



DATE: October 1, 2007

PRODUCT: CACB/CAHB

CACB/CAHB Cassette Air Handler Release

EMI is pleased to announce the release of the CACB/CAHB Cassette Air Handlers.

The CACB/CAHB Cassette Air Handlers utilize a control system that can be controlled by an Infrared Hand Held Remote or a Wall Thermostat. The CACB/CAHB has many Installer-friendly features.

Standard Features include:

- Infrared Hand Held Remote included.
- Anti-Short Cycle Compressor Protection prevents rapid cycling of the unit.
- Freeze Protection to prevent evaporator freeze up.
- Fresh Air Intake options, two on the CAHB12, three on both the CAHB24 and CACB36 for fresh air introduction into the space.
- Branch Duct Knockouts for remote duct feeds for up to two non-adjacent sides.
- An integral condensate pump with 36" (0.9 m) lift is provided with an integral safety switch to monitor the drain pan which shuts down the unit before a problem occurs.
- CAHB24 and CACB36 are equipped with oscillating louvers for better air distribution. This feature can be disabled. The CAHB12 unit is equipped with manually adjustable supply air louvers.
- ETL Approved
- CEC Compliant

Features with Optional Hand Held Controller

- The Operational Range is adjustable between 55°F and 90°F (13°C and 32°C) in one-degree increments.
- Selectable Fahrenheit (°F) or Centigrade (°C) temperature scale
- Large LCD display with a back light on the hand held controller. A battery saving "sleep mode" feature reduces battery power consumption when the remote is not in use. Pressing any key wakes the controller.
- Operational Modes include: Heat, Cool, Dry, Fan and Auto change-over.
- Dry Mode will cycle cooling operation with fan in low speed for humidity

removal, while attempting to maintain room temperature.

- Three different fan modes are available, constant fan at High or Low speed and Auto Ramping to change speeds for the Operational Mode.
- Minimum on time for heating and cooling to help avoid system short cycling.
- Test Operation allows for easier testing for the system after installation or service by eliminating all timers.
- Non-volatile back-up memory maintains control settings for an indefinite time during a power outage. When power is restored the equipment will resume operation after a three-minute compressor time delay.
- 7-day, four events/day, programmable schedule with a copy feature for quick and easy set-up.
- A Filter Maintenance Indicator provides a reminder to the user that the filter should be cleaned or changed. This timer is a user selected time interval that can be tailored to the application needs.

Wall mounted thermostat Features

- Optional wall mounted thermostat can be used in either a straight cool electric heat application or cooling/heat pump with second stage electric heat.
- Compatible with fossil fuel, electric heat, mercury, electronic and power stealing thermostats

Approved combination ratings with the Cassette air handlers and Single Zone Condensing Units and Heat Pumps are listed below. These units can be applied to Multizone Condensing Units and Heat Pumps also. For specific multizone combination data, refer to the Specification and Performance Data Sheets.

Straight Cooling:

Capacity (BTUH) SEER/EER SHR	S1CA9000	S1CA2000	S1CA8000	S1CA4000	SC1A3000	S1CA6000
	Cassette Units					
CAHB12	9,000 13.0/11.7 0.79	11,800 13.0/12.2 0.72				
CAHB24			18,000 13.0/12.3 0.76	23,000 13.0/11.8 0.67		
CACB36					30,000 13.0/12.0 0.82	36,000 13.0/12.0 0.74

Heat Pump:

	Duty	S1HA9000	S1HA2000	S1HA8000	S1HA4000
		Capacity (Btuh) SEER/EER SHR	Capacity (Btuh) HSPF/COP	Capacity (Btuh) HSPF/COP	Capacity (Btuh) HSPF/COP
CAHB12	Cooling	9,000 13.0/11.6 0.80	11,800 13.0/11.4 0.72		
	47 °F Heating	8,000 7.7/3.3	10,800 7.7/3.4		
	17 °F Heating	4,800	6,000		
CAHB24	Cooling			18,000 13.0/12.0 0.78	23,000 13.0/11.7 0.69
	47 °F Heating			15,000 7.7/3.3	20,000 7.7/3.3
	17 °F Heating			8,800	11,700

Note: Ratings in ***Bold Italics*** do not appear in the ARI Certified Directory.

Model	Voltage	Electric Heat kW	MCA	MOCP
CAHB12D0	208/230-1-60	None	0.5	15
CAHB12D1		1.5	8.6	15
CAHB24D0		None	0.7	15
CAHB24D3		3.0	17.0	20
CACB36D0		None	1.2	15
CACB36D5		5.0	28.3	30

Note: MCA – Minimum Circuit Ampacity

MOCP - Maximum Overcurrent Protection Device Amps, Fuse or HACR Breaker.

The following units are available:

- CAHB12D0 – DX, Heat Pump Compatible, Cassette, 9,000/12,000 Btuh (2.6/3.5 kW), 208/230-1-60, Infrared or Wall Thermostat Compatible, No Electric Heat
- CAHB12D1 – DX, Heat Pump Compatible, Cassette, 9,000/12,000 Btuh (2.6/3.5 kW), 208/230-1-60, Infrared or Wall Thermostat Compatible, 1.5 kW Electric Heat
- CAHB24D0 – DX, Heat Pump Compatible, Cassette, 18,000/24,000 Btuh (5.2/7.0 kW), 208/230-1-60, Infrared or Wall Thermostat Compatible, No Electric Heat
- CAHB24D3 – DX, Heat Pump Compatible, Cassette, 18,000/24,000 Btuh (5.2/7.0 kW), 208/230-1-60, Infrared or Wall Thermostat Compatible, 3.0 kW Electric Heat
- CACB36D0 – DX, Cooling Only, Cassette, 30,000/36,000 Btuh (8.8/10.5 kW), 208/230-1-60, Infrared or Wall Thermostat Compatible, No Electric Heat
- CACB36D5 – DX, Cooling Only, Cassette, 30,000/36,000 Btuh (8.8/10.5 kW), 208/230-1-60, Infrared or Wall Thermostat Compatible, 5.0 kW Electric Heat

Model information for the new Infrared/Wall Thermostat Compatible Cassette are as follows:

Part No.	Cassette Air Handler, No Electric Heat
CAHB12D0	CAH,B,09/12,208/230V,NO HT,W/PUMP
CAHB24D0	CAH,B,18/24,208/230V,NO HT,W/PUMP
CACB36D0	CAC,B,30/36,208/230,NO HT,W/PUMP
Part No.	Cassette Air Handler, With Electric Heat
CAHB12D1	CAH,B,09/12,208/230V,1.5KW,W/PUMP
CAHB24D3	CAH,B,18/24,208/230V,3KW,W/PUMP
CACB36D5	CAC,B,30/36,208/230,5KW,W/PUMP

Several Accessories are available for this product family.

Description	Part Number
Thermostat, Manual Changeover, Single Stage, Cool-Heat	240003926
Thermostat, Manual Changeover, Two Stage, Cool-Heat	240004180

Standard lead times apply for the CACB/CAHB.

EMI will continue to offer the current CACA/CAHA models for use in wall thermostat applications. The two "A" and "B" models have identical performance characteristics. As a result, the ARI Directory matches as well as the product literature denotes the units as CAC_/CAH_, designating both "A" and "B" models.

The Specification and Performance, Engineering Submittals, and the Installation, Operation and Maintenance manual are available on the website.

For additional information, contact the EMI Technical Services Group AT 800-325-5479.