



Comfort Where It Counts.

**CAH\_12-S2CA**  
Cassette Air Handler  
Dual-Zone Cooling Only

Rev. 1.2 [01/08]

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.

**Note:** CAH\_ = CAHA and/or CAHB



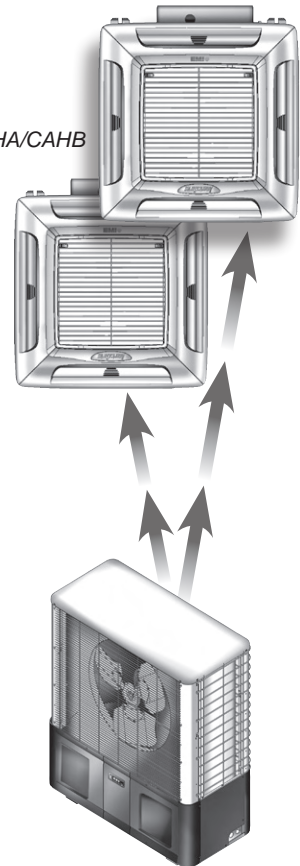
**▲ PERFORMANCE:**

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

CAHA/CAHB



S2CA

SYSTEM CAPACITIES					
Models		Cooling			
Indoor	Outdoor	Capacity Btuh (kW)	SEER	EER	SHR
(2) CAH_12	S2CA2200	23,000 (6.7)	13.00	11.4	0.74
(2) CAH_12	S2CA9200	20,400 (6.0)	13.00	11.4	0.77
(2) CAH_12	S2CA9900	17,600 (5.2)	13.00	11.3	0.81

CIRCUIT PERFORMANCE			
Models		Circuit	Cooling Capacity Btuh (kW)
Indoor	Outdoor		
(2) CAH_12	S2CA2200	1	11,500 (3.4)
		2	11,500 (3.4)
(2) CAH_12	S2CA9200	1	8,900 (2.6)
		2	11,500 (3.4)
(2) CAH_12	S2CA9900	1	8,800 (2.6)
		2	8,800 (2.6)



**EMI ENGINEERING SUBMITTAL**

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**▲ STANDARD FEATURES:**

**INDOOR UNIT:**

- In ceiling mounted unit
- Connections for 24V remote wall thermostat
- Custom control board with anti-short cycle timer
- Relays and connectors to condensing unit
- Condensate Pump with 36" (0.9 m) lift – from base of unit
- 24V / 40VA Transformer
- Fans are backward curved impeller centrifugal design
- Single fan w/fire retardant plastic impeller
- Fan purge for improved efficiency
- Freeze protection
- Motor is multispeed, enclosed type w/thermal protection and sealed lifetime bearings
- Permanent, washable filter (user accessible)
- Branch duct knockouts on two sides for remote discharge locations (Use up to 2 non-adjacent)
- Fresh air intake capability on two sides of cabinet

- Four plastic air vanes are equipped w/manually adjusted air vanes
- Custom Control Board with 7-day, 4 event/day, Programmability (CAHB12 only)
- Infrared Hand-Held Controller (CAHB12 only)
- One year Limited Parts Warranty

**OUTDOOR UNIT:**

- R-22 refrigerant
- Dual rotary compressors on separate circuits
- Side discharge / vertically arranged condenser
- Coated wire guard for coil and fan
- Duratec compressor protection package
  - Suction Accumulator
  - Filter dryer
  - Loss of charge switch

*Please use check-box to select Options and Accessories.*

**▲ FACTORY INSTALLED OPTIONS:**

**INDOOR UNIT**

***Power Connection:***

- 208/230-1-60

***Electric Heat:***

- None
- 1.5 kW (208/230 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**

- 24 Volt Wall Thermostat

**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'

**EMI ENGINEERING SUBMITTAL CAH\_12-S2CA**

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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			
CAH_12	208/230-1-60	197	240	0.35	0.1	-	-	0.4	0.5	15
						1.5	6.52	6.9	8.6	15

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						
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						
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	
	High	Low
CAH_12	41	39
	65	
S2CA2200	65	
S2CA9200	65	
S2CA9900	64	

**WEIGHT DATA**

Unit	Weight, lbs (kg)
CAH_12	70 (31.8)
S2CA2200	167 (75.9)
S2CA9200	157 (71.3)
S2CA9900	129 (58.6)

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

**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
CAH_12	S2CA2200 S2CA9200 or S2CA9900	100 (30.5)	35 (10.7)	1/4"	1/2"	1/2"

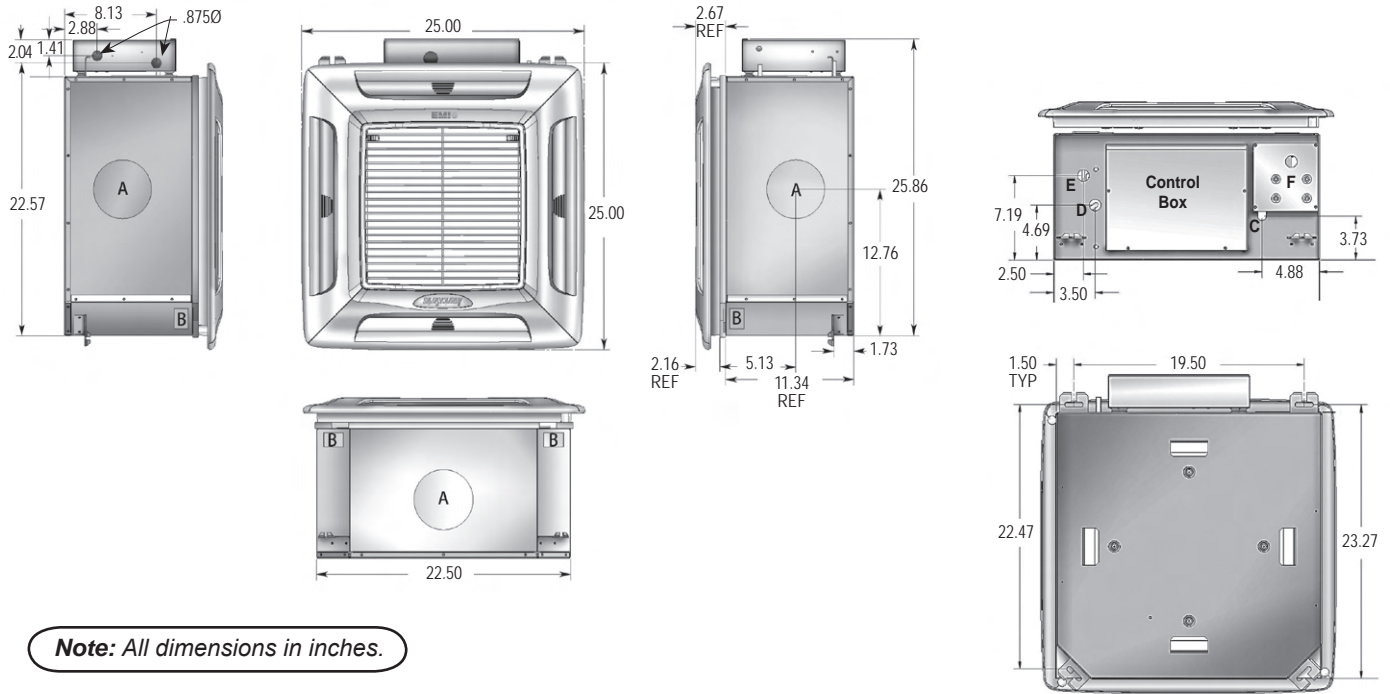
**INDOOR AIR FLOW**

Indoor Unit	CFM (l/s)		Coil	ft/min (m/s)	Air Throw, ft. (m)
	High Speed	Low Speed			
CAH_12	380 (180)	335 (158)	Dry	900 (4.6)	15 (4.6)

PHYSICAL DIMENSIONS

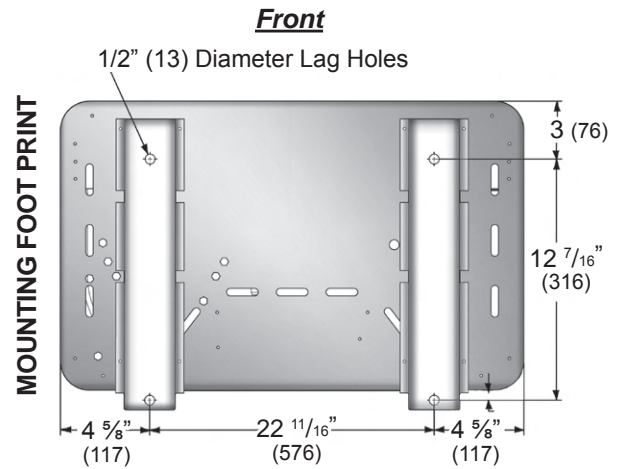
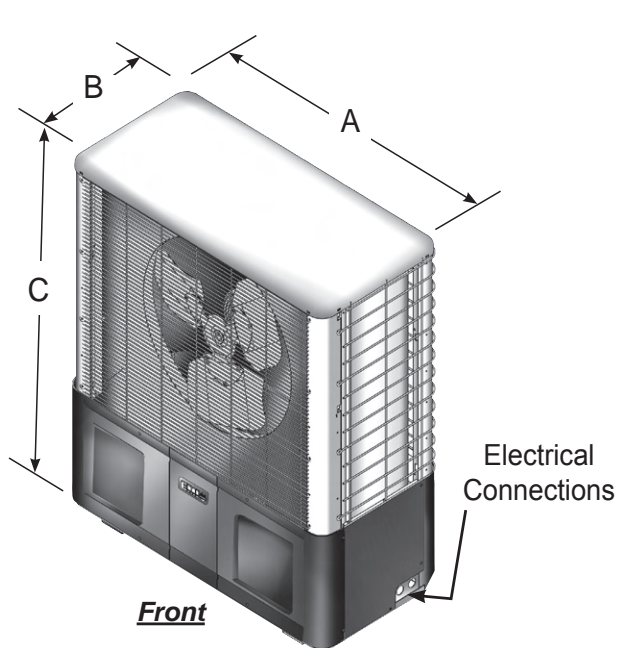
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INDOOR UNIT



Note: All dimensions in inches.

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.