

CAH_24-S1HA4000 Cassette Air Handler Single - Zone Heat Pump

Rev. 1.1 [09/07]

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.

Note: CAC_ = CACA and/or CACB

PERFORMANCE: -

Performance certified in accordance with ARI 210/240

<u>COOLING</u>

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

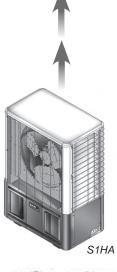
HEATING

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



Bulb Bulb

SYSTEM CAPACITIES								
Мо	dels	Cooling						
Indoor	Outdoor	Capacity	SEER	SHR	EER			
		23,000 Btuh (6.7 kW)	13.0	0.69	11.7			
	S1HA4000	Heating						
CAH_24		High Temperature	Low Temperature	HSPF	СОР			
		20,000 Btuh (5.9 kW)	11,700 Btuh (3.4 kW)	7.7	3.3			





EMI ENGINEERING SUBMITTAL CAH_24-S1HA4000

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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 with aluminum impeller
- 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 (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:

- 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:	FIELD INSTALLED ACCESSORIES:
INDOOR UNIT	INDOOR UNIT
Power Connection:	24 Volt Wall Thermostat
208/230-1-60	
Electric Heat:	
None None	
3.0 kW (208/230 Volt)	
OUTDOOR UNIT	OUTDOOR UNIT
Power Connection:	Wind Baffle /Hail Guard, Architectural Louver
208/230-1-60	<i>Kit</i> (required for cooling operation to 0° F (-18° C))
Condenser Coil:	
Copper Tube/ Copper Fin	Refrigerant Line Sets
Copper Tube/ Post-Coat Aluminum Fin	10'
	25'
	50'

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ELECTRICAL SPECIFICATIONS

Indoor	V-Ph-Hz	Voltage		Indoor Fan		Heater		Unit	МСА	МОСР											
Unit	V-F11-F12	Min	Max	RLA	HP	kW	Amps	FLA	INICA	WICCP											
CAH 24	208/230-1-60	197 2	107	107	107	107	107	107	107	107 240	240	0.55 0.105	0.55	0.55	0.55	0.55	-	-	0.6	0.7	15
	200/230-1-00	197	240	0.55 0.125	3.00	13.04	13.6	17.0	20												

Outdoor Unit	Power Supply V-1-60		Control* Compressor Outdoor Fan Moto		Motor	Unit FLA	МСА	МОСР					
Onit	Volts	Min	Max	V-1-00	Qty	RLA	LRA	Qty	FLA	HP	FLA		
S1HA4000	208/230	197	240	24	1	8.0	53.5	1	0.8	0.125	8.8	10.8	15

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

SOUND DATA

Unit	Sound dBA				
CAH_24	High	Low			
	44	42			
S1HA4000	63				

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

WEIGHT DATA

Unit	Weight, Ibs (kg)
CAH_24	116 (53)
S1HA4000	156 (71)

INTERCONNECTING TUBING SPECIFICATIONS

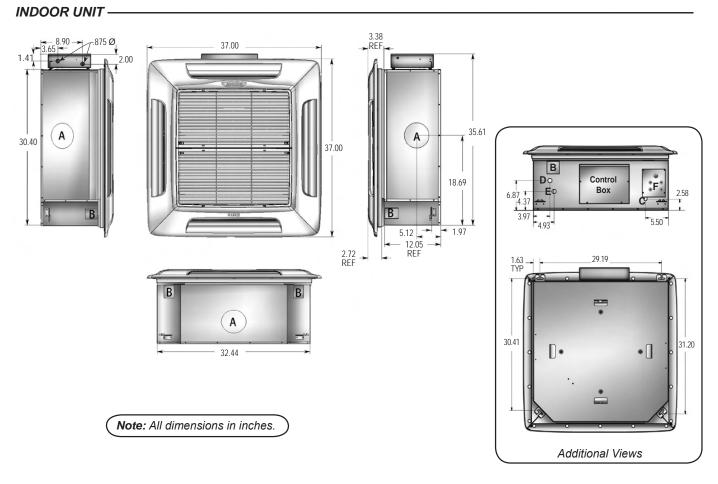
	oor	Outdoor	Maximum Separation,	Maximum Elevation	Liquid	Suction	Condensate
	nit	Unit	Equivalent ft (m)	Difference, ft (m)	Line OD	Line OD	Line ID
CAH	1_24	S1HA4000	100 (30.5)	35 (10.7)	3/8"	3/4"	1/2"

INDOOR AIR FLOW

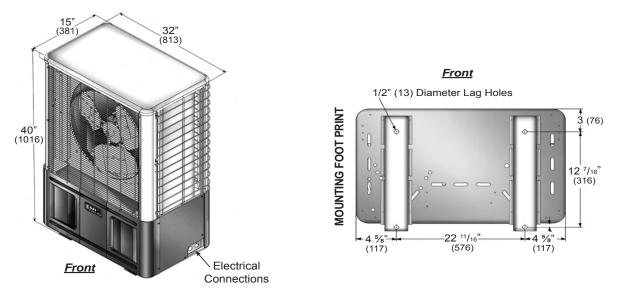
Γ	Indoor Unit	CFN	1 (I/s)	Coil	ft/min (m/c)	Air Throw ft (m)	
	maoor onit	High Speed	Low Speed	Coil	ft/min (m/s)	Air Throw, ft. (m)	
	CAH_24	700 (330)	620 (293)	Dry	1,225 (6.2)	24 (7.3)	

PHYSICAL DIMENSIONS

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OUTDOOR UNIT



Note: Numbers in () are mm.