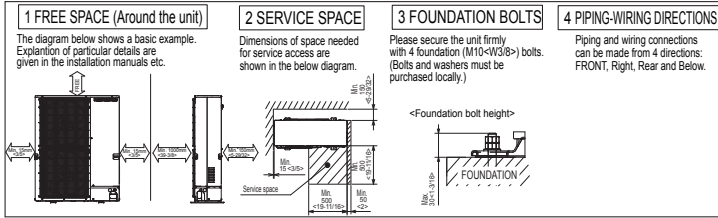
DIMENSIONS: PKA-A36KA7

Unit: inch (mm)



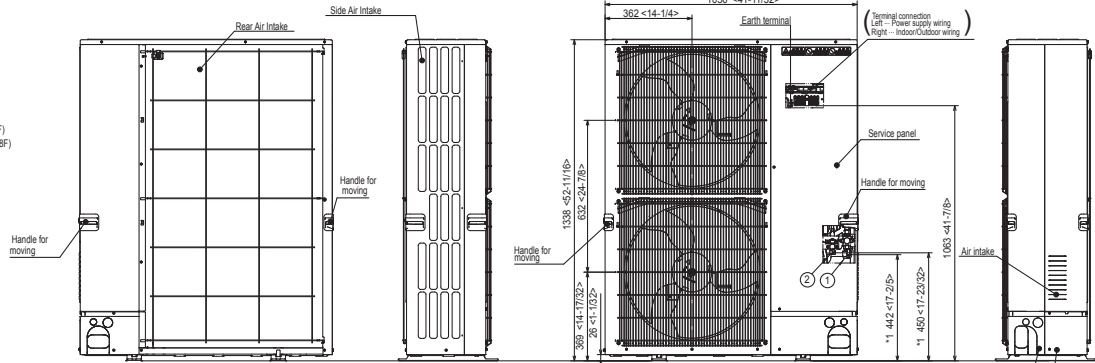
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Unit: mm<in>

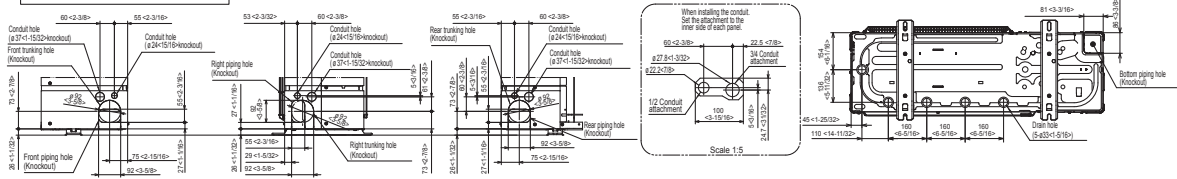


Example of Notes

- ① Refrigerant GAS pipe connection (FLARE) #15.89/5/8F
- ② Refrigerant LIQUID pipe connection (FLARE) #9.52/3/8F
- * -- Indication of STOP VALVE connection location.



Piping Knockout Hole Details



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FORM# PKA-A36KA7 / PUZ-A30NKA7(-BS) - 202003