

SVZ-AP12NL & SUZ-AA12NLHZ
12,000 BTU/H DUCTED AIR HANDLER INDOOR UNIT
12,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit ... SVZ-AP12NL
OUTDOOR Unit ... SUZ-AA12NLHZ

INDOOR UNIT FEATURES

- Three Speed Fan: Adjust the fan between three speed settings to optimal comfort.
- 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: A unique blow-through design allows for easier cleaning and maintenance of the cabinet.

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: SVZ-AP12NL & SUZ-AA12NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	12000
	Rated Capacity	Btu/h	12000
	Minimum Capacity	Btu/h	5400
	Maximum Power Input	W	950
	Rated Power Input	W	950
	Moisture Removal	Pints/h	1.20
	Sensible Heat Factor		0.89
Heating at 47F ²	Power Factor [208V / 230V]	%	98 / 98
	Maximum Capacity	Btu/h	18000
	Rated Capacity	Btu/h	15000
	Minimum Capacity	Btu/h	8000
	Maximum Power Input	W	1520
	Rated Power Input	W	1200
	Power Factor [208V / 230V]	%	99 / 99
Heating at 17F ³	Maximum Capacity	Btu/h	15000
	Rated Capacity	Btu/h	9300
	Maximum Power Input	W	1700
	Rated Power Input	W	1110
Heating at 5F ⁵	Maximum Capacity	Btu/h	15000
	Maximum Power Input	W	2060
Heating at -13F ⁹	Maximum Capacity	Btu/h	9100
Efficiency	SEER2		16.10
	EER2 ¹		12.60
	HSPF2 [IV]		9.30
	COP at 47°F ²		3.60
	COP at 17°F at Maximum Capacity ³		2.50
	COP at 5°F at Maximum Capacity ⁵		2.10
	COP at -13°F at Maximum Capacity ⁹		1.61
	ENERGY STAR® Certified		Yes
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	30
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	3
	Fan Motor Output	W	121
	Fan Motor Type		Direct-driven DC Brushless Motor
	Airflow Rate at Cooling, Dry	CFM	278 , 381 , 448
	Airflow Rate at Heating, Dry	CFM	278 , 381 , 448
	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]	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	25
	MOCP	A	42
	Fan Motor Output	W	50

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]): • 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.

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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 // 14.50
	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]	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]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	115 [52.2]
	Package Weight	lbs [kg]	133 [60.3]
	Cooling Intake Air Temp [Maximum / Minimum*]	F	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	F	-1 / 3
Refrigerant	Heating Intake Air Temp [Maximum / Minimum]	F , F / F , F	75 , 65 / -13 , -14
	Heating Thermal Lock-out / Re-start Temperatures**	F	-22.50 / -14
	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	3 , 4
Piping	Maximum Pre-Charged Piping Length	ft [m]	25 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10

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

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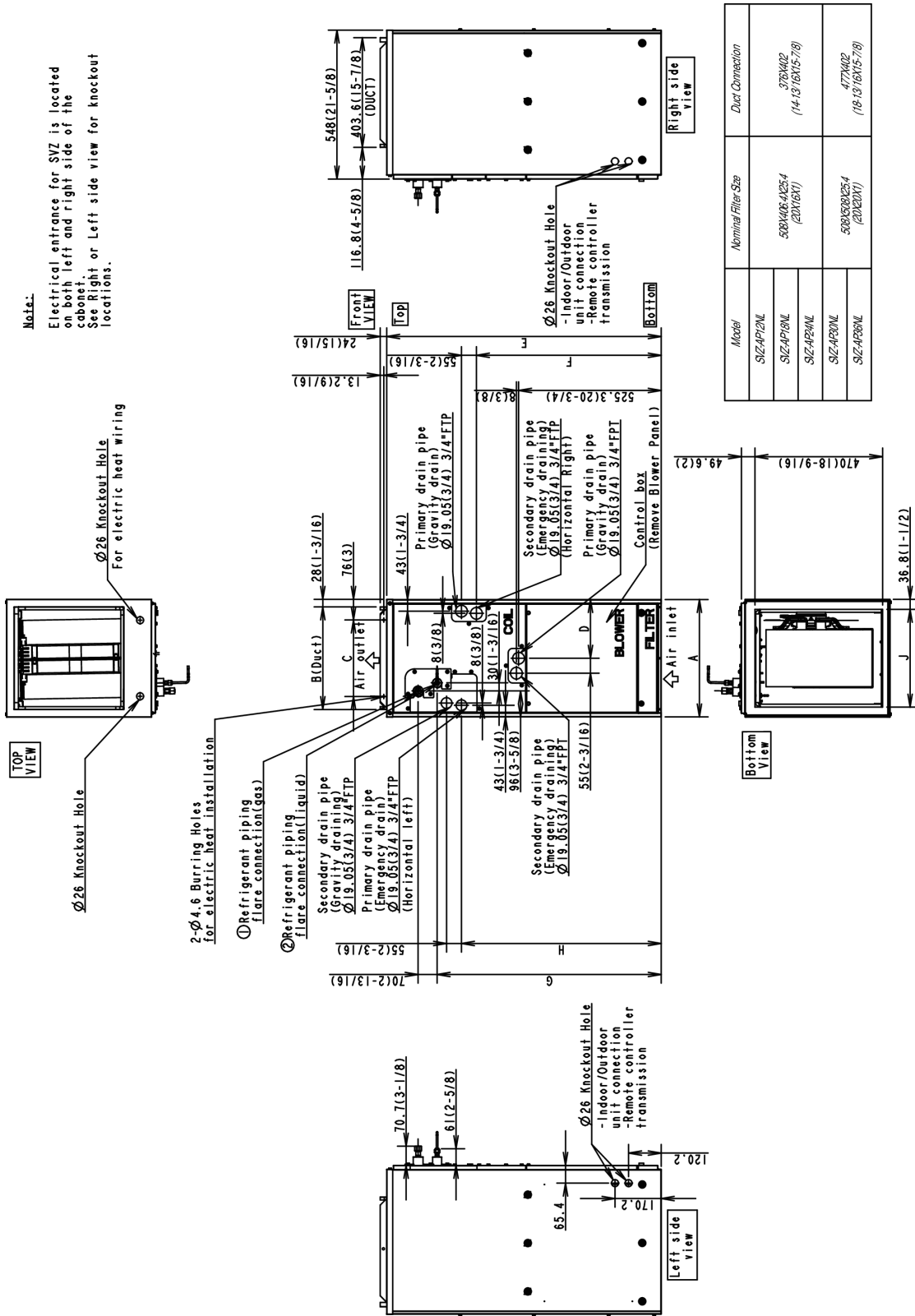
INDOOR UNIT ACCESSORIES: SVZ-AP12NL

Condensate	Refco Condensate Pump 100-240V up to 120k BTU/h	☐ COMBI
	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	☐ X86-003
	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 MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	☐ X87-835
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	☐ X87-711
	Blue Diamond Sensor Extension Cable 15 Ft	☐ C13-103
Control Interface	Airzone Wired Blueface Controller Black	☐ AZZBSBLUEZEROCN
	Wireless Interface 2 for Comfrot app	☐ PAC-USWHS002-WF-2
	Airzone Wireless Think Controller Black	☐ AZZBSTHINKRN
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Airzone Wired Lite Controller White	☐ AZZBSLITECB
	IT Extender	☐ PAC-WHS01IE-E
	Airzone Wireless Lite Controller White	☐ AZZBSLITERB
	Thermostat Interface for 3rd Party Thermostats	☐ PAC-US445CN-1
	Airzone Wireless Think Controller White	☐ AZZBSTHINKRB
	kumo station® for Comfort app	☐ PAC-WHS01HC-E
	Operation and Error Status Output Adapter	☐ PAC-SF40RM-E
	Airzone Wired Blueface Controller White	☐ AZZBSBLUEZEROCB
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	(30A/600V/UL) [fits 2" X 4" utility box] - White	☐ TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	☐ TAZ-MS303
Downflow Kit	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
Lineset	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-30
	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-65
	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-50
	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	☐ MLS143812T-15
N/A		☐ Unknown
Power Supplies & Auxiliary Components	ERV On/Off Input Adapter for CNER on SVZ PEAD and PVA models	☐ PAC-740
Remote Sensor	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
	Wall Mounted Remote Temperature Sensor	☐ PAC-SE41TS-E
Terminal Block	Separate Terminal Power Block	☐ SPTB1
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
	Simple MA Remote Controller	☐ PAC-YT53CRAU-J
	Deluxe MA Wired Remote Controller	☐ PAR-42MAAUB
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	☐ RCMKP1CB
	Wireless Remote Controller	☐ PAR-SL101A-E
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	☐ PAR-FL32MA-E
	Wireless RedLINK™ Remote Controller	☐ MHK2
	Universal Wireless Receiver for PAR-FL32MA-E	☐ PAR-FA32MA-W
Notes		

OUTDOOR UNIT ACCESSORIES: SUZ-AA12NLHZ

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 Armored MiniSplit Cable250 ft roll	☐	SW144-250
	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
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐	ULTRILITE1
Muffler	Muffler	☐	MAC-001MF-E
Port Adaptor	Adaptor 1/2 x 3/8	☐	PAC-SK88RJ-E
Snow/Rain Diverter	SnowRain Diverter	☐	SRD-3
Stand	Condenser Wall Bracket	☐	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	24 Single Fan Stand	☐	QSMS2401M
	18 Single Fan Stand	☐	QSMS1801M
	Outdoor Unit Stand 12 High	☐	QSMS1201M
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐	DSD-400P
Notes			

INDOOR UNIT DIMENSIONS: SVZ-AP12NL

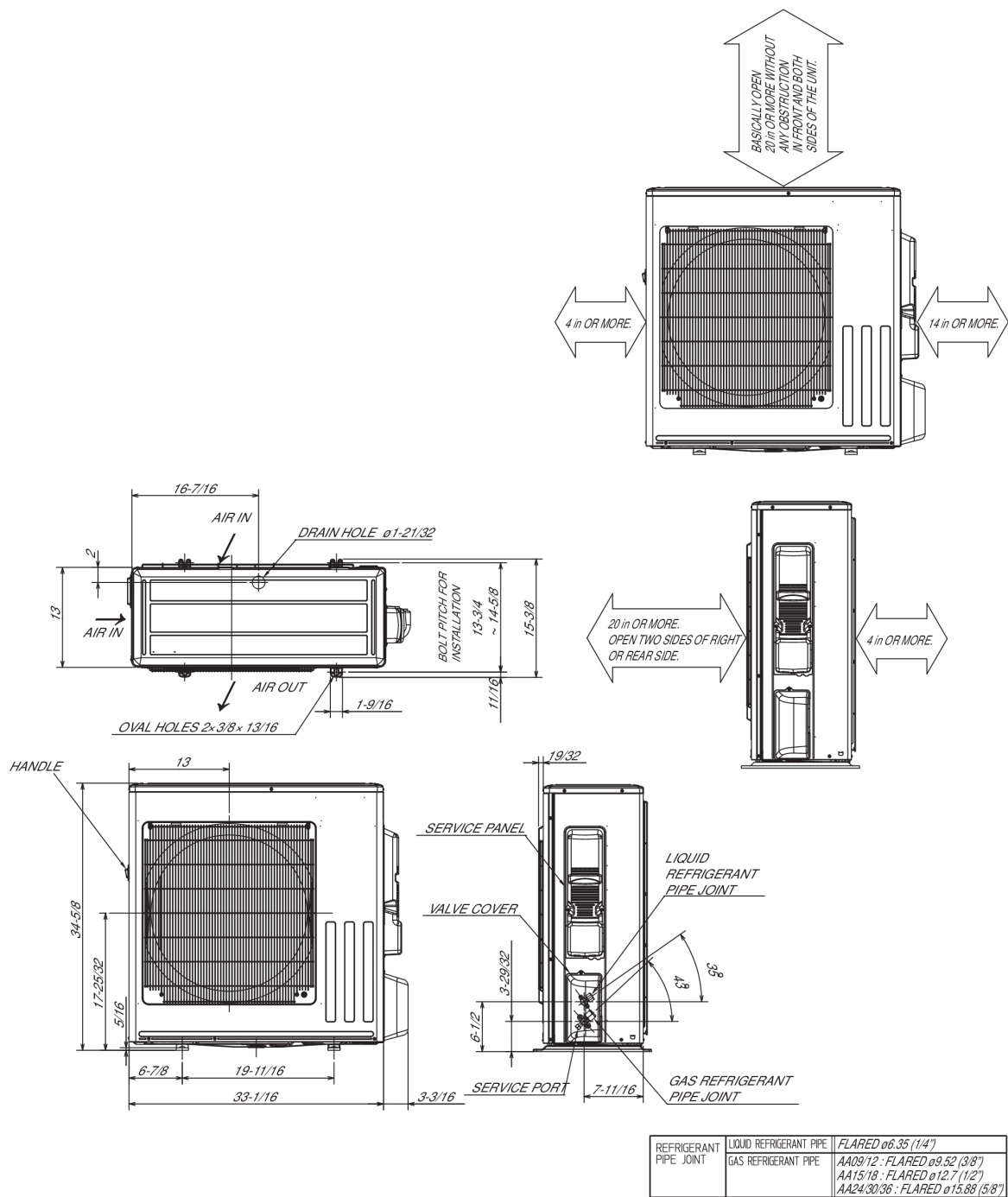


Model	Nominal Filter Size	Duct Connection
SVZ-AP12NL	508(406-425-4 (2018X1))	378(402 (14-13/16X15-7/8))
SVZ-AP18NL	508(406-425-4 (2018X1))	477(402 (18-3/8X15-7/8))
SVZ-AP24NL	508(406-425-4 (2018X1))	477(402 (18-3/8X15-7/8))
SVZ-AP30NL	508(406-425-4 (2018X1))	477(402 (18-3/8X15-7/8))
SVZ-AP36NL	508(406-425-4 (2018X1))	477(402 (18-3/8X15-7/8))

Model	A	B	C	D	E	F	G	H	J	Gas Pipe	Liquid pipe
SVZ-AP12NL	432 (17)	378 (14-3/16)	281 (11-1/8)	224 (8-7/8)	1010.8 (39-3/16)	680 (26-3/16)	623 (24-3/16)	735.5 (29)	380 (14-3/8)	n15.22 (3/8)	n6.35 (1/4)
SVZ-AP18NL	432 (17)	378 (14-3/16)	281 (11-1/8)	224 (8-7/8)	1010.8 (39-3/16)	680 (26-3/16)	623 (24-3/16)	735.5 (29)	380 (14-3/8)	n15.22 (3/8)	n6.35 (1/4)
SVZ-AP24NL	432 (17)	378 (14-3/16)	281 (11-1/8)	224 (8-7/8)	1010.8 (39-3/16)	680 (26-3/16)	623 (24-3/16)	735.5 (29)	380 (14-3/8)	n15.22 (3/8)	n6.35 (1/4)
SVZ-AP30NL	432 (17)	378 (14-3/16)	281 (11-1/8)	224 (8-7/8)	1010.8 (39-3/16)	680 (26-3/16)	623 (24-3/16)	735.5 (29)	380 (14-3/8)	n15.22 (3/8)	n6.35 (1/4)
SVZ-AP36NL	432 (17)	378 (14-3/16)	281 (11-1/8)	224 (8-7/8)	1010.8 (39-3/16)	680 (26-3/16)	623 (24-3/16)	735.5 (29)	380 (14-3/8)	n15.22 (3/8)	n6.35 (1/4)

OUTDOOR UNIT DIMENSIONS: SUZ-AA12NLHZ

REQUIRED SPACE



1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 · mitsubishicomfort.com

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