SVZ-KP30NA & SUZ-KA30NAHZ 30,000 BTU/H MULTI-POSITION AIR HANDLER 30,000 BTU/H HYPER-HEATING UNIVERSAL OUTDOOR UNIT



Job Name:	
System Reference:	Date:



Indoor Unit	SVZ-KP30NA
Outdoor Unit	SUZ-KA30NAHZ

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
- H2i® hyper heat 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
- · Flash injection technology for rapid and efficient heating at low ambient temperatures

SPECIFICATIONS: SVZ-KP30NA & SUZ-KA30NAHZ

	Maximum Capacity	BTU/H	27,000
	Rated Capacity	BTU/H	27,000
	Minimum Capacity	BTU/H	13,400
	Maximum Power Input	W	2,100
Cooling at 95°F1	Rated Power Input	W	2,100
	Moisture Removal	Pints/h	4.1
	Sensible Heat Factor	1 1110/11	0.83
	Power Factor	%	96.0/96.0
	Maximum Capacity	BTU/H	34,000
	Rated Capacity	BTU/H	32,000
	Minimum Capacity	BTU/H	13,000
Heating at 47°F ²	Maximum Power Input	W	2,880
	Rated Power Input	W	2,400
	Power Factor	%	97.0/97.0
	Maximum Capacity	BTU/H	32,000
	Rated Capacity	BTU/H	21,400
Heating at 17°F3	Maximum Power Input	W	3,970
	Rated Power Input	W	2,750
	Maximum Capacity	BTU/H	32,000
Heating at 5°F4	Maximum Power Input	W BIO/H	4,140
Heating at -13°F7	Maximum Capacity	BTU/H	25,600
Treating at -13 1	SEER	Втолт	15.0
	EER ¹		12.5
			9.0
	HSPF [IV]		3.9
Efficiency	COP at 47°F at Mayimum Canasitus		2.0
	COP at 17°F at Maximum Capacity³		1.75
	COP at 5°F at Maximum Capacity ⁴		1.75
	COP at -13°F at Maximum Capacity ⁷		Yes
	ENERGY STAR® Certified Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	VAC	187 - 253
		VAC	208/230
	Voltage: Indoor - Outdoor, S1-S2 Voltage: Indoor - Outdoor, S2-S3	V AC	24
Electrical	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Oudoor)	A	35
	` '	AWG	14
	Recommended Wire Size [Indoor - Outdoor] Power Supply	AWG	Indoor unit is powered by the outdoor unit
	MCA	A	4.13
		A	3.3
	Fan Motor Full Load Amperage Fan Motor Output	W	244
	·	VV	
	Fan Motor Type Airflow Rate at Cooling, Dry	CFM	DC Motor 613–744–875
	Airflow Rate at Heating, Dry	CFM	613–744–875
	Sound Pressure Level [Cooling]	dB[A]	32–37–41
Indoor Unit	Sound Pressure Level [Heating]	dB[A]	32–37–41
	External Static Pressure	in.WG	0.30-0.5-0.8
	Drain Pipe Size	In. [mm]	3/4 [19.05]
	Coating on Heat Exchanger External Finish Color		Hot discontrol (7AM)
	Unit Dimensions	W x D x H: In. [mm]	Hot-dip coated steel (ZAM) 21 x 21-5/8 x 43-3/4 [533 x 549 x 1111]
			•
	Package Dimensions	W x D x H: In. [mm]	21 x 28-3/4 x 48-3/8 [558 x 730 x 1,228]
	Unit Weight	Lbs. [kg]	119 [54]
lada a llait On anti	Package Weight	Lbs. [kg]	141 [64]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	*F	90 DB, 72 WB / 68 DB, 61 WB
runge	Heating Intake Air Temp [Maximum / Minimum]	-F	77 DB / 59 DB

NOTES:	¹Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
AHRI Rated Conditions	²Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
(Rated data is determined at a fixed compressor speed)	³Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB
Conditions	⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
	⁵ Heating at -4°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -4 DB, -5 WB
	⁶ Heating at -5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -5 DB, -6 WB

^{*}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.

SPECIFICATIONS: SVZ-KP30NA & SUZ-KA30NAHZ

	MCA	A	24.0
	MOCP	A	40
	Fan Motor Output	W	74
	Airflow Rate	CFM	590/680
	Refrigerant Control		LEV
	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		ANB33FJMMT
	Compressor Rated Load Amps	A	18.0
	Compressor Locked Rotor Amps	A	27.5
	Compressor Oil Type // Charge	OZ.	FV50S // 1.4,47
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions	W x D x H: In. [mm]	41-5/16 x 14-3/16 x 52-11/16 [1050 x 360 x 1338]
	Package Dimensions	W x D x H: In. [mm]	43 x 18 x 57 [1110 x 480 x 1440]
	Unit Weight	Lbs. [kg]	261 [118]
	Package Weight	Lbs. [kg]	285 [129]
	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
Carige	Heating Thermal Lock-out / Re-start Temperatures**	°F	-22 / -13
	Туре		R410A
Defricement	Charge	Lbs, oz	11, 7.0
Refrigerant	Chargeless Piping Length	Ft. [m]	100.0 [30.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.6 [56]
	Gas Pipe Size O.D. [Flared]	In.[mm]	5/8 [15.88]
	Liquid Pipe Size O.D. [Flared]	In.[mm]	3/8 [9.52]
Piping	Maximum Piping Length	Ft. [m]	245 [75]
	Maximum Height Difference	Ft. [m]	100 [30]
	Maximum Number of Bends		15

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

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

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

Conditions

⁴Heating at 5°F (Indoor // Outdoor) ⁵Heating at -4°F (Indoor // Outdoor) ⁶Heating at -5°F (Indoor // Outdoor) ⁷Heating at -13°F (Indoor // Outdoor)

70 DB, 60 WB // 5 DB, 4 WB 70 DB, 60 WB // -4 DB, -5 WB 70 DB, 60 WB // -5 DB, -6 WB 70 DB, 60 WB // -13 DB, -14 WB

^{*}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.

INDOOR UNIT ACCESSORIES: SVZ-KP30NA

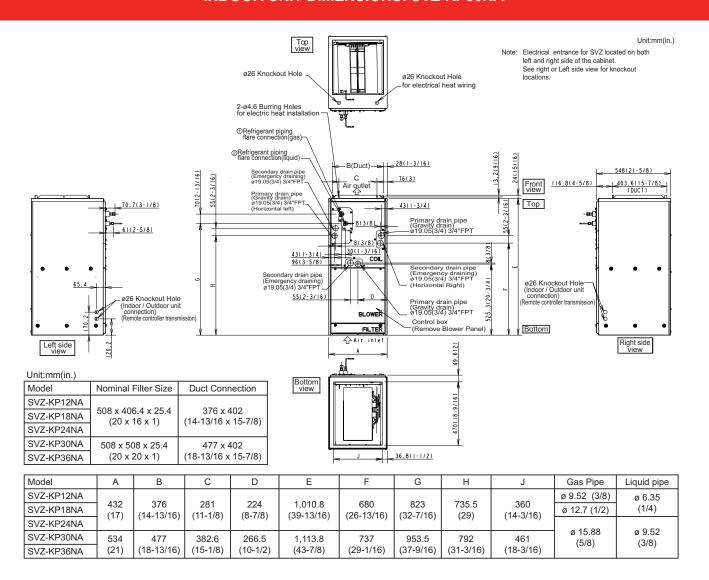
Control Interface	BACnet® and Modbus Interface	PAC-UKPRC001-CN-1
	CN24 Relay Kit	CN24RELAY-KIT-CM3
	Connector cable for remote display	PAC-SA88HA-EP
	IT Extender	PAC-WHS01IE-E
	kumo station® for kumo cloud®	PAC-WHS01HC-E
	Remote Operation Adapter [‡]	PAC-SF40RM-E
	Thermostat Interface	PAC-US444CN-1
	USNAP Adapter	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
	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
	Airzone ZBS Wired Blueface Principal Controller White	AZZBSBLUEFACECB
	Airzone ZBS Wired Lite Controller White	AZZBSLITECB
	Airzone ZBS Wired Think Controller White	AZZBSTHINKCB
	Airzone ZBS Wireless Lite Controller White	AZZBSLITERB
Wired Remote Controller	Airzone ZBS Wireless Think Controller White	AZZBSTHINKRB
	Deluxe Wired MA Remote Controller [†]	PAR-40MAAU
	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
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
0 1 1145	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
D: 10 11	(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-M
Electric Heat Lockout	Electric Heat Lockout	ETC-211000-MIT
	10kW Electric Heater	EH10-SVZ-M
Electric Kit Heats	5kW Electric Heater	EH05-SVZ-M
	8kW Electric Heater	EH08-SVZ-M
	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	MPLS385812T-10
	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

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

OUTDOOR UNIT ACCESSORIES: SUZ-KA30NAHZ

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SH96SG-E (two pieces are required)
Centralized Drain Pan	Central Drain Pan	PAC-SH97DP-E
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB/UART Conversion Cable (Required for all laptop connection)	M21EC1397
Drain Socket	Drain Socket	PAC-SH71DS-E
Hail Guards	Hail Guard	HG-A2
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	\$144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	\$164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	\$164-50
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
Stand	18" Dual Fan Stand	QSMS1802M
	24" Dual Fan Stand	QSMS2402M
	Outdoor Unit Stand — 12" High	QSMS1202M

INDOOR UNIT DIMENSIONS: SVZ-KP30NA



OUTDOOR UNIT DIMENSIONS: SUZ-KA30NAHZ

Unit: mm<in> 2-U Shaped notched holes (Foundation Bolt M10<W3/8>) <ZE/EZ-∠L> 057 i. <79/II-∠L>9E7 @⊙ Side Air Intoke Handle for moving <ZE/16 4 PIPING-WIRING DIRECTIONS Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below. Side Air Intake Rear Air Intake Please secure the unit firmly with 4 foundation (MO<W3/8>) bolts. (Bolts and washers must be purchased locally.) 3 FOUNDATION BOLTS Hande for moving 2 SERVICE SPACE Piping Knock-Out Hole Detailes *1 · · · Indication of VALVE connection location. (2) ···Refrigerant LIQUID pipe connection (FLARE)¢9,52(3/8F). (1) ···Refrigerant GAS pipe connection (FLARE)ø15.88(5/8F), The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc. 1 FREE SPACE (Around the unit) Example of Notes Min. 1000mm<39-3/8>

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