

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**

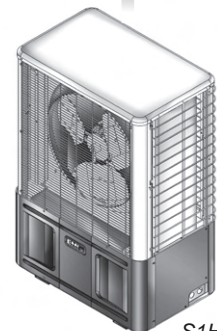
Indoor design conditions: 80°F Dry Bulb / 67°F Wet Bulb  
 Outdoor design conditions: 95°F

**HEATING**

Indoor design conditions: 70°F Dry Bulb / 57°F Wet Bulb  
 Outdoor design conditions (High): 47°F Dry Bulb / 43°F Dry Bulb  
 Outdoor design conditions (Low): 17°F Dry Bulb / 15°F Dry Bulb



CAHA/CAHB



S1HA

SYSTEM CAPACITIES					
Models		Cooling			
Indoor	Outdoor	Capacity	SEER	SHR	EER
CAH_24	S1HA8000	18,000 Btuh (5.3 kW)	13.0	0.78	12.0
		Heating			
		High Temperature	Low Temperature	HSPF	COP
		15,000 Btuh (4.4 kW)	8,800 Btuh (2.6 kW)	7.7	3.3

**▲ STANDARD FEATURES:** \_\_\_\_\_

**INDOOR UNIT:**

- In Ceiling Mounted
- 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



**EMI ENGINEERING SUBMITTAL**

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▲ **STANDARD FEATURES:**

**INDOOR UNIT:** *Continued*

- Fan purge for improved efficiency
- Freeze protection
- Motors are multispeed, enclosed type w/thermal protection and sealed lifetime bearings
- Permanent, washable filter (user accessible)
- Branch duct knockouts on three sides for remote discharge locations
- 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:**

- Single Zone, Heat Pump, Side Discharge Unit
- Standard Operating Low Ambient in Cooling 32 °F (0 °C)
- Internally Enhanced Copper Tube/Enhanced Aluminum Fin Outdoor Coil
- R-22 Refrigerant
- Suction Line Accumulator
- High Pressure Switch (*manual reset*)
- Factory Installed Compressor Start Assist Capacitor
- 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**

Wind Baffle /Hail Guard, Architectural Louver Kit (required for cooling operation to 0° F (-18° C))

**Refrigerant Line Sets**

10'

25'

50'

**EMI ENGINEERING SUBMITTAL CAH\_24-S1HA8000**

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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
						3.0	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			
S1HA8000	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
S1HA8000	62	

**WEIGHT DATA**

Unit	Weight, lbs (kg)
CAH_24	108 (49)
S1HA8000	156 (71)

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_24	S1HA8000	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.

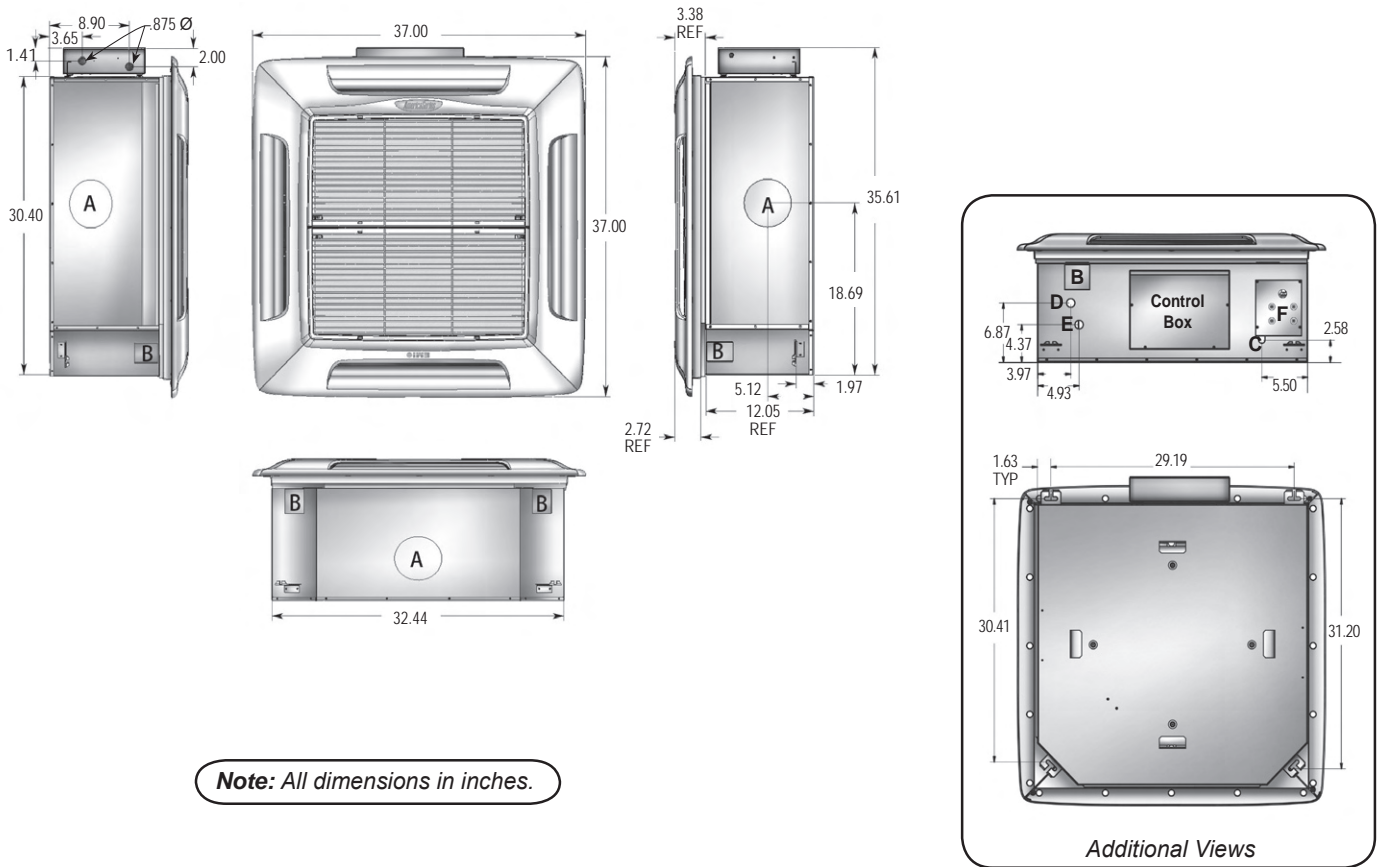
**INDOOR AIR FLOW**

Indoor Unit	CFM (l/s)		Coil
	High Speed	Low Speed	
CAH_24	700 (350)	620 (293)	Dry

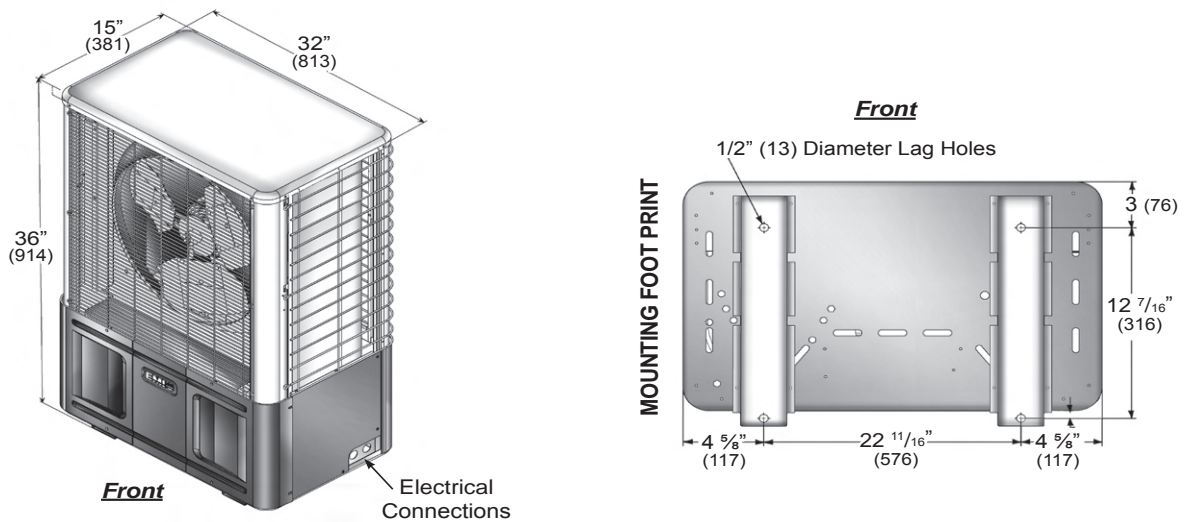
PHYSICAL DIMENSIONS

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INDOOR UNIT



OUTDOOR UNIT



Note: Numbers in ( ) are mm.