

SVZ-AP18NL & SUZ-AA18NL
18,000 BTU/H DUCTED AIR HANDLER INDOOR UNIT
18,000 BTU/H HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... SVZ-AP18NL
OUTDOOR Unit ... SUZ-AA18NL

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

- 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.

SPECIFICATIONS: SVZ-AP18NL & SUZ-AA18NL

Cooling at 95F ¹	Maximum Capacity	Btu/h	18000
	Rated Capacity	Btu/h	18000
	Minimum Capacity	Btu/h	5700
	Maximum Power Input	W	1490
	Rated Power Input	W	1490
	Moisture Removal	Pints/h	2.80
	Sensible Heat Factor		0.83
Heating at 47F ²	Power Factor [208V / 230V]	%	98 / 98
	Maximum Capacity	Btu/h	23800
	Rated Capacity	Btu/h	20000
	Minimum Capacity	Btu/h	8500
	Maximum Power Input	W	1980
	Rated Power Input	W	1530
Heating at 17F ³	Power Factor [208V / 230V]	%	99 / 99
	Maximum Capacity	Btu/h	12800
	Rated Capacity	Btu/h	12800
	Maximum Power Input	W	1290
Heating at 5F ⁵	Rated Power Input	W	1290
	Maximum Capacity	Btu/h	10200
Heating at -4F ⁶	Maximum Power Input	W	1000
	Maximum Capacity	Btu/h	8200
Efficiency	SEER2		16.20
	EER2 ¹		12
	HSPF2 [IV]		9.80
	COP at 47°F ²		3.80
	COP at 17°F at Maximum Capacity ³		2.90
	COP at 5°F at Maximum Capacity ⁵		3
	COP at -4°F at Maximum Capacity ⁶		2.45
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
	MCA	A	3
	Fan Motor Output	W	121
	Fan Motor Type		Direct-driven DC Brushless Motor
	Airflow Rate at Cooling, Dry	CFM	471 , 573 , 675
	Airflow Rate at Heating, Dry	CFM	471 , 573 , 675
	Sound Pressure Level [Cooling]	dB (A)	36 , 41 , 45
	Sound Pressure Level [Heating]	dB (A)	36 , 41 , 45
	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]	17 x 21-5/8 x 39-13/16 [432 x 548 x 1011]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	18-1/8 x 28-11/16 x 44 [460 x 728 x 1117]
	Unit Weight	lbs [kg]	97 [44]
	Package Weight	lbs [kg]	116 [53]
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	25
	MOCP	A	42
	Fan Motor Output	W	50

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

*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.

⁶Heating at -4°F (Indoor // Outdoor) °F 70 DB, 60 WB // -4 DB, -5 WB

*Use 1/4 liquid line for SUZ-AA24/30/36NL, adapter is included with the outdoor unit

SPECIFICATIONS: SVZ-AP18NL & SUZ-AA18NL

Outdoor Unit	Airflow Rate Cooling	CFM	2193
	Airflow Rate Heating	CFM	1949
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling ¹	dB (A)	54
	Sound Pressure Level, Heating ²	dB (A)	55
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMT
	Compressor Oil [Type // Charge]	// oz	RM68EH // 14.5
	External Finish Color		Munsell No.3Y 7.8/1.1
	Base Pan Heater		Optional
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	38-5/8 x 16-9/16 x 39 [980 x 420 x 990]
	Unit Weight	lbs [kg]	115 [52.16]
	Package Weight	lbs [kg]	133 [60.3]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-1 / 3
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -4 , -5
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-14 / -4
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs	3
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10

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INDOOR UNIT ACCESSORIES: SVZ-AP18NL

Condensate	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	☐ X86-003
	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 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
	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
Control Interface	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Airzone Wired Lite Controller White	☐ AZZBSLITECB
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
Control Wire	IT Extender	☐ PAC-WHS01IE-E
	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	☐ CW2042S2-100
Disconnect Switch	202PR shielded 1PR plenum wire for Airzone 500 ft reel	☐ CW2042S2-500
	30A600VUL fits 2 X 4 utility box - White	☐ TAZ-MS303W
Downflow Kit	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
	Downflow Kit	☐ DFK-S
Electric Heat Lockout	Electric Heat Lockout	☐ ETC-211020-MIT
Electric Kit Heats	5kW Electric Heater	☐ EH05-SVZ-S
	3kW Electric Heater	☐ EH03-SVZ-S
	8kW Electric Heater	☐ EH08-SVZ-S
Lineset	1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet	☐ MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	☐ MLS141212T-100
	1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet	☐ MLS141212T-30
	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	☐ MLS141212T-15
	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	☐ MLS141212T-65
Remote Sensor	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	☐ PAC-USSEN002-FM-1
	Wall Mount Remote Temperature Sensor	☐ PAC-SE41TS-E
	Wireless temperature and humidity sensor for Comfort app	☐ PAC-USWHS003-TH-1
Terminal Block	Separate Terminal Power Block	☐ SPTB1
Terminal Signal Adapter	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
	Connector and wire for On/Off and Error status using CN51 and CN52	☐ PAC-725AD
Wired Remote Controller	Simple Direct Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Touch MA Remote Controller	☐ PAR-CT01MAU-SB
	Deluxe Wired MA Remote Controller	☐ PAR-42MAAUB
Wireless Remote Controller	Wireless Remote Controller	☐ PAR-SL101A-E
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐ PAR-FL32MA-E
	Wireless RedLINK™ Remote Controller	☐ MHK2

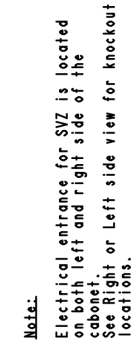
Notes

- ¹Unable to use with Wireless Handheld Remote Controller
¹Requires MAC-334IF-E Interface to connect MA controller

OUTDOOR UNIT ACCESSORIES: SUZ-AA18NL

Air Outlet Guide	Air Outlet Guide	☐	MAC-890SG-E
Control/Service Tool	Maintenance Tool Interface	☐	PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐	M21EC0397
Drain Socket	Drain Socket	☐	MAC-871DS
Hail Guards	Hail Guard	☐	HG-A7
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐	S144-250
	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 Armored MiniSplit Cable250 ft roll	☐	SW144-250
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Muffler	Muffler	☐	MAC-002MF-E
Optional Defrost Heater	Base Heater	☐	MAC-660BH-U
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-3
Stand	Condenser Wall Bracket	☐	QSWB2000M-1
	24 Single Fan Stand	☐	QSMS2401M
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
	18 Single Fan Stand	☐	QSMS1801M
Notes			

INDOOR UNIT DIMENSIONS: SVZ-AP18NL

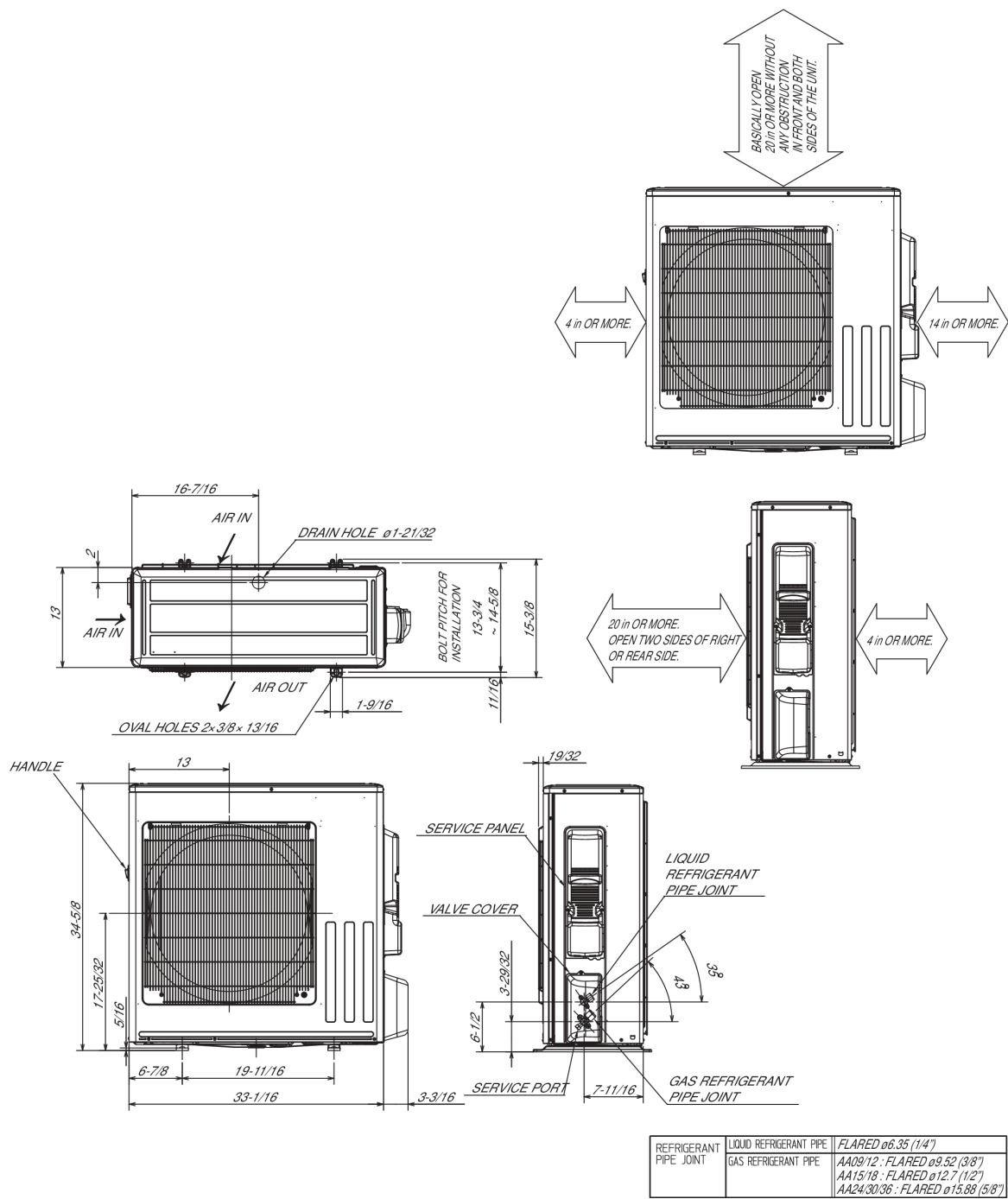


Model	Nominal Filter Size	Duct Connection
SIZEAP24L	50B X 65 X 125 L4 (20X16X1)	375X402 (14.13" X 15.78")
SIZEAP18L		
SIZEAP24L		
SIZEAP30L		
SIZEAP36L	50B X 65 X 125 L4 (20X16X1)	477X422 (18.13" X 16.578")

[illegible]

OUTDOOR UNIT DIMENSIONS: SUZ-AA18NL

REQUIRED SPACE



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