

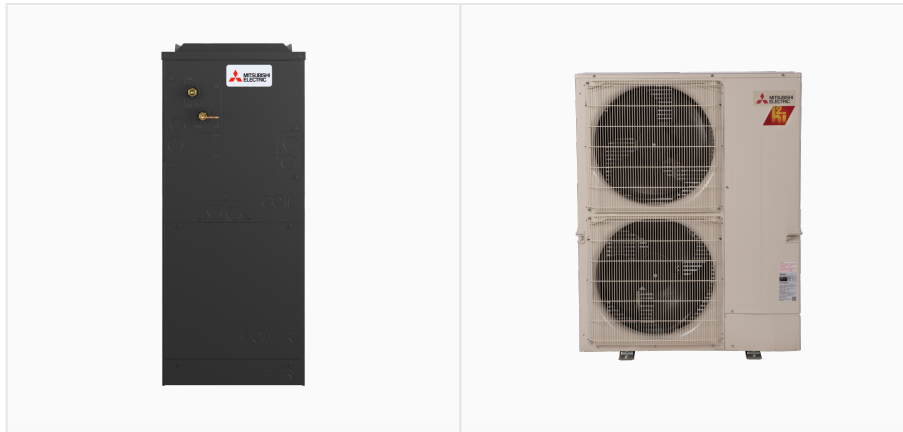
SVZ-AP36NL & SUZ-AK36NLHZ
33,000 BTU/H DUCTED AIR HANDLER INDOOR UNIT
36,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... SVZ-AP36NL

OUTDOOR Unit ... SUZ-AK36NLHZ

INDOOR UNIT FEATURES

- Wi-Fi Optional: A Wireless Interface Adapter can be ordered as an accessory for field installation.
- Auto Changeover: The unit will automatically switch between heating and cooling modes to maintain your desired temperature.
- Multi-Position Installation: Versatile installation options, including horizontal (left or right) and vertical (up or down) orientations, with included drain pans to facilitate easy setup for any configuration.
- Blow-through design: Unique blow-through design allows simple coil cleaning when the blower is removed.
- Three Speed Fan: Adjust the fan between three speed settings to optimal comfort.

OUTDOOR UNIT FEATURES

- H2i® Hyper-Heating: 100% heating capacity down to 5° 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: 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.
- Flash Injection: Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.

SPECIFICATIONS: SVZ-AP36NL & SUZ-AK36NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	37000
	Rated Capacity	Btu/h	36000
	Minimum Capacity	Btu/h	12700
	Maximum Power Input	W	3520
	Rated Power Input	W	3410
	Moisture Removal	Pints/h	10.20
	Sensible Heat Factor		0.70
Heating at 47F ²	Power Factor [208V / 230V]	%	90 / 90
	Maximum Capacity	Btu/h	40000
	Rated Capacity	Btu/h	40000
	Minimum Capacity	Btu/h	13300
	Maximum Power Input	W	3660
	Rated Power Input	W	3660
Heating at 17F ³	Power Factor [208V / 230V]	%	91 / 91
	Maximum Capacity	Btu/h	37000
	Rated Capacity	Btu/h	25800
	Maximum Power Input	W	6070
Heating at 5F ⁵	Rated Power Input	W	2990
	Maximum Capacity	Btu/h	37000
Heating at -13F ⁹	Maximum Power Input	W	6020
	Maximum Capacity	Btu/h	30400
Efficiency	SEER2		15.20
	EER2 ¹		10.50
	HSPF2 [IV]		9.10
	COP at 47°F ²		3.20
	COP at 17°F at Maximum Capacity ³		1.70
	COP at 5°F at Maximum Capacity ⁵		1.80
	COP at -13°F at Maximum Capacity ⁹		1.82
Electrical	ENERGY STAR® Certified		No
	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
	MCA	A	4.13
	Fan Motor Output	W	244
	Fan Motor Type		Direct-driven DC Brushless Motor
	Airflow Rate at Cooling, Dry	CFM	767 , 910 , 910
	Airflow Rate at Heating, Dry	CFM	767 , 910 , 910
	Sound Pressure Level [Cooling]	dB (A)	47 , 49 , 49
	Sound Pressure Level [Heating]	dB (A)	47 , 49 , 49
	External Static Pressure	in.WG	0.30 , 0.50 , 0.80
	Drain Pipe Size O.D.	inch [mm]	3/4 [19.05]
	External Finish Color		Hot-dip coated steel (ZAM)
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	21 x 21-5/8 x 43-7/8 [534 x 548 x 1111]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	22 x 28-11/16 x 48-1/16 [558 x 728 x 1220]
	Unit Weight	lbs [kg]	122 [55]
	Package Weight	lbs [kg]	141 [64]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 66 , 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	83 / 50
Outdoor Unit	MCA	A	29
	MOCP	A	48
	Fan Motor Output	W	74+74

Notes

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

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]): • Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

^{**}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.

SPECIFICATIONS: SVZ-AP36NL & SUZ-AK36NLHZ

Outdoor Unit	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 No.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]
	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]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -13 , -14
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-22.5 / -14
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]	245 [75]
	Maximum Height Difference	ft [m]	100 [30]
	Maximum Number of Bends		10

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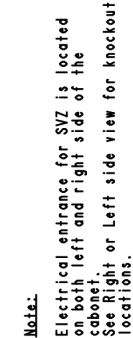
INDOOR UNIT ACCESSORIES: SVZ-AP36NL

Condensate	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	☐ X87-711
	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 Sensor Extension Cable 15 Ft	☐ C13-103
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
Control Interface	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wired Lite Controller White	☐ AZZBSLITECB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	IT Extender	☐ PAC-WHS01IE-E
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
Control Wire	202PR shielded 1PR plenum wire for Airzone 500 ft reel	☐ CW2042S2-500
	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	☐ CW2042S2-100
Disconnect Switch	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
	30A600VUL fits 2 X 4 utility box - White	☐ TAZ-MS303W
Downflow Kit	Downflow Kit	☐ DFK-M
Electric Heat Lockout	Electric Heat Lockout	☐ ETC-211020-MIT
Electric Kit Heats	10kW Electric Heater	☐ EH10-SVZ-M
	5kW Electric Heater	☐ EH05-SVZ-M
	8kW Electric Heater	☐ EH08-SVZ-M
Lineset	3/8 x 5/8 Lineset Twin-Tube Insulation - 15 feet	☐ MPLS385812T-15
	3/8 x 5/8 Lineset Twin-Tube Insulation - 10 feet	☐ MPLS385812T-10
	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 - 30 feet	☐ MPLS385812T-30
	3/8 x 5/8 Lineset Twin-Tube Insulation - 65 feet	☐ MPLS385812T-65
Remote Sensor	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐ PAC-USSEN002-FM-1
	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
	Wall Mount Remote Temperature Sensor	☐ PAC-SE41TS-E
Terminal Block	Separate Terminal Power Block	☐ SPTB1
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
	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	☐ PAC-740
	Connector and wire for On/Off and Fan command using CN32	☐ PAC-715AD
Wired Remote Controller	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Deluxe Wired MA Remote Controller	☐ PAR-42MAAUB
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless Remote Controller	☐ PAR-SL101A-E
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐ PAR-FL32MA-E
Notes ¹ Unable to use with Wireless Handheld Remote Controller ¹ Requires MAC-334IF-E Interface to connect MA controller		

OUTDOOR UNIT ACCESSORIES: SUZ-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	USB Conversion Cable for PAC-USCMS-MN-1	☐	M21EC1397
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	PAC-SG61DS-E
Hail Guards	Hail Guard	☐	HG-A2
Mini-Split Wire	16 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S164-50
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐	SW144-250
	16 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S164-250
	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 Stand 12 High	☐	QSMS1202M
	24 Dual Fan Stand	☐	QSMS2402M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	18 Dual Fan Stand	☐	QSMS1802M
Wind Baffle	Front Wind Baffle	☐	WB-PA3 (two pieces required)
Notes			

INDOOR UNIT DIMENSIONS: SVZ-AP36NL



Model	Nominal Filer Size	Duct Connection
SIZEAP24M	500X600X25.4 (20X24X1)	375MM2 (14.13 (18X15.78)
SIZEAP18M	SIZEAP24M	
SIZEAP20M	SIZEAP24M	
SIZEAP38M	500X600X25.4 (20X24X1)	477MM2 (18.13 (18X15.78)

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