SVZ-KP24NA & SUZ-KA24NAHZ 24,000 BTU/H MULTI-POSITION AIR HANDLER 24,000 BTU/H HYPER-HEATING UNIVERSAL OUTDOOR UNIT



Job Name:	
System Reference:	Date:



 Indoor Unit
 SVZ-KP24NA

 Outdoor Unit
 SUZ-KA24NAHZ

INDOOR UNIT FEATURES

- · Ducted air handler provides a solution to cool and heat large zones
- · Highly efficient totally enclosed ECM 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 boosts efficiency
- · Positive pressure cabinet with air leakage of less than 2.0% at 1.0 In.WG (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 or down)
- · Optional electric heat kit for additional heat capacity
- Optional humidifier control and ERV control
- · Built-in humidifier control, ERV control and auxiliary heat control
- · Optional downflow kit
- · Multiple control options available:
 - o kumo cloud® smart device app for remote access
 - $\circ \ \ \, \text{Third-party interface options}$
 - o Wired or wireless controllers

OUTDOOR UNIT FEATURES

- · The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- · INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance
- Hyper-heating performance offers 100% heating capacity at 5° F
- · Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle
- · Quiet operation
- Built-in base pan heater
- · Innovative Joint Lap DC Motor leads to high efficiency and reliability
- · Pulse Amplitude Modulation technology

SPECIFICATIONS: SVZ-KP24NA & SUZ-KA24NAHZ

	Maximum Capacity	BTU/H	24,000
	Rated Capacity	BTU/H	24,000
	Minimum Capacity	BTU/H	8,800
	Maximum Power Input	W	2,420
Cooling at 95°F1	Rated Power Input	W	2,420
	Moisture Removal	Pints/h	4.7
	Sensible Heat Factor	1 mon	0.78
	Power Factor [208V / 230V]	%	97.0 / 97.0
	Maximum Capacity	BTU/H	28,800
	Rated Capacity	BTU/H	23,000
	Minimum Capacity	BTU/H	9,400
Heating at 47°F ²	Maximum Power Input	W	2,790
	Rated Power Input	W	2,140
	·	%	97.0 / 97.0
	Power Factor [208V / 230V]	BTU/H	23.000
	Maximum Capacity		-7
Heating at 17°F3	Rated Capacity	BTU/H	19,200
-	Maximum Power Input	W	3,700
	Rated Power Input	W	2,566
Heating at 5°F4	Maximum Capacity	BTU/H	23,000
	Maximum Power Input	W	4,146
Heating at -13°F7	Maximum Capacity	BTU/H	18,400
	SEER SEER2		16.0 16.0
	EER1 EER21		9.9 9.9
	HSPF [IV] HSPF2 [IV]		9.2 8.4
Efficiency	COP at 47°F2		3.1
	COP at 17°F at Maximum Capacity ³		1.8
	COP at 5°F at Maximum Capacity ⁴		1.6
	ENERGY STAR® Certified		No
	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	V AC	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
E	Voltage: Indoor - Outdoor, S2-S3	V DC	24
Electrical	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Oudoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	3.0
	Fan Motor Full Load Amperage	A	2.4
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	515–625–735
	Airflow Rate at Heating, Dry	CFM	515–625–735
	Sound Pressure Level [Cooling]	dB[A]	33–36–41
	Sound Pressure Level [Heating]	dB[A]	33–36–41
Indoor Unit	External Static Pressure	in.WG	0.30-0.5-0.8
	Drain Pipe Size	In. [mm]	3/4 [19.05]
	Coating on Heat Exchanger	ini. [iniin]	3/4 [13.03]
	External Finish Color		Hot-dip coated steel (ZAM)
	Unit Dimensions	WyDyU:In [mm]	. ,
		W x D x H: In. [mm]	17 x 21-5/8 x 39-13/16 [432 x 549 x 1,011]
	Package Dimensions	W x D x H: In. [mm]	21 x 28-3/4 x 44-3/8 [460 x 730 x 1,127]
	Unit Weight	Lbs. [kg]	93 [42]
	Package Weight	Lbs. [kg]	106 [48]
Indoor Unit Operating Temperature	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 68 DB, 61 WB
Range	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

 ¹Cooling (Indoor // Outdoor)
 °F

 ²Heating at 47°F (Indoor // Outdoor)
 °F

 ³Heating at 17°F (Indoor // Outdoor)
 °F

Conditions

80 DB, 67 WB // 95 DB, 75 WB 70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

 $\begin{tabular}{ll} \begin{tabular}{ll} \beg$ 70 DB, 60 WB // 5 DB, 4 WB 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 to avoid thermistor error and automatically restarts at these temperatures.

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	MCA	A	17.0
	MOCP	A	27
	Fan Motor Output	W	74
	·	CFM	800 / 800
	Airflow Rate [Cooling / Heating]	CFIVI	LEV
	Refrigerant Control		
	Defrost Method		Reverse Cycle
	Sound Pressure Level, Cooling ¹	dB(A)	52
	Sound Pressure Level, Heating ²	dB(A)	53
	Compressor Type		Scroll
Outdoor Unit	Compressor Model		DNB28FBAMT
	Compressor Rated Load Amps	A	9
	Compressor Locked Rotor Amps	A	18.0
	Compressor Oil [Type // Charge]	OZ.	FVC68D // 1,34
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions	W x D x H: In. [mm]	37-13/32 x 14-3/16 x 37-1/8 [950 x 360 x 943]
	Package Dimensions	W x D x H: In. [mm]	41 x 18 x 41 [1040 x 450 x 1033]
	Unit Weight	Lbs. [kg]	190 [86]
	Package Weight	Lbs. [kg]	210 [95]
	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 0 DB
Outdoor Unit Operating Temperature Range	Heating Air Temp [Maximum / Minimum]	°F	75 DB, 65 WB / -13 DB, -14 WB
range	Heating Thermal Lock-out / Re-start Temperatures**	°F	-22 / -13
	Туре		R410A
Defricerent	Maximum Charge Quantity	Lbs, oz	7.0, 11.0
Refrigerant	Initial Charge Quantity	Ft. [m]	70.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.7 [65]
Piping	Gas Pipe Size O.D. [Flared]	In.[mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
	Maximum Piping Length	Ft. [m]	100 [30]
	Maximum Height Difference	Ft. [m]	100 [30]
	Maximum Number of Bends		15

Conditions

NOTES: AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)

¹Cooling (Indoor // Outdoor) °F
²Heating at 47°F (Indoor // Outdoor) °F
³Heating at 17°F (Indoor // Outdoor) °F

80 DB, 67 WB // 95 DB, 75 WB

70 DB, 60 WB // 47 DB, 43 WB 70 DB, 60 WB // 17 DB, 15 WB

⁴Heating at 5°F (Indoor // Outdoor) °F ⁷Heating at -13°F (Indoor // Outdoor) °F

70 DB, 60 WB // 5 DB, 4 WB 70 DB, 60 WB // -13 DB, -14 WB

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INDOOR UNIT ACCESSORIES: SVZ-KP24NA

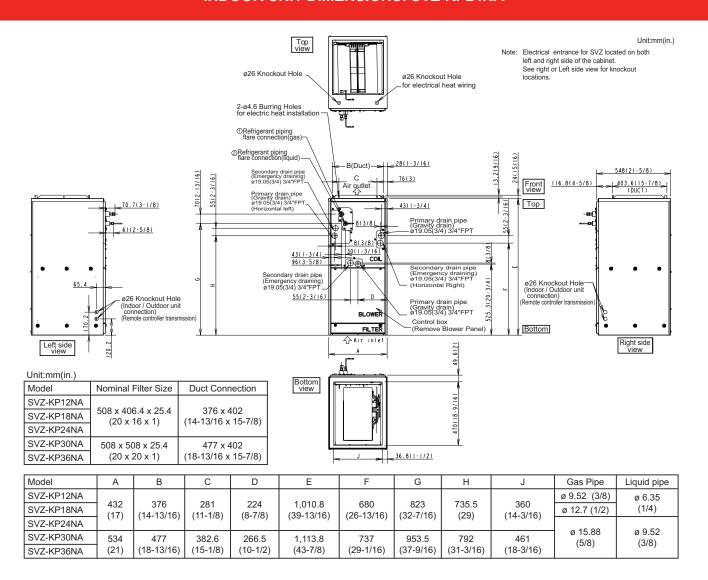
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEFACECB
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEZEROCB
	Airzone ZBS Wired Lite Controller White	AZZBSLITECB
	Airzone ZBS Wireless Lite Controller White	AZZBSLITERB
	Airzone ZBS Wireless Think Controller White	AZZBSTHINKRB
	BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
Control Interface	Connector cable for remote display	PAC-SA88HA-EP
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Remote Operation Adapter [‡]	PAC-SF40RM-E
	Thermostat Interface	PAC-US445CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
	Flush Mount Remote Temperature Sensor	PAC-USSEN002-FM-1
Demote Orange	Flush Mount Temperature Sensor	PAC-USSEN001-FM-1
Remote Sensor	Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humitity sensor for kumo cloud®	PAC-USWHS003-TH-1
	Deluxe Wired MA Remote Controller [†]	PAR-40MAAU
Wired Remote Controller	Simple MA Remote Controller [†]	PAC-YT53CRAU-J
	Touch MA Controller [†]	PAR-CT01MAU-SB
	kumo touch™ RedLINK™ Wireless Controller	MHK2
Wireless Remote Controller	Wireless MA Receiver	PAR-FA32MA-W
	Wireless MA Remote Controller	PAR-FL32MA-E
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
Condensate	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	X87-835
Condensate	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	COMBI
Control Wire	20/2PR, 1PR shielded + 1PR plenum wire for Airzone, 100 ft reel	CW2042S2-100
Control wire	20/2PR, shielded + 1PR plenum wire for Airzone, 500 ft reel	CW2042S2-500
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	TAZ-MS303
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Downflow Kit	Downflow Kit	DFK-S
Electric Heat Lockout	Electric Heat Lockout	ETC-211020-MIT
	3kW Electric Heater	EH03-SVZ-S
Electric Kit Heats	5kW Electric Heater	EH05-SVZ-S
	8kW Electric Heater	EH08-SVZ-S
	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-10
Lineset	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-100
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-15
Lineset	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-30
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-50
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-65
Terminal Block	Separate Terminal Power Block	SPTB1

NOTES: *PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: SUZ-KA24NAHZ

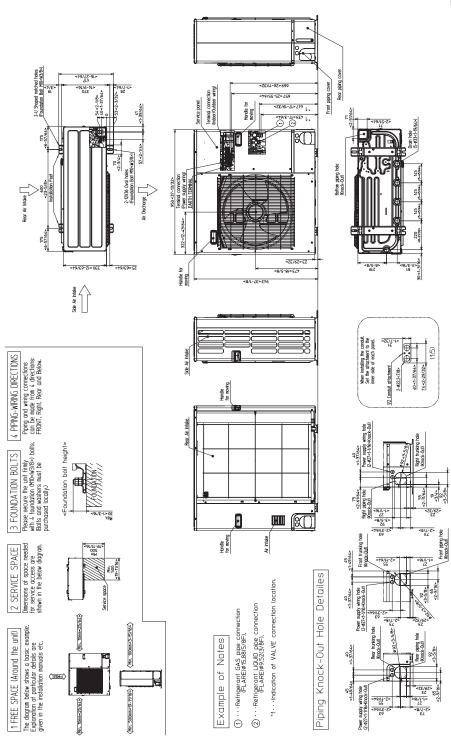
Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SG59SG-E
Centralized Drain Pan	Centralized Drain Pan	PAC-SG63DP-E
	Drain Pan	PAC-SG64DP-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
Drain Socket	Drain Socket	PAC-SH71DS-E
Hail Guards	Hail Guard	HG-A6
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
Stand	18" Single Fan Stand	QSMS1801M
	24" Single Fan Stand	QSMS2401M
	Outdoor Unit Stand — 12" High	QSMS1201M

INDOOR UNIT DIMENSIONS: SVZ-KP24NA



OUTDOOR UNIT DIMENSIONS: SUZ-KA24NAHZ

Unit: mm<in>



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Specifications are subject to change without notice.