



Comfort Where It Counts.

UNHA-S2CA
Universal Air Handler
Dual-Zone Cooling Only

Rev. 1.0 [07/07]

JOB NAME: _____ LOCATION: _____
 PURCHASER: _____
 ENGINEER: _____
 SUBMITTED TO: _____ FOR: REFERENCE [] APPROVAL [] CONSTRUCTION []
 SUBMITTED BY: _____ DATE: _____
 UNIT DESIGNATION: SCHEDULE #: _____ MODEL #: _____

Manufacturer reserves the right to change these specifications at any time without incurring obligation.



▲ PERFORMANCE: _____

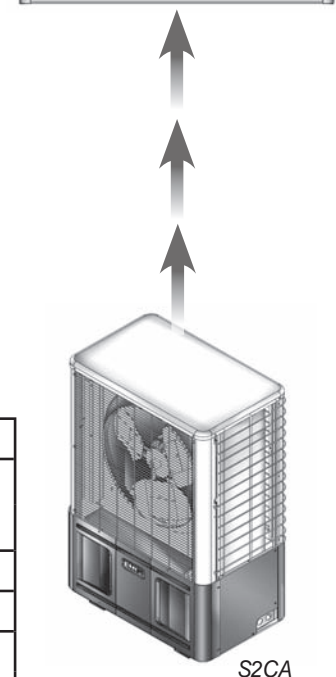
Performance certified in accordance with ARI 210/240

COOLING

Indoor design conditions: 80°F Dry Bulb / 67°F Wet Bulb
 Outdoor design conditions: 95°F



SYSTEM CAPACITIES					
Models		Cooling			
Indoor	Outdoor	Capacity Btuh (kW)	SEER	EER	SHR
(2) UNHA12	S2CA2200	23,000 (6.7)	13.00	12.00	0.73
(1) UNHA09	S2CA9200	21,000 (6.1)	13.00	11.60	0.73
(1) UNHA12					
(2) UNHA09	S2CA9900	18,000 (5.3))	13.00	11.50	0.73



CIRCUIT PERFORMANCE			
Models		Circuit	Cooling Capacity Btuh (kW)
Indoor	Outdoor		
(2) UNHA12	S2CA2200	1	11,500 (3.4)
		2	11,500 (3.4)
(1) UNHA09	S2CA9200	1	9,000 (2.6)
(1) UNHA12		2	11,500 (3.4)
(2) UNHA09	S2CA9900	1	9,000 (2.6)
		2	9,000 (2.6)



EMI ENGINEERING SUBMITTAL

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▲▼ **STANDARD FEATURES:**

INDOOR UNIT:

- Ceiling-Suspended or Floor Console mounted without any field modification
- Internally Enhanced Copper Tube/Enhanced Aluminum Fin Indoor Coil
- Unit-mounted, Infrared compatible control package, configurable to either unit mount or 24 Volt wall thermostat
- Control programming stored in non-volatile memory Unit will restart following power failure
- Indoor coil freeze protection
- Anti-short cycle compressor protection
- Fan purge
- Dry mode for humidity control (*requires electric heat*)
- Factory-installed condensate pan overflow protection
- Factory-supplied molex-type connector for condensate pump power and control connections
- 24-7 programming
- One year Limited Parts Warranty

Please use check-box to select Options and Accessories.

▲▼ **FACTORY INSTALLED OPTIONS:**

INDOOR UNIT

Power Connection:

- 115-1-60
- 208/230-1-60

Electric Heat:

- None
- 0.75 / 3.0 kW (115/230 Volt)

OUTDOOR UNIT

Power Connection:

- 115-1-60
- 208/230-1-60

Condenser Coil:

- Copper Tube/ Copper Fin
- Copper Tube/ Post-Coat Aluminum Fin

▲▼ **FIELD INSTALLED ACCESSORIES:**

INDOOR UNIT

Condensate Pump:

- 48" (1.2 m) Lift
- 144" (3.7 m) Lift
- Floor Mount Trim Kit** (*Required for Floor Mount with Condensate Pump accessory*)
- 24 Volt Wall Thermostat**
- Infrared Hand-held Controller**

OUTDOOR UNIT

- Low Ambient Accessory Kit** for cooling operation to 32° F (0° C)
- Wind Baffle/Hail Guard, Architectural Louver Kit** allows Low Ambient cooling operation to 0° F (-18° C) when used with Low Ambient Accessory Kit
- Hard Start**

Refrigerant Line Sets

- 10'
- 25'
- 50'

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ELECTRICAL SPECIFICATIONS

Indoor Unit	V-Ph-Hz	Voltage		Indoor Fan Motor		Heater		Unit FLA	MCA	MOCP
		Min	Max	RLA	HP	kW	Amps			
UNHA09 UNHA12	115-1-60	104	126	0.64	0.02	-	-	0.64	0.8	15
						0.75	6.50	7.14	8.9	15
	208/230-1-60	197	240	0.34	0.02	-	-	0.34	0.4	15
						3.00	13.04	13.38	16.7	20

Outdoor Unit	Power Supply V-1-60			Control* V-1-60	Compressor			Outdoor Fan Motor			Unit FLA	MCA	MOCP
	Volts	Min	Max		Qty	RLA	LRA	Qty	FLA	Hp			
S2CA2200	115-1-60	104	126	24	2	8.4	44	1	1.4	0.125	18.2	20.3	25
S2CA9200	115-1-60	104	126	24	1	6.7	29	1	1.4	0.125	16.5	18.6	25
					1	8.4	44	1	1.4	0.125			
S2CA9900	115-1-60	104	126	24	2	6.7	29	1	1.4	0.125	14.8	16.5	20

Outdoor Unit	Power Supply V-1-60			Control* V-1-60	Compressor			Outdoor Fan Motor			Unit FLA	MCA	MOCP
	Volts	Min	Max		Qty	RLA	LRA	Qty	FLA	Hp			
S2CA2200	208/230	197	240	24	2	4.5	21.0	1	0.8	0.125	9.8	11	15
S2CA9200	208/230	197	240	24	1	3.5	19.0	1	0.8	0.125	8.8	10	15
					1	4.5	21.0	1	0.8	0.125			
S2CA9900	208/230	197	240	24	2	3.5	19.0	1	0.8	0.125	7.8	8.7	15

Note: * - Control Voltage is supplied from the indoor unit. No separate supply required.

SOUND DATA

Unit	Sound dBA
UNHA09 or UNHA12	51
S2CA2200	65
S2CA9200	65
S2CA9900	64

Note: Sound data for indoor unit at high speed, 230 V
Sound data for outdoor unit at 230V

WEIGHT DATA

Unit	Weight, lbs (kg)
UNHA09	92 (41.8)
UNHA12	95 (43.2)
S2CA2200	167 (75.9)
S2CA9200	157 (71.3)
S2CA9900	129 (58.6)

INTERCONNECTING TUBING SPECIFICATIONS

Indoor Unit	Outdoor Unit	Maximum Separation Equivalent ft (m)	Maximum Elevation Difference ft (m)	Liquid Line OD	Suction Line OD	Condensate Line ID
UNHA09 or UNHA12	S2CA2200 S2CA9200 or S2CA9900	100 (30.5)	35 (10.7)	1/4"	1/2"	1/2"

INDOOR AIR FLOW

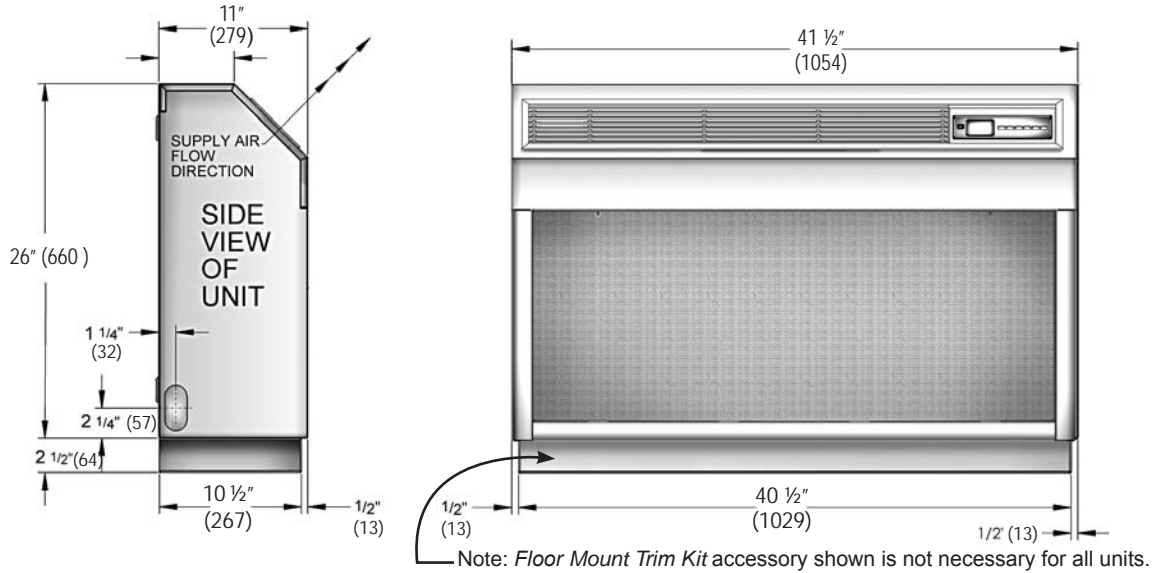
Indoor Unit	CFM (l/s)		Coil	ft/min (m/s)	Air Throw, ft. (m)
	High Speed	Low Speed			
UNHA09 or UNHA12	425 (200)	375 (175)	Dry	900 (4.6)	15 (4.6)

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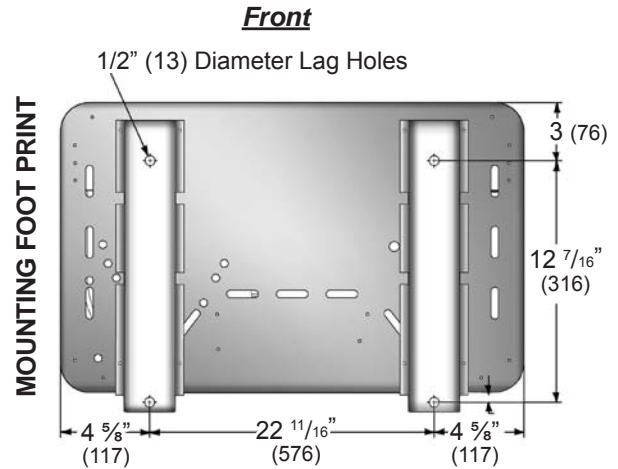
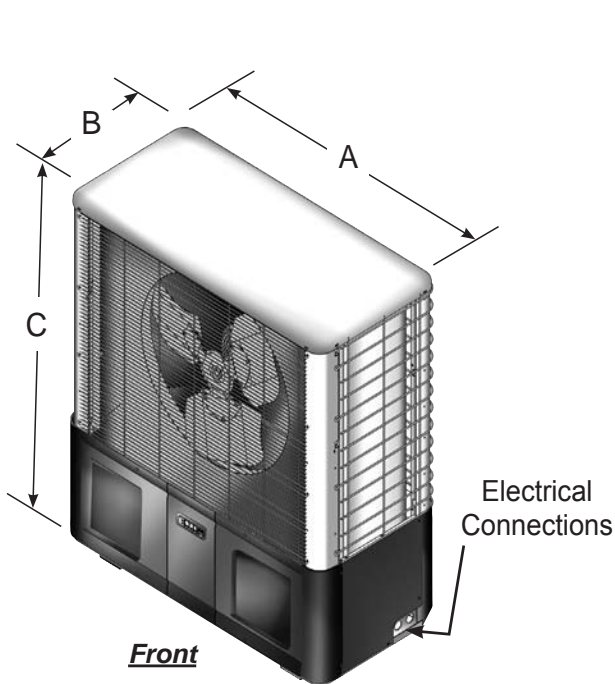
PHYSICAL DIMENSIONS

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INDOOR UNIT



OUTDOOR UNIT



PHYSICAL DIMENSIONS			
Configuration	"A" In. (mm)	"B" In. (mm)	"C" In. (mm)
99	32" (813)	15" (381)	36" (914)
22, 92	32" (813)	15" (381)	40" (1016)

Note: Numbers in () are mm.