



Comfort Where It Counts.

CAH\_24 -S1CA8000  
Cassette Air Handler  
Single-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



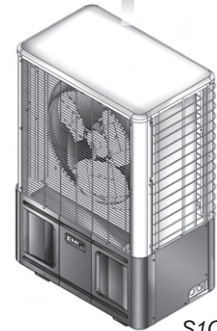
CAHA/CAHB

SYSTEM CAPACITIES					
Models		Cooling			
Indoor	Outdoor	Capacity	SEER	SHR	EER
CAH_24	S1CA8000	18,000 Btuh (5.3 kW)	13.0	0.76	12.3

▲ **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 with aluminum impeller
- Fan purge for improved efficiency
- Freeze protection
- Motors are multispeed, enclosed type w/thermal protection and sealed lifetime bearings



S1CA



EMI ENGINEERING SUBMITTAL

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▲ **STANDARD FEATURES:**

**INDOOR UNIT:** *Continued*

- Permanent, washable filter (user accessible)
- Branch duct knockouts on three sides for remote discharge locations (Use up to 2 non-adjacent)
- Fresh air intake capability on three sides of cabinet
- Four plastic air vanes; motor driven w/auto sweep or fixed position stop setting
- Custom Control Board with 7-day, 4 event/day, Programmability (CAHB24 only)
- Infrared Hand-Held Controller (CAHB24 only)
- One year Limited Parts Warranty

**OUTDOOR UNIT:**

- Side Condenser Air Discharge Unit
- Internally Enhanced Copper Tube/Enhanced Aluminum Fin Outdoor Coil
- R-22 Refrigerant
- High Pressure Switch (*manual reset*)
- Coated Wire Grille Condenser Coil Protection and Fan Guard
- Five years Limited Compressor Warranty, One year Limited Parts Warranty

Please use check-box to select Options and Accessories.

▲ **FACTORY INSTALLED OPTIONS:**

**INDOOR UNIT**

**Power Connection:**

- 208/230-1-60

**Electric Heat:**

- None
- 3.0 kW (208/230 Volt)

**OUTDOOR UNIT**

**Power Connection:**

- 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 operation to 0° F (-18° C) when used in conjunction with the Low Ambient Accessory Kit

- Hard Start**

**Refrigerant Line Sets**

- 10'
- 25'
- 50'

**EMI ENGINEERING SUBMITTAL CAH\_24-S1CA8000**

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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_24	208/230-1-60	197	240	0.55	0.125	-	-	0.6	0.7	15
						3.00	13.04	13.6	17.0	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			
S1CA8000	208/230	197	240	24	1	5.4	36.0	1	0.8	0.125	6.2	7.6	15

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

**SOUND DATA**

Unit	Sound dBA	
	High	Low
CAH_24	44	42
S1CA8000	62	

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

**WEIGHT DATA**

Unit	Weight, lbs (kg)
CAH_24	108 (49.1)
S1CA8000	156 (71)

**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_24	S1CA8000	100 (30.5)	35 (10.7)	3/8"	5/8"	1/2"

\* CAH\_24 Suction Connection size is 3/4" O.D. and must bush down at the CAH\_24 Unit.

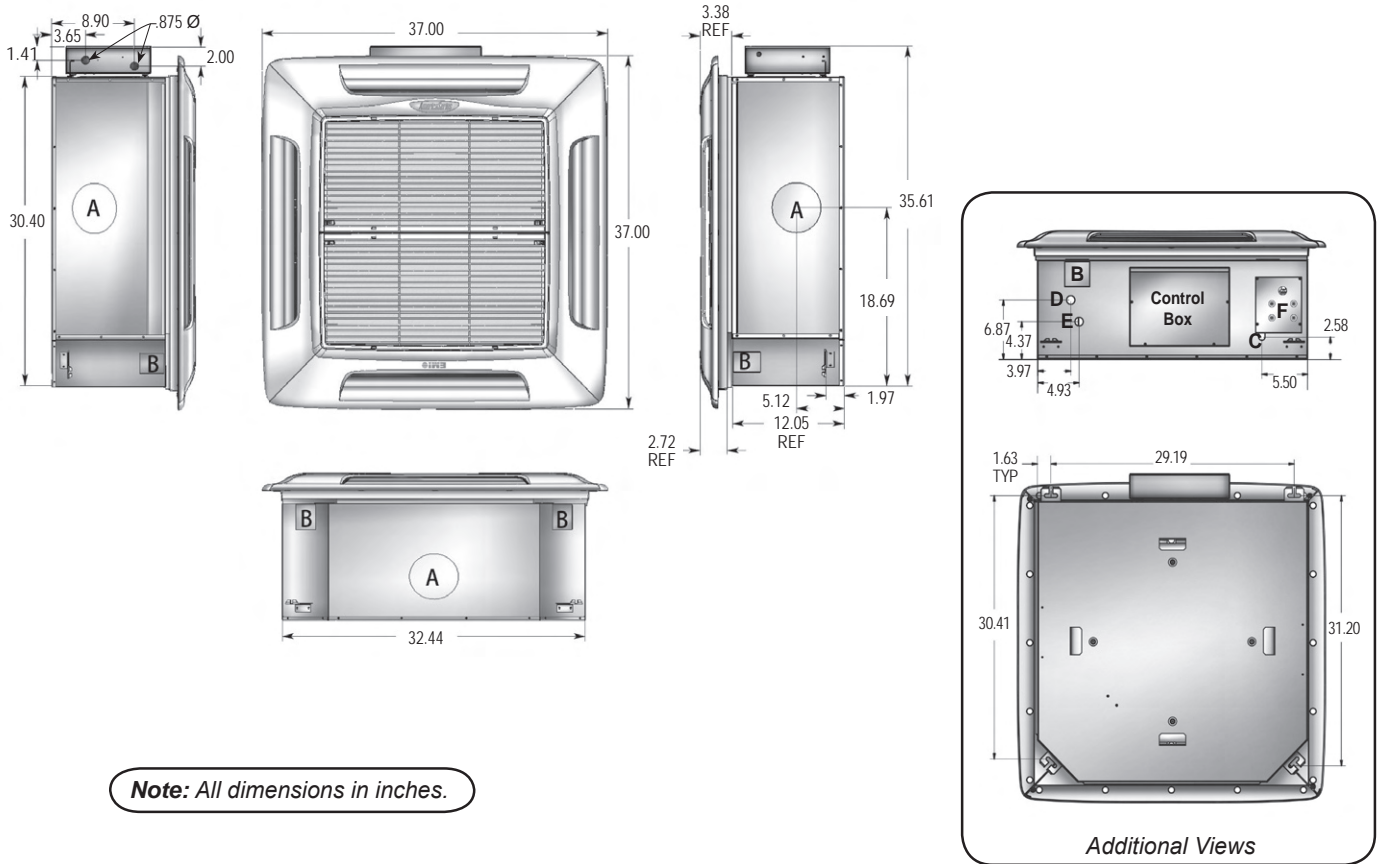
**INDOOR AIR FLOW**

Indoor Unit	CFM (l/s)		Coil	ft/min (m/s)	Air Throw, ft. (m)
	High Speed	Low Speed			
CAH_24	700 (330)	620 (293)	Dry	1,225 (6.2)	24 (7.3)

PHYSICAL DIMENSIONS

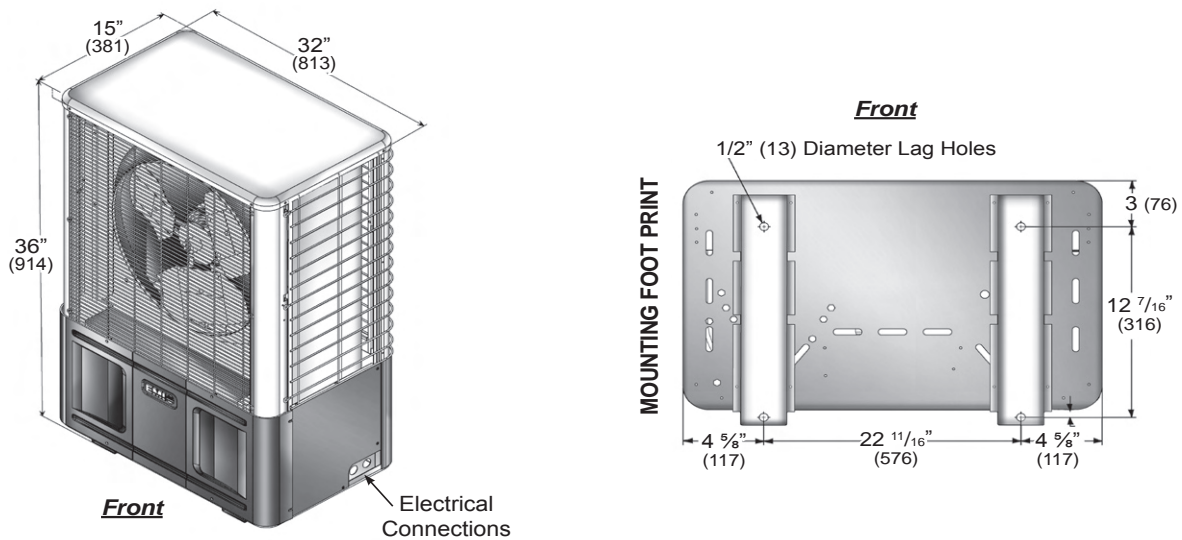
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INDOOR UNIT



\*18,000 Btuh must be bushed down to 5/8"

OUTDOOR UNIT



Note: Numbers in ( ) are mm.