

PKA-AK36NL & PUZ-AK36NLHZ
33,400 BTU/H WALL-MOUNTED INDOOR UNIT
36,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... PKA-AK36NL

OUTDOOR Unit ... PUZ-AK36NLHZ

INDOOR UNIT FEATURES

- **Swing Mode:** An indoor unit with this capability can move air throughout the room like an oscillating fan.
- **Auto Vane Control:** Auto Vane Control allows the indoor unit vanes to be moved left, right, up, and down to provide even temperatures throughout a space.
- **Light Commercial:** Light commercial applications include small offices, restaurants, and retail.
- **Horizontal Vane Control:** Horizontal Vane Control allows the indoor unit vanes to be moved left right to provide even temperatures throughout a space.
- **Three Speed Fan:** Adjust the fan between three speed settings to optimal comfort.
- **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.

OUTDOOR UNIT FEATURES

- **H2i® Hyper-Heating:** 100% heating performance down to 5° F with guaranteed heating down to -13° F.
- **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.
- **Base Pan Heater:** This advanced base pan heater helps to prevent interrupted operation due to water freezing after a defrost cycle, ensuring your warmth and comfort during colder weather.
- **Seacoast Protection:** Designed to protect against the corrosive effects of environments that are in close proximity to the sea.
- **Flash Injection:** Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.

SPECIFICATIONS: PKA-AK36NL & PUZ-AK36NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	36000
	Rated Capacity	Btu/h	33600
	Minimum Capacity	Btu/h	14200
	Maximum Power Input	W	3110
	Rated Power Input	W	2810
	Moisture Removal	Pints/h	12.40
	Sensible Heat Factor		0.60
Heating at 47F ²	Power Factor [208V / 230V]	%	98 / 98
	Maximum Capacity	Btu/h	40000
	Rated Capacity	Btu/h	40000
	Minimum Capacity	Btu/h	13000
	Maximum Power Input	W	2859
	Rated Power Input	W	2859
Heating at 17F ³	Power Factor [208V / 230V]	%	98 / 98
	Maximum Capacity	Btu/h	38000
	Rated Capacity	Btu/h	24200
	Maximum Power Input	W	6920
Heating at 5F ⁵	Rated Power Input	W	2500
	Maximum Capacity	Btu/h	38000
Heating at -13F ⁹	Maximum Power Input	W	5870
	Maximum Capacity	Btu/h	31200
Efficiency	SEER2		22.10
	EER2 ¹		11.90
	HSPF2 [IV]		9.60
	COP at 47°F ²		4.10
	COP at 17°F at Maximum Capacity ³		1.60
	COP at 5°F at Maximum Capacity ⁵		1.80
	COP at -13°F at Maximum Capacity ⁹		2.02
Electrical	ENERGY STAR® Certified		Yes
	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	30
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Fan Motor Output	W	69
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	705 , 810 , 920
	Airflow Rate at Cooling, Wet	CFM	705 , 810 , 920
	Airflow Rate at Heating, Dry	CFM	705 , 810 , 920
	Sound Pressure Level [Cooling]	dB (A)	43 , 46 , 49
	Sound Pressure Level [Heating]	dB (A)	43 , 46 , 49
	External Static Pressure	in.WG	
	Dual Barrier Coating on Heat Exchanger		No
	Dual Barrier Coating on Fan		No
	External Finish Color		0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	46-1/16 x 11-5/8 x 14-3/8 [1170 x 295 x 365]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	51-3/16 x 14-3/16 x 18-9/16 [1300 x 360 x 470]
	Unit Weight	lbs [kg]	46 [21]
	Package Weight	lbs [kg]	51 [23]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	deg F , deg F / deg F , deg F	90 , 73 / 66 , 59
	Heating Intake Air Temp [Maximum / Minimum]	deg F	83 / 50
Outdoor Unit	MCA	A	29
	MOCP	A	48

Notes

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

²Heating at 47°F (Indoor // Outdoor) °F 70 DB, 60 WB // 47 DB, 43 WB

³Heating at 17°F (Indoor // Outdoor) °F 70 DB, 60 WB // 17 DB, 15 WB

⁵Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB

⁹Heating at -13°F (Indoor // Outdoor) °F 70 DB, 60 WB // -13 DB, -14 WB

^{*}Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]): • 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 and automatically restarts at these temperatures.

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Outdoor Unit	Fan Motor Full Load Amperage	A	
	Fan Motor Output	W	74+74
	Airflow Rate Cooling	CFM	3740
	Airflow Rate Heating	CFM	3740
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	52
	Sound Pressure Level, Heating ²	dB (A)	53
	Compressor Type		Twin Rotary
	Compressor Model		MRK36FFGMC
	Compressor Oil [Type // Charge]	// oz	RM68EH // 45
	External Finish Color		Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	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]
ODU Operating Temp. Range	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]	231 [105]
	Package Weight	lbs [kg]	258 [117]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 23
Refrigerant	Cooling Thermal Lock-out / Re-start Temperatures**	F	
	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	70 , 59 / -13 , -13
	Heating Thermal Lock-out / Re-start Temperatures**	F	-22 / -13
	Type		R454B
Piping	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
	Gas Pipe Size O.D. [Flared]	inch [mm]	5/8 [15.88]
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Maximum Piping Length	ft [m]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		15

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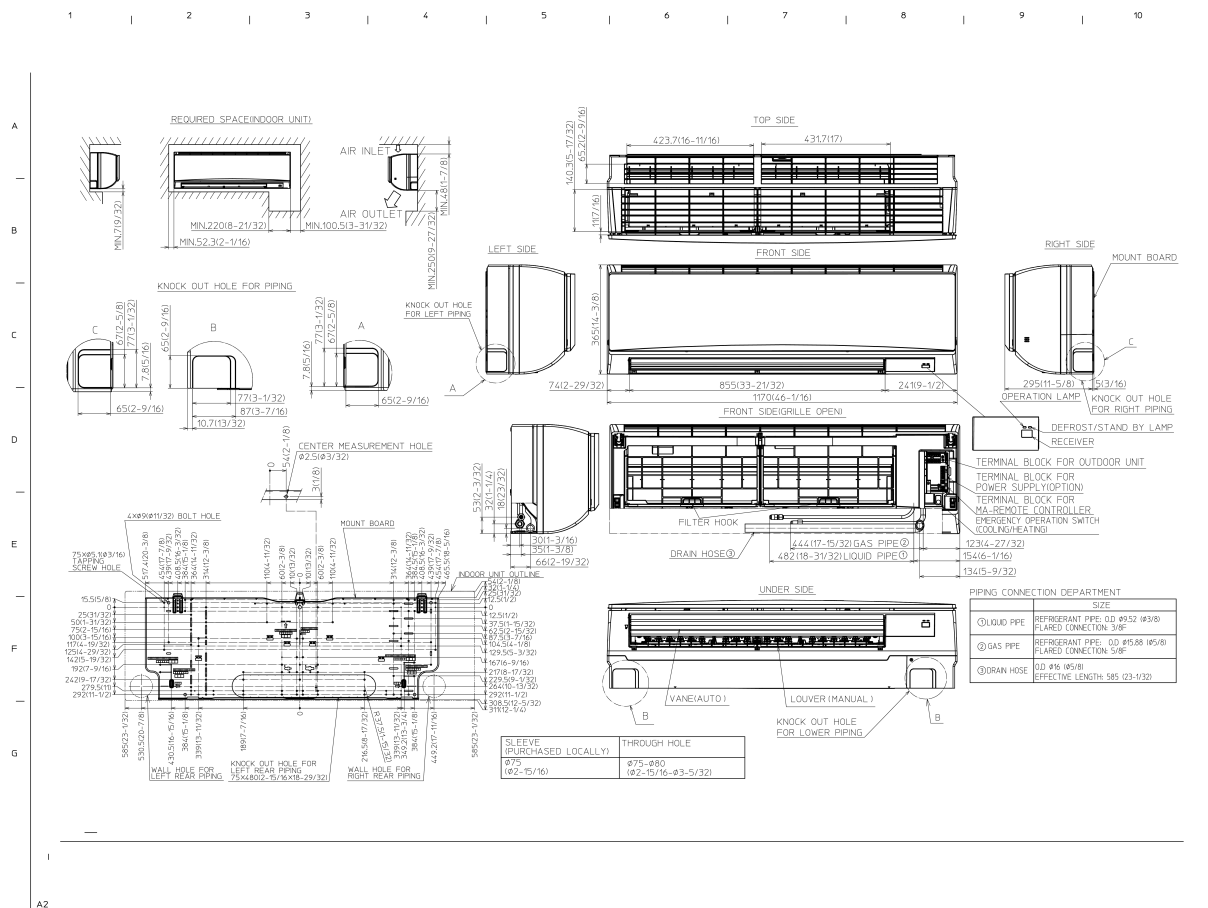
INDOOR UNIT ACCESSORIES: PKA-AK36NL

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
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	☐ SI30-230
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Drain Pan Level Sensor/Control	☐ SS610E
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	☐ GOBI-II
Control Interface	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Airzone Wireless Lite Controller Black	☐ AZZBSLITERN
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐ TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
Drain Hose	Flexible Mini-Split Drain Hose	☐ DRX-16
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 100 feet	☐ MPLS385812T-100
	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
	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
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐ SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐ SW144-50
N/A		☐ Unknown
Remote Sensor	Wall Mounted Remote Temperature Sensor	☐ PAC-SE41TS-E
	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐ PAC-USSEN002-FM-1
Terminal Signal Adapter	5-Pin Wiring Harness	☐ PAC-725AD
	3-Pin Wiring Harness	☐ PAC-715AD
	Backup Heat Relay Kit	☐ CN24RELAY-KIT-CM3
Wired Remote Controller	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Deluxe MA Wired Remote Controller	☐ PAR-42MAAUB
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
Wireless Remote Controller	Wireless Remote Controller	☐ PAR-SL101A-E
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐ PAR-FL32MA-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
Notes		

OUTDOOR UNIT ACCESSORIES: PUZ-AK36NLHZ

Air Outlet Guide	Air Outlet Guide 1 Piece	☐	PAC-SH96SG-E (two pieces required)
Centralized Drain Pan	Centralized Drain Pan	☐	PAC-SH97DP-E
Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
	ControlService Tool	☐	PAC-SK52ST
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 Cable250 ft roll	☐	SW144-250
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
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
	24 Dual Fan Stand	☐	QSMS2402M
	18 Dual Fan Stand	☐	QSMS1802M
	Outdoor Unit Stand 12 High	☐	QSMS1202M
Terminal Signal Adapter	5-Pin Wiring Harness	☐	PAC-725AD
	3-Pin Wiring Harness	☐	PAC-715AD
Wind Baffle	Front Wind Baffle	☐	WB-PA3 (two pieces required)
Notes			

INDOOR UNIT DIMENSIONS: PKA-AK36NL



PIPING CONNECTION DEPARTMENT	
	SIZE
① LIQUID PIPE	REFRIGERANT PIPE: O.D. $\phi 9.52$ (#3/8) FLARED CONNECTION: 3/8F
② GAS PIPE	REFRIGERANT PIPE: O.D. $\phi 15.88$ (#5/8) FLARED CONNECTION: 5/8F
③ DRAIN HOSE	O.D. $\phi 16$ (#5/8) EFFECTIVE LENGTH: 585 (23-1/32)

SLEEVE (PURCHASED LOCALLY)	THROUGH HOLE
ø75 (ø2-15/16)	ø75-ø80 (ø2-15/16-ø3-5/32)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	35
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