

PCA-AK42NL & PUY-AK42NL
42,000 BTU/H CEILING-SUSPENDED INDOOR UNIT
42,000 BTU/H COOLING ONLY OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PCA-AK42NL
OUTDOOR Unit ... PUY-AK42NL

INDOOR UNIT FEATURES

- Wi-Fi Optional: A Wireless Interface Adapter can be ordered as an accessory for field installation.
- Swing Mode: An indoor unit with this capability can move air throughout the room like an oscillating fan.
- Horizontal Vane Control: Horizontal Vane Control allows the indoor unit vanes to be moved left and right to provide even temperatures throughout a space.
- Four Speed Fan: Adjust the fan between four speed settings to optimal comfort.
- Ventilation Air Intake: A duct opening is provided, which allows outside air to be brought inside so it can be heated or cooled.
- Dual Set Point: The controller can be used to program two different set points. The unit will automatically adjust between the set points for optimum comfort.
- Auto Vane Control: Auto Vane Control directs outlet vanes to move left, right, up, and down. This airflow control provides even temperatures throughout a space.

OUTDOOR UNIT FEATURES

- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Blue Fin Coating: Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- Seacoast Protection: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.
- Low Ambient Cooling: Low ambient cooling down to -40°F providing 100% capacity with front, side and rear wind baffle kit
- Low Ambient Cooling: Low ambient cooling down to 0°F providing 100% capacity with front wind baffle kit

SPECIFICATIONS: PCA-AK42NL & PUY-AK42NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	42500
	Rated Capacity	Btu/h	42000
	Minimum Capacity	Btu/h	13600
	Maximum Power Input	W	3900
	Rated Power Input	W	3820
	Moisture Removal	Pints/h	15.40
	Sensible Heat Factor		0.60
	Power Factor [208V / 230V]	%	97 / 97
Efficiency	SEER2		20.40
	EER2 ¹		10.90
	ENERGY STAR® Certified		No
Electrical	Voltage, Phase, Frequency	V AC / V AC , Ø , Hz	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	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	35
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	2
	Breaker Size	A	15
	Fan Motor Output	W	160
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	740 , 810 , 885 , 955
	Airflow Rate at Cooling, Wet	CFM	810 , 885 , 955 , 1025
	Sound Pressure Level [Cooling]	dB (A)	39 , 41 , 43 , 45
	Dual Barrier Coating on Fan		No
	External Finish Color		6.4Y 8.9/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	63 x 26-3/4 x 9-1/16 [1600 x 680 x 230]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	65-3/4 x 29-15/16 x 13-13/16 [1670 x 760 x 350]
	Unit Weight	lbs [kg]	86 [39]
	Package Weight	lbs [kg]	101 [46]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 66 , 59
Outdoor Unit	MCA	A	34
	MOCP	A	56
	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3910
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	52
	Compressor Type		Twin Rotary
	Compressor Model		MRB36FEGMC
	Compressor Oil [Type // Charge]	// oz	RM68EH // 45
	External Finish Color		Munsell 3Y 7.8/1.1
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	41-11/32 x 14 x 52-43/64 [1050 x 355 x 1338]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	42-15/16 x 17-3/4 x 58-5/16 [1090 x 450 x 1480]
	Unit Weight	lbs [kg]	224 [102]
	Package Weight	lbs [kg]	251 [114]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 23
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	N/A / N/A
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	9 , 14
	Maximum Pre-Charged Piping Length	ft [m]	100 [30]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.6
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
	Maximum Piping Length	ft [m]	225 [69]

Notes

¹Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Wind baffles required to operate below 23°F DB in cooling mode. • Cooling-only system with advanced wind baffle: -40°F - 115°F. • Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):

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Piping	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15
Notes ¹ Cooling at 95°F (Indoor // Outdoor) °F 80 DB, 67 WB // 95 DB, 75 WB *Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • Wind baffles required to operate below 23°F DB in cooling mode. • Cooling-only system with advanced wind baffle: -40°F - 115°F. • Refer to wind baffle documentation for further information. **Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures):			

INDOOR UNIT ACCESSORIES: PCA-AK42NL

Condensate	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	☐ X88-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	☐ X87-711
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
Control Interface	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
Disconnect Switch	30A600VUL fits 2 X 4 utility box - White	☐ TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	☐ MPLS385812T-100
	3/8 x 5/8 Lineset Twin-Tube Insulation - 50 feet	☐ MPLS385812T-50
	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	☐ MPLS385812T-10
	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	☐ MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	☐ MPLS385812T-65
	3/8 x 5/8 Lineset Twin-Tube Insulation - 30 feet	☐ MPLS385812T-30
Remote Sensor	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
	Wall Mount Remote Temperature Sensor	☐ PAC-SE41TS-E
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐ PAC-USSEN002-FM-1
Terminal Signal Adapter	Connector and wire for On/Off and Error status using CN51 and CN52	☐ PAC-725AD
	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
	Connector and wire for On/Off and Fan command using CN32	☐ PAC-715AD
Wired Remote Controller	Deluxe Wired MA Remote Controller	☐ PAR-42MAAUB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
Wireless Remote Controller	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐ PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Wireless Handheld Controller kit with Receiver and i-See Sensor for Ceiling Suspended Models	☐ PAR-SA92MW-E
	Wireless Remote Controller	☐ PAR-SL101A-E
	Wireless Handheld Controller kit with Receiver for PCA models	☐ PAR-SL93B-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB

Notes

¹Requires MAC-334IF-E Interface to connect MA controller

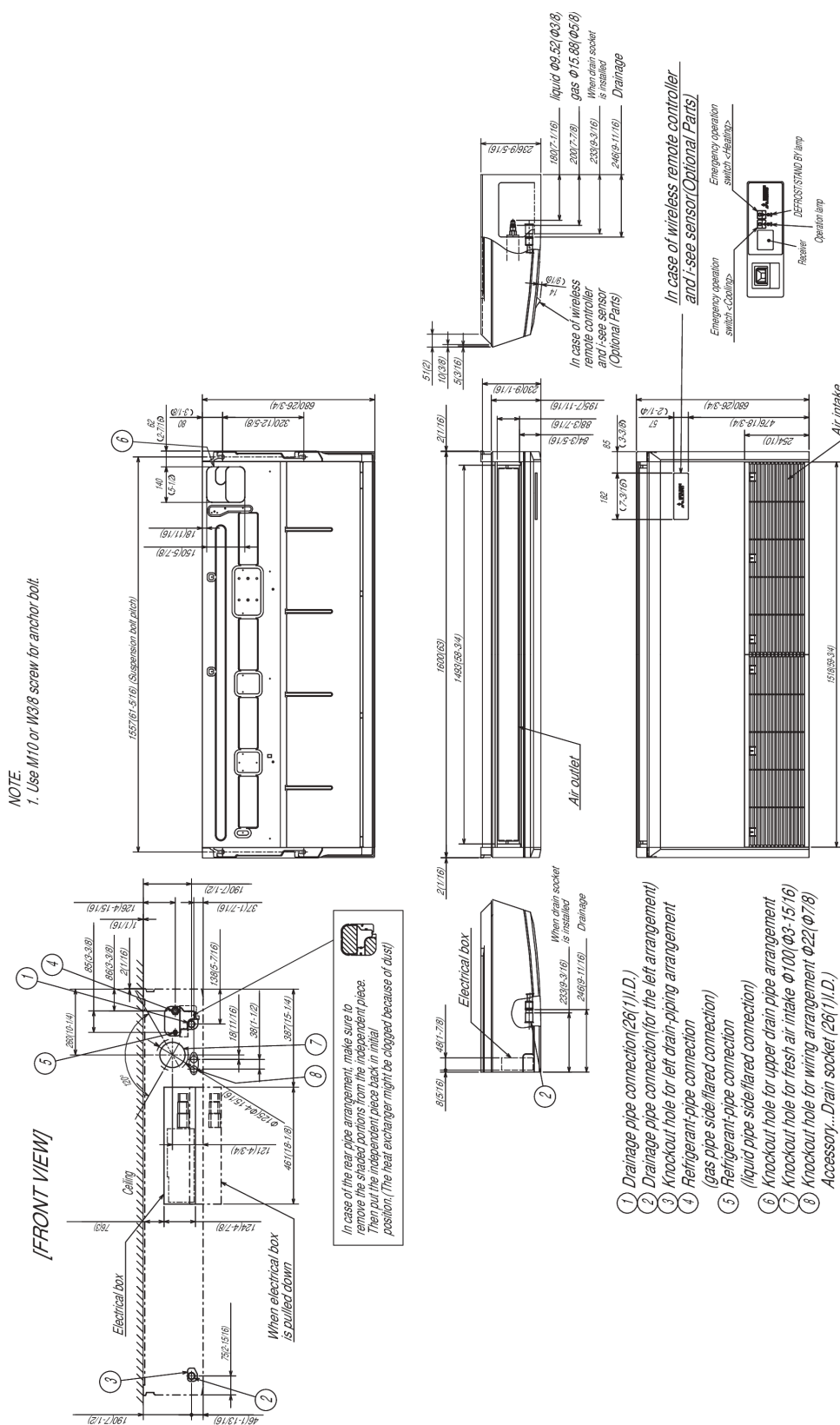
¹Unable to use with Wireless Handheld Remote Controller

²Allows IDU Connection to MA Controller: *Deluxe MA Remote Controller *Simple MA Controller *Touch MA Controller

OUTDOOR UNIT ACCESSORIES: PUY-AK42NL

Air Outlet Guide	Air Outlet Guide 1 Piece	☐	PAC-SH96SG-E (two pieces required)
Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	ControlService Tool	☐	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	PAC-SG61DS-E
Hail Guards	Hail Guard	☐	HG-A2
M-NET Converter	M-Net Interface for P-Series	☐	PAC-SJ95MA-E
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 24 x 42 x 3	☐	ULTRILITE2
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-5
Stand	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	18 Dual Fan Stand	☐	QSMS1802M
	24 Dual Fan Stand	☐	QSMS2402M
	Outdoor Unit Stand 12 High	☐	QSMS1202M
Terminal Signal Adapter	Connector and wire for On/Off and Fan command using CN32	☐	PAC-715AD
	Connector and wire for On/Off and Error status using CN51 and CN52	☐	PAC-725AD
Wind Baffle	Rear Wind Baffle	☐	WB-RE6
	Side Advanced Wind Baffle	☐	WB-SD6
	Front Wind Baffle	☐	WB-PA3 (two pieces required)
Notes			

INDOOR UNIT DIMENSIONS: PCA-AK42NL



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