

M-SERIES

SUBMITTAL DATA: SEZ-KD18NA4 & SUZ-KA18NAHZ 18,000 BTU/H HORIZONTAL-DUCTED HEAT PUMP SYSTEMS



Job Name:

System Reference:

Date:

APPLIES TO INDOOR UNIT:

- ☐ SEZ-KD18NA4.TH
- ☐ SEZ-KD18NAR1.TH
- ☐ SEZ-KD18NA4R1.TH

Outdoor Unit:

SUZ-KA18NAHZ



INDOOR UNIT FEATURES

- Concealed horizontal-ducted unit for applications with short duct runs
- Quiet operation
- Ultra-thin body: 7-7/8" high
- Built-in condensate lift mechanism (lifts to 21-21/32")
- Multiple control options available:
 - kumo cloud[®] smart device app for remote access
 - Third-party interface options
 - Wired or wireless controllers
- Static capability up to 0.20 in. WG

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
- Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life
- Built-in base pan heater
- Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Pulse Amplitude Modulation technology

SPECIFICATIONS: SEZ-KD18NA4 & SUZ-KA18NAHZ

Cooling at 95°F ¹	Maximum Capacity	BTU/H	18,000
	Rated Capacity	BTU/H	18,000
	Minimum Capacity	BTU/H	9,200
	Maximum Power Input	W	1,370
	Rated Power Input	W	1,370
	Moisture Removal	Pints/h	2.00
	Sensible Heat Factor		0.87
	Power Factor (208/230V)	%	98
Heating at 47°F ²	Maximum Capacity	BTU/H	28,000
	Rated Capacity	BTU/H	21,600
	Minimum Capacity	BTU/H	8,800
	Maximum Power Input	W	3,230
	Rated Power Input	W	1,840
	Power Factor	%	97
Heating at 17°F ³	Maximum Capacity	BTU/H	21,600
	Rated Capacity	BTU/H	14,200
	Maximum Power Input	W	2,510
	Rated Power Input	W	1,650
Heating at 5°F ⁴	Maximum Capacity	BTU/H	21,600
	Maximum Power Input	W	2,100
Efficiency	SEER		19.10
	EER ¹		13.10
	HSPF (IV)		10.90
	COP at 47° F ²		3.40
	COP at 17°F in Maximum Capacity ³		2.68
	COP at 5°F in Maximum Capacity ⁴		1.75
	ENERGY STAR® certified units (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
	Short-circuit Current Rating (SCCR)	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	20
	Recommended Wire Size (Indoor - Outdoor)	AWG	14
Indoor Unit	MCA	A	1.13
	Fan Motor Full Load Amperage	A	0.90
	Fan Motor Output	W	96
	Airflow Rate, Dry	CFM	635-529-423
	Airflow Rate, Wet	CFM	572-476-381
	Sound Pressure Level (Cooling)	dB(A)	38-34-30
	Sound Pressure Level (Heating)	dB(A)	38-34-30
	External Static Pressure	in.WG	0.02-0.06-0.14-0.20
	Drain Pipe Size	In. (mm)	1-1/4 (32)
	Condensate Lift Mechanism, Maximum Distance	In. (mm)	21-21/32 (550)
	Heat Exchanger Type		Plate fin coil
	External Finish Color		Galvanized
	Unit Dimensions	W: In. (mm)	46 7/8 (1,190)
		D: In. (mm)	27-9/16 (700)
		H: In. (mm)	7-7/8 (200)
	Package Dimensions	W: In. (mm)	55-1/8 (1,400)

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			D: In. (mm)	35-7/16 (900)
			H: In. (mm)	14-3/16 (360)
	Unit Weight		Lbs. (kg)	62 (28)
	Package Weight		Lbs. (kg)	90 (41)
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)*		°F	90 DB / 72 WB // 68 DB / 61 WB
	Heating Intake Air Temp (Maximum / Minimum)		°F	77 DB // 59 DB
Outdoor Unit	MCA		A	17.0
	MOCP		A	31.0
	Fan Motor Full Load Amperage		A	1.0
	Fan Motor Output		W	60.0
	Airflow Rate		CFM	2,020 / 1,930
	Refrigerant Control			LEV
	Defrost Method			Reverse Cycle
	Heat Exchanger Type			Plate Fin Coil
	Blue Fin Coating on Heat Exchanger			Yes
	Sound Pressure Level (Cooling) ¹		dB(A)	55
	Sound Pressure Level, Heating ²		dB(A)	55
	Compressor Type			DC INVERTER-driven Twin Rotary
	Compressor Model			SNB220FQGMT
	Compressor Rated Load Amps		A	16
	Compressor Locked Rotor Amps		A	13
	Compressor Oil Type // Charge		oz.	FV50S // 23.7
	External Finish Color			Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater			Yes
	Unit Dimensions	W: In. (mm)	38-9/16 (840)	
		D: In. (mm)	13 (330)	
		H: In. (mm)	34-5/8 (880)	
	Package Dimensions	W: In. (mm)	38-9/16 (980)	
		D: In. (mm)	16-9/16 (420)	
		H: In. (mm)	39 (990)	
	Unit Weight		Lbs. (kg)	131 (59.5)
	Package Weight		Lbs. (kg)	150 (68)
Outdoor Unit Operating Temperature Range	Cooling Air Temp (Maximum / Minimum)*		°F	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**		°F	1 / 5
	Heating Air Temp (Maximum / Minimum)		°F	75 / -13
	Heating Thermal Lock-out / Re-start Temperatures**		°F	-18 / -14
Refrigerant	Type			R410A
	Charge	Lbs, oz	3, 12	
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
	Maximum Height Difference		Ft. (m)	50
	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
Conditions	⁴ Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB

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

**System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

ACCESSORIES: SEZ-KD18NA4

Filter Box with MERV 8 Filters	□ FBL1-3
Wireless Signal Receiver	□ PAR-SA9CA-E
Wireless Signal Receiver	□ PAR-FA32MA-W
Wireless Remote Controller	□ PAR-FL32MA-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller	□ PAR-40MAAU
Simple MA Controller	□ PAC-YT53CRAU-J
Touch MA Controller	□ PAR-CT01MAU-SB
Wired Remote Sensor	□ PAC-SE41TS-E
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN002-FM-1
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
Thermostat Interface	□ PAC-US445CN-1
kumo station® for kumo cloud®	□ 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
Wire for Remote on/off with CN32 connector	□ PAC-715AD
Connector and wire for Operation status/error using CN51	□ PAC-725AD
Connector cable for remote display	□ PAC-SA88HA-EP
Remote Operation Adapter ¹	□ PAC-SF40RM-E
Bottom Return Plate (Converts low-profile ducted indoor unit from rear return to bottom return)	□ BRP-3
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
Blue Diamond Alarm Extension Cable — 6.5 Ft.	□ C13-192
Blue Diamond MultiTank — collection tank for use with multiple pumps	□ C21-014
Blue Diamond Rubber Foot Pads	□ F10-010
Mini Condensate Pump — 230 volt application	□ SI30-230
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	□ COMBI
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W

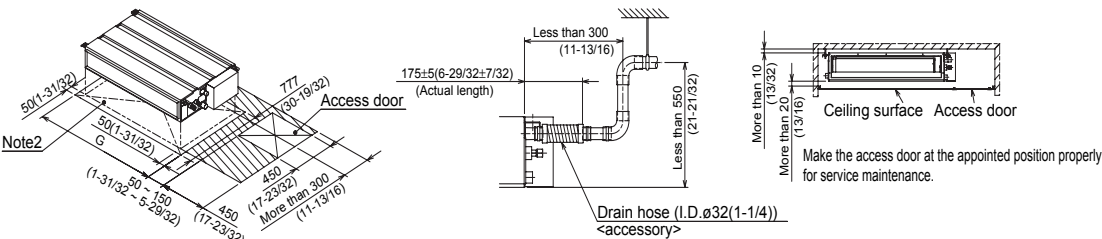
¹ Unable to use with wireless remote controller

ACCESSORIES: SUZ-KA18NAHZ

Air Outlet Guide	□ MAC-886SG-E
Optional Defrost Heater	□ MAC-642BH-U1
Hail Guard	□ HG-A7
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— Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel	□ QSWBSS
15' x 1/4" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-15
30' x 1/4" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-30
50' x 1/4" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-50
65' x 1/4" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-65
100' x 1/4" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MLS141212T-100
10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10

DIMENSIONS: SEZ-KD18NA4

Unit: mm (inch)



Required space for service and maintenance

mm (in.)

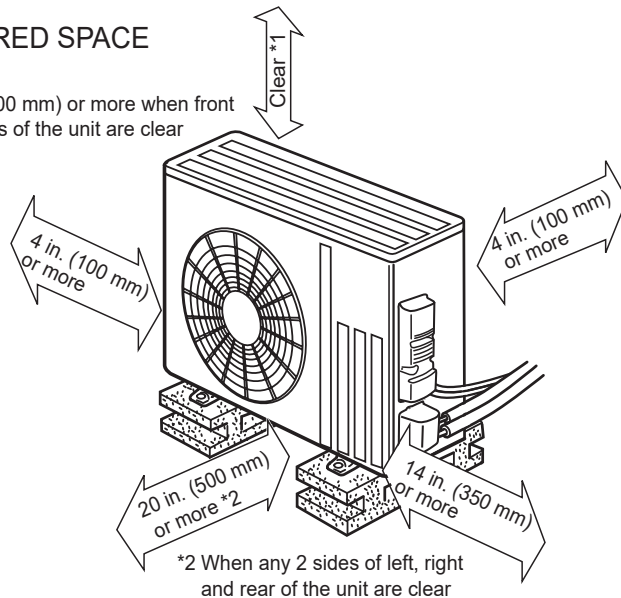
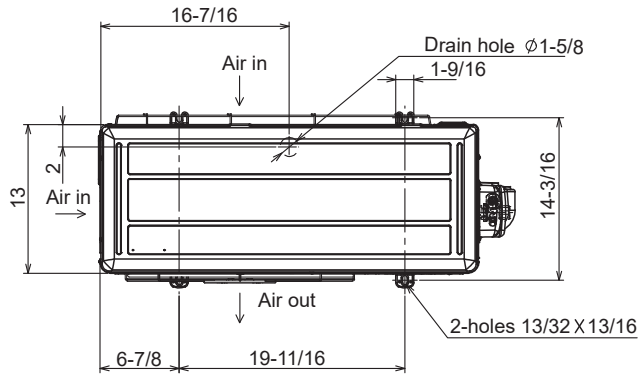
Sizes	A	B	C	D	E	F	G	H	J	K	L	M	N	① Gas pipe	② Liquid pipe
09 KBTU/H	700 (27-916)	752 (29-58)	798 (31-776)	660 (26)	7	600 (23-58)	800 (31-12)	660 (26)	5	500 (19-1116)	16	839 (33-116)	790 (31-18)	ø9.52(3/8)	ø6.35(1/4)
12 KBTU/H	900 (35-716)	952 (37-12)	998 (39-516)	860 (33-78)	9	800 (31-12)	1000 (39-38)	860 (33-78)	7	700 (27-916)	20	1039 (40-2932)	990 (39)		
15 KBTU/H															
18 KBTU/H	1100 (43-516)	1152 (45-38)	1198 (47-316)	1060 (41-34)	11	1000 (39-38)	1200 (47-14)	1060 (41-34)	9	900 (33-716)	24	1239 (48-2532)	1190 (46-78)	ø12.7(1/2)	

Note1. Use M10 screw for the suspension bolt (field supply).

2. Keep the service space for the maintenance at the bottom.
3. This chart indicates for size 15 kBTu/h model, which has 3 fans.
 Sizes 09,12 kBTu/h models have 2 fans.
 Sizes 08 kBTu/h model has 4 fans.
4. When an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

REQUIRED SPACE

*1 20 in. (500 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear

