

Job Name:

System Reference:

Date:

Indoor Unit:
SVZ-KP18NAOutdoor Unit:
SUZ-KA18NAR1

GENERAL FEATURES

- Ducted air handler provides a solution to cool and heat larger zones
- Highly efficient completely enclosed EC motor
- Selectable external static pressure: 0.30, 0.50 and 0.80 in.WG with 3 fan speeds at each static setting
- 1 inch R4.2 fiberglass free insulation reduces condensation and increases efficiency
- Positive pressure cabinet with air leakage of less than 2.0% at 1.0 in. w.g. (Tested per ASHRAE Standard 193)
- Unique blow through design allows simple coil cleaning when the blower is removed
- Multi-position installation: horizontal (left or right), vertical (up flow)
- Optional electric heat kit for additional heating capacity
- Optional humidifier control, ERV control and auxiliary heat control

OUTDOOR UNIT FEATURES

- Variable speed INVERTER-driven compressor
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology
- High-performance grooved piping for increased heat exchange efficiency

SPECIFICATIONS: SVZ-KP18NA & SUZ-KA18NAR1

Cooling ¹	Maximum Capacity	Btu/h	18,000
	Rated Capacity	Btu/h	18,000
	Minimum Capacity	Btu/h	4,300
	Maximum Power Input	W	1,440
	Rated Power Input	W	1,440
	Moisture Removal	Pints/h	2.30
	Sensible Heat Factor		0.86
	Power factor	%	89.0
Heating at 47°F ²	Maximum Capacity	Btu/h	22,800
	Rated Capacity	Btu/h	22,800
	Minimum Capacity	Btu/h	7,700
	Maximum Power Input	W	1,870
	Rated Power Input	W	1,870
	Power factor	%	90.0
Heating at 17°F ³	Maximum Capacity	Btu/h	11,600
	Rated Capacity	Btu/h	11,600
	Maximum Power Input	W	1,470
	Rated Power Input	W	1,470
Efficiency	SEER		17.6
	EER *1		12.5
	HSPF (IV)		10.4
	COP at 47° F ²		3.70
	COP at 17° F ³		2.30
	ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)		Yes
Electrical	Voltage, Phase, Frequency		208/230V,1-phase,60Hz
	Guaranteed Voltage Range	V AC	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Voltage: Indoor - Remote controller	V DC	12
	Recommended Fuse/Breaker Size	A	15
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor unit	MCA	A	3
	Fan Motor Full Load Amperage	A	2.4
	Fan Motor Output	W	121
	Airflow Rate, Dry	CFM	471-573-675
	Airflow Rate, Wet	CFM	471-573-675
	External Static Pressure	in.WG	0.3 - 0.5 - 0.8
	Sound Pressure Level at 0.14 in. WG	dB(A)	33-36-41
	Drain Pipe Size	In. (mm)	3/4 (19.05) FPT
	Condensate Lift Mechanism, Max. Distance	In. (mm)	N/A

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	Heat Exchanger Type	Plate fin coil		
	External finish color	Hot-dip coated steel (ZAM)		
	Unit Dimensions	W: In. (mm)	17 (432)	
		D: In. (mm)	21-5/8 (548)	
		H: In. (mm)	39-13/16 (1,011)	
	Package Dimensions	W: In. (mm)	18 (460)	
		D: In. (mm)	28-3/4 (730)	
H: In. (mm)		44-3/8 (1,130)		
Unit Weight	Lbs. (kg)	93 (42)		
Package Weight	Lbs.	106		
Indoor unit operating temperature range	Cooling Intake Air Temp (Maximum / Minimum)	°F	95 DB, 71 WB / 67 DB, 57 WB	
	Heating Intake Air Temp (Maximum / Minimum)	°F	80 DB, 67 WB / 70 DB, 60 WB	
Outdoor Unit	MCA	A	14	
	MOCP	A	15	
	Fan Motor Full Load Amperage	A	0.93	
	Fan Motor Output	W	77	
	Airflow Rate	CFM	1,730 / 1,659	
	Refrigerant Control	LEV		
	Defrost Method	Reverse cycle		
	Heat Exchanger Type	Plate fin coil		
	Sound Pressure Level, Cooling ¹	dB(A)	54	
	Sound Pressure Level, Heating ²	dB(A)	56	
	Compressor Type	DC INVERTER-driven Twin Rotary		
	Compressor Model	SNB130FQBH		
	Compressor Rated Load Amps	A	10.0	
	Compressor Locked Rotor Amps	A	12.5	
	Compressor Oil Type // Charge	oz.	NEO22 // 15.2	
	External Finish Color	Munsell 3Y 7.8/1.1		
	Base Pan Heater	Optional (MAC-642BH-U1)		
	Unit Dimensions	W: In. (mm)	33-1/16 (840)	
		D: In. (mm)	13 (330)	
		H: In. (mm)	33-7/16 (850)	
Package Dimensions	W: In. (mm)	40 (1,020)		
	D: In. (mm)	18-1/2 (470)		
	H: In. (mm)	39 (990)		
Unit Weight	Lbs. (kg)	119 (54)		
Package Weight	Lbs. (kg)	146 (66)		
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)	°F	115 / 14	
	Cooling Thermal Lock- out / Re-start Temperatures**	°F	-7 / -4	
	Heating Air Temp (Maximum / Minimum)	°F	75 / 12	
	Heating Thermal Lock- out / Re-start Temperatures**	°F	-7 / -4	

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Refrigerant	Type		R410A
	Charge	Lbs, oz	3, 16
Piping	Gas Pipe Size O.D. (Flared)	In.(mm)	1/2 (12.7)
	Liquid Pipe Size O.D. (Flared)	In.(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

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	¹ Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
	² Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
	³ Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

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

**System cuts out at -7°F (-21.7°C) to avoid thermistor error and automatically restarts at -4°F (-20°C).

ACCESSORIES: SVZ-KP18NA

Signal Receiver	□ PAR-SA9CA-E
Wireless Remote Controller	□ PAR-FL32MA-E
Wireless Remote Receiver	□ PAR-FA32MA-E
Backlit, Wall-mounted, Wireless Controller	□ MHK1
Portable Central Controller	□ MCCH1
Wired MA Controller	□ PAR-33MAA
Simple MA Controller	□ PAC-YT53CRAU
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Outside Air Sensor for MHK1	□ MOS1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
Wireless Interface	□ PAC-USWHS002-WF-1
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and Modbus Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Connector cable for remote display	□ PAC-SA88HA-EP
Connector for CN32 (remote on/off)	□ PAC-SE55RA-E
Remote Operation Adapter (with wire terminals for remote ON/OFF and operation status/ error) ¹	□ PAC-SF40RM-E
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 Btu/h [recommended]	□ X87-711 - 110V
MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) up to 48,000 Btu/h [recommended]	□ X87-721 - 208/230V
Drain Pan Level Sensor (Control for indoor unit shut off to prevent drain pan overflow)	□ DPLS2
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - Black	□ TAZ-MS303
3 Pole Disconnect Switch (30A/600VUL) [fits 2"X4" utility] - White	□ TAZ-MS303W
Separate Power Terminal Block Kit	□ SPTB1
Electric Heat Lockout Control	□ ETC-211000MIT
ERV Adapter	□ PAC-740
Electric Heat Kit for Multi-position AHU	□ EH03-SVZ-S
Electric Heat Kit for Multi-position AHU	□ EH05-SVZ-S
Electric Heat Kit for Multi-position AHU	□ EH08-SVZ-S
1/4" x 3/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-15
1/4" x 3/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-30
1/4" x 3/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-50
1/4" x 3/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS143812T-65
1/4 x 3/8 x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10

¹ Unable to use with wireless remote controller

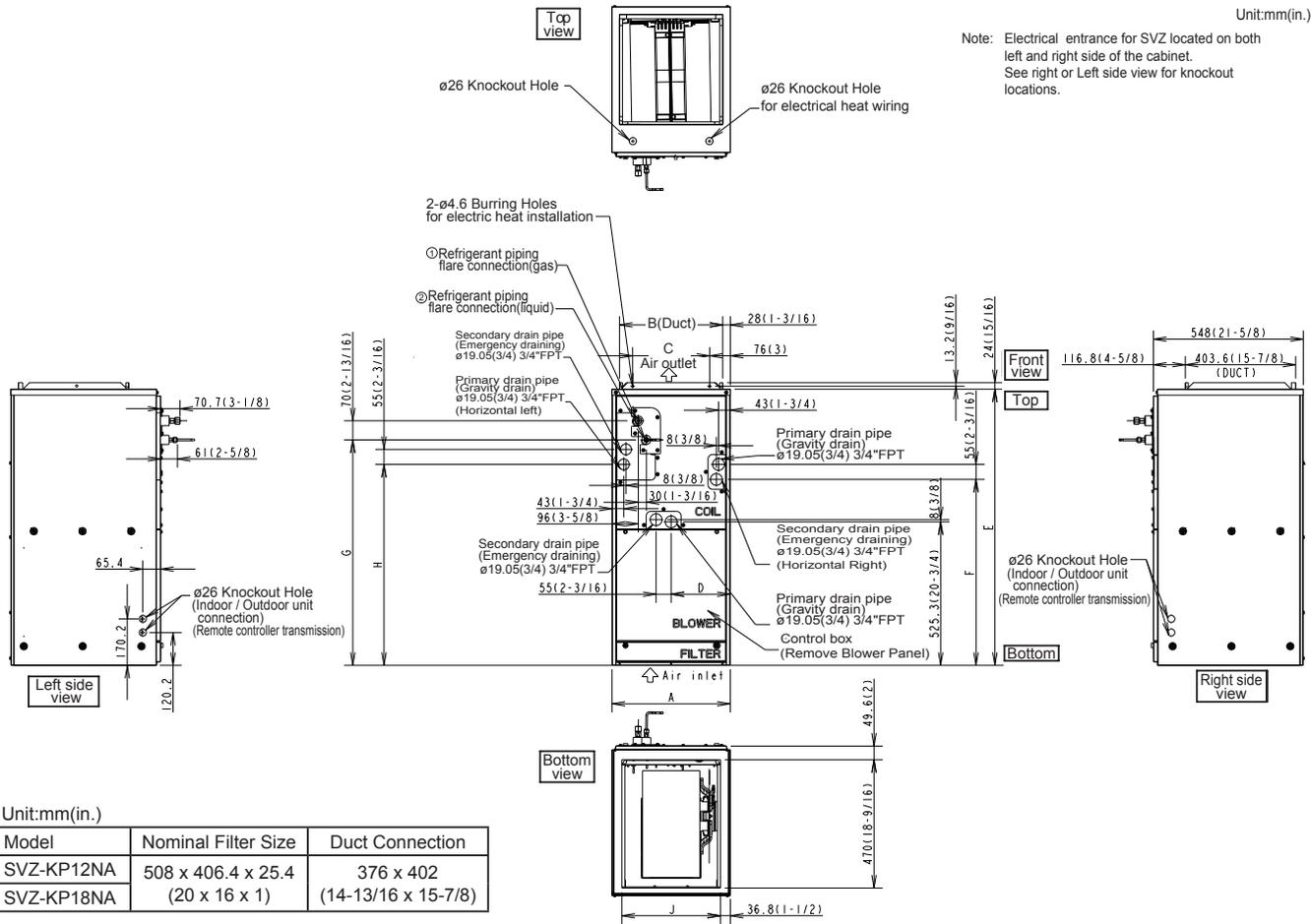
ACCESSORIES: SUZ-KA18NAR1

Air Outlet Guide	□ MAC-886SG-E
Defrost Heater	□ MAC-641BH-U1
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	□ DSD-400P
Condensing Unit Mounting Pad 16" x 36" x 3"	□ ULTRILITE1
Outdoor Unit Stand—12" High	□ QSMS1201M
Outdoor Unit Stand—18" High	□ QSMS1801M
Outdoor Unit Stand—24" High	□ QSMS2401M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	□ QSWBSS

DIMENSIONS: SVZ-KP18NA

Unit:mm(in.)

Note: Electrical entrance for SVZ located on both left and right side of the cabinet.
See right or Left side view for knockout locations.



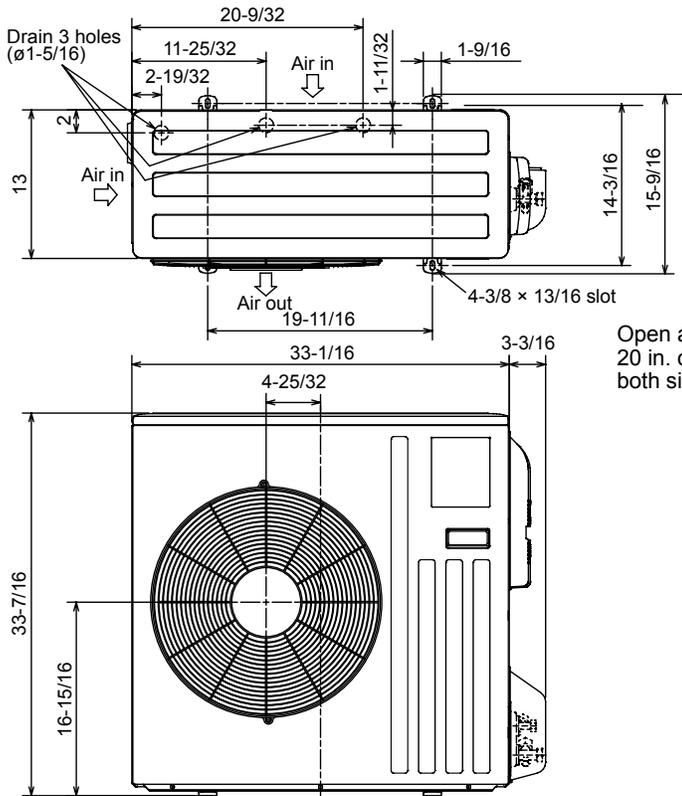
Unit:mm(in.)

Model	Nominal Filter Size	Duct Connection
SVZ-KP12NA	508 x 406.4 x 25.4	376 x 402
SVZ-KP18NA	(20 x 16 x 1)	(14-13/16 x 15-7/8)

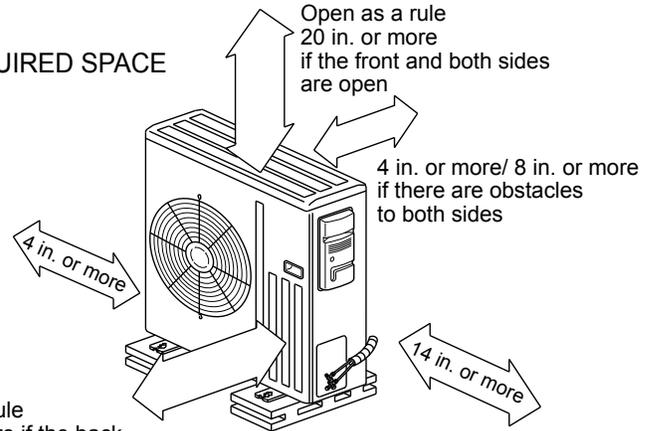
Model	A	B	C	D	E	F	G	H	J	Gas Pipe	Liquid pipe
SVZ-KP12NA	432	376	281	224	1,010.8	680	823	735.5	360	$\varnothing 9.52$ (3/8)	$\varnothing 6.35$
SVZ-KP18NA	(17)	(14-13/16)	(11-1/8)	(8-7/8)	(39-13/16)	(26-13/16)	(32-7/16)	(29)	(14-3/16)	$\varnothing 12.7$ (1/2)	(1/4)

DIMENSIONS: SUZ-KA18NAR1

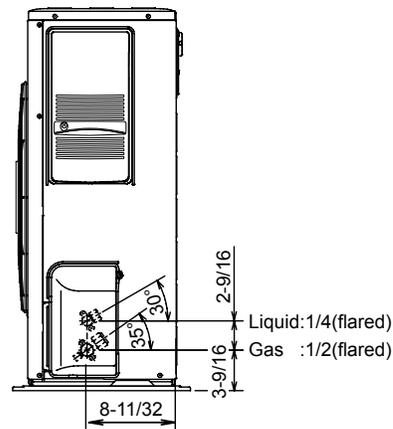
Unit: inch



REQUIRED SPACE



Open as a rule 20 in. or more if the back, both sides and top are open



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 Toll Free: 800-433-4822 www.mehvac.com

FORM# SVZ-KP18NA / SUZ-KA18NAR1 - 201809



Specifications are subject to change without notice.

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