

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

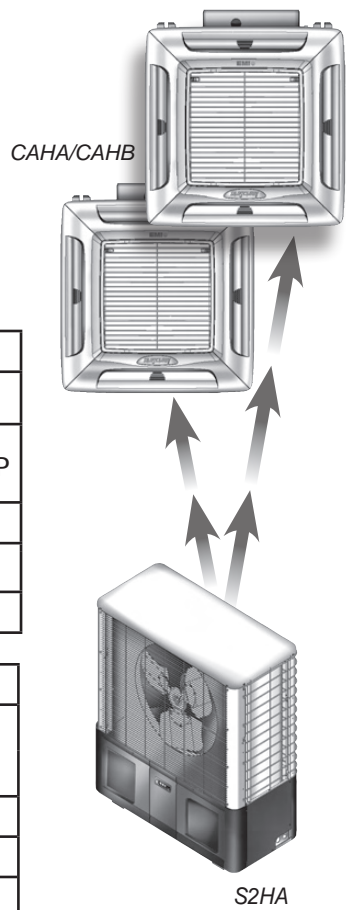
Note: 35°F ambient, minimum operating temperature for compressor.
System will automatically switch to electric heat if option is ordered.

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



| SYSTEM CAPACITIES | | | | | | | |
|-------------------|----------|--------------------|-------|------|------|-------------------------------------|-----|
| Models | | Cooling | | | | Heating | |
| Indoor | Outdoor | Capacity Btuh (kW) | SEER | EER | SHR | High Temperature Capacity Btuh (kW) | COP |
| (2) CAH_12 | S2HA2200 | 22,600 (6.6) | 13.00 | 11.6 | 0.75 | 20,000 (5.9) | 3.1 |
| (2) CAH_12 | S2HA9200 | 20,600 (6.0) | 13.00 | 11.6 | 0.77 | 18,000 (5.3) | 3.1 |
| (2) CAH_12 | S2HA9900 | 18,600 (5.4) | 13.00 | 11.7 | 0.79 | 15,700 (4.6) | 3.1 |

| CIRCUIT PERFORMANCE | | | | |
|---------------------|----------|---------|----------------------------|----------------------------|
| Models | | Circuit | Cooling Capacity Btuh (kW) | Heating Capacity Btuh (kW) |
| Indoor | Outdoor | | | |
| (2) CAH_12 | S2HA2200 | 1 | 11,300 (3.3) | 10,000 (2.9) |
| | | 2 | 11,300 (3.3) | 10,000 (2.9) |
| (2) CAH_12 | S2HA9200 | 1 | 9,300 (2.7) | 8,000 (2.3) |
| | | 2 | 11,300 (3.3) | 10,000 (2.9) |
| (2) CAH_12 | S2HA9900 | 1 | 9,300 (2.7) | 8,000 (2.3) |
| | | 2 | 9,300 (2.7) | 8,000 (2.3) |



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 (CAHB24 only)
- One year Limited Parts Warranty

OUTDOOR UNIT:

- Side Condenser Air Discharge Unit
- Dual Independent Circuits
- Standard Operating Low Ambient in Cooling 32°F (0°C)
- Internally Enhanced Copper Tube/Enhanced Aluminum Fin Outdoor Coil
- R-22 Refrigerant
- Factory installed Hard Start Assist
- Duratec compressor protection package
 - Suction Accumulator
 - Filter Drier
 - Loss of Charge Switch
 - Crankcase heater
 - Start assist
- 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
- 1.5 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

Refrigerant Line Sets

- 10'
- 25'
- 50'

EMI ENGINEERING SUBMITTAL CAH_12-S2HA

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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 | | | |
| S2HA2200 | 208/230 | 197 | 240 | 24 | 2 | 4.3 | 27.0 | 1 | 1.8 | 0.33 | 10.4 | 11.5 | 15 |
| S2HA9200 | 208/230 | 197 | 240 | 24 | 1 | 3.4 | 23.0 | 1 | 1.8 | 0.33 | 9.5 | 10.6 | 15 |
| | | | | | 1 | 4.3 | 27.0 | | | | | | |
| S2HA9900 | 208/230 | 197 | 240 | 24 | 2 | 3.4 | 23.0 | 1 | 1.8 | 0.33 | 8.6 | 9.5 | 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 | |
| S2HA2200 | 65 | |
| S2HA9200 | 65 | |
| S2HA9900 | 64 | |

WEIGHT DATA

| Unit | Weight, lbs (kg) |
|----------|------------------|
| CAH_12 | 70 (31.8) |
| S2HA2200 | 197 (89.5) |
| S2HA9200 | 187 (85.0) |
| S2HA9900 | 159 (72.3) |

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 | S2HA2200 S2HA9200 or S2HA9900 | 100 (30.5) | 35 (10.7) | 1/4" | 1/2" | 1/2" |

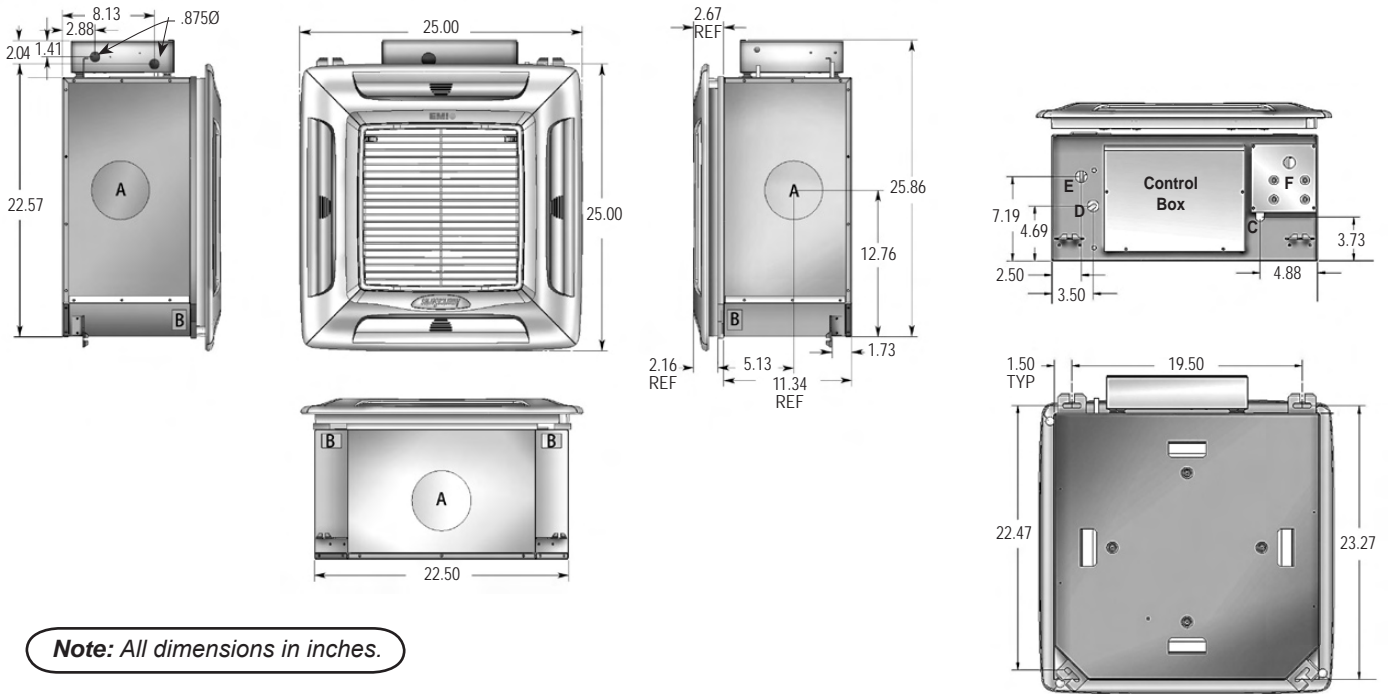
INDOOR AIR FLOW

| 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

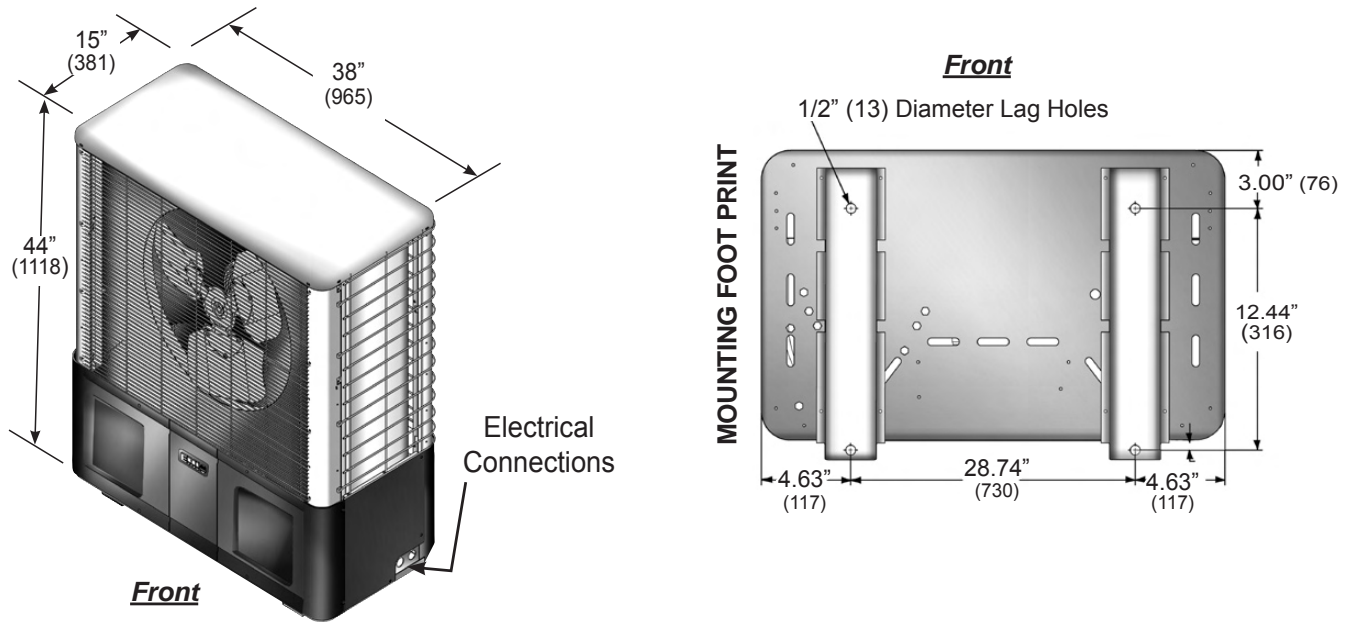
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INDOOR UNIT



Note: All dimensions in inches.

OUTDOOR UNIT



Note: Numbers in () are mm.