



CBBL12C Shown

### Features

- The most compact ductable air handler
- Integrated 3-way bypass valve
- Modulating flow control valve
- Rotatable blower with high-efficiency PSC motor
- Deep condensate pan is insulated, and includes anti-slosh, antifungal foam lining
- Includes: remote air bleed valve, mounting feet, hose adapter, and air filter
- Left side water connections standard; right side special order

CBBL air handlers are ductable units with a built-in bypass valve and a high-efficiency blower. These compact models are designed to be installed in a cabinet or other enclosed space, with discharge air ducted to grills high in the cabin. Units are available in capacities from 3,000 to 24,000 Btu/hr, and can be used with any circulated water system. Capacity will vary with water temperature.

The squirrel cage blower housing is insulated, and can be rotated over 110°. The high-efficiency permanent split capacitor (PSC) motor is internal to the blower wheel and housing (except on the CBBL24C model). The result is a quiet unit with excellent performance and good speed control, especially when used with a Cruisair SMX series control.

An integrated 3-way bypass valve controls the flow of loop water through or around the coil. This permits cabin temperature to be maintained accurately, and independently of blower operation. The bypass valve has brass and stainless steel components, and also has removable powerhead for simple servicing. A loop water change-over thermostat is also included for cooling and heating applications.

Each CBBL unit also includes a modulating flow control valve to ensure proper water distribution to all air handlers. When used with a Cruisair Modular Tempering Unit, a completely “balanced” system is possible where each component receives the design flow rate of water regardless of system pressure fluctuation. This eliminates the tedious job of trying to maximize performance by adjusting valves at each air handler.

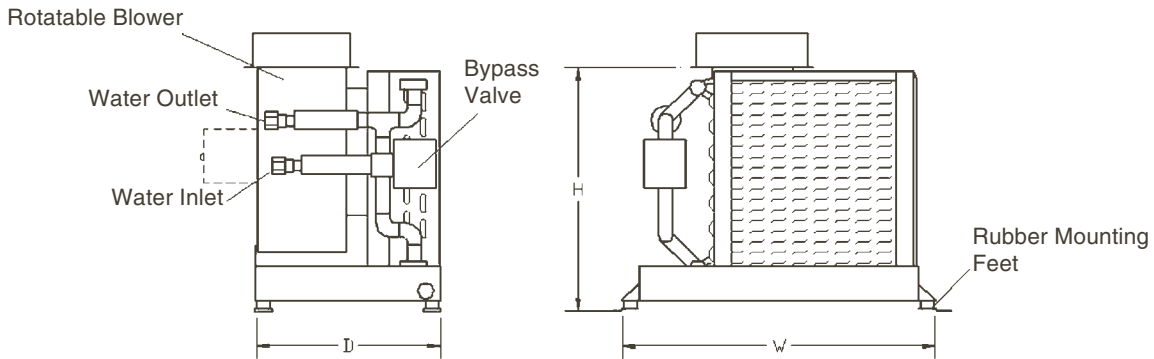
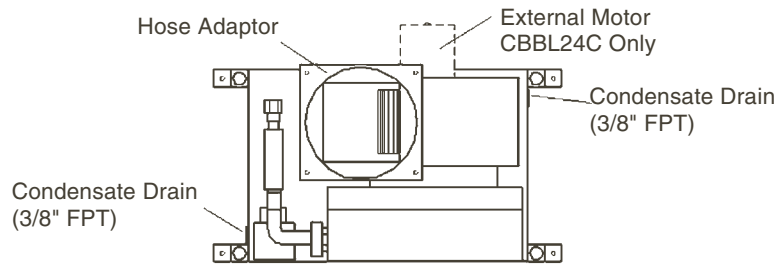
The condensate pan, blower housing, and all metal surfaces over which air passes are covered with insulating foam, reducing noise and secondary condensation. The condensate pan has an anti-slosh, antifungal foam lining. It also includes rubber mounting feet for noise and vibration control, and easy installation.

The included electrical box has a three foot (1 m) wire harness so it can be mounted in an accessible location. A hose adapter, remote air bleed valve, and air filter are also included.

Water connections are female NPT fittings. Standard location is on the back, left side of unit (looking into the coil). Right side connections are available by ordering a CBBR model.

Cruisair air handlers can be used with a rotary-knob switch assembly, or with either the SMX II or SMX Net microprocessor control systems and an SMXir keypad/display. The SMX II or SMX Net power/logic box must be ordered separately.

Unit Size (Btu/hr)	Water Connections
3-6,000	1/2" FPT
7.5-9,000	1/2" FPT
12,000	1/2" FPT
15-18,000	3/4" FPT
24,000	3/4" FPT

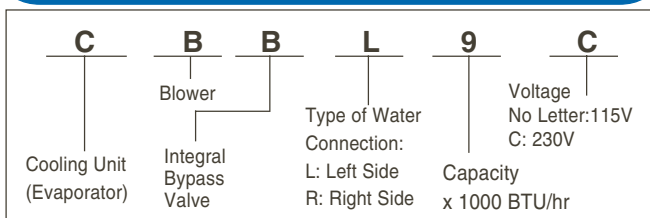


### TECHNICAL SPECIFICATIONS

Model	Capacity (Btu/hr)	Voltage	Freq. (Hz)	Blower Amps	Dimensions (in/mm)			Weight (lb/kg)	Air Flow (cfm/cmh)
					H	W	D		
CBBL3	3,000	115	50/60	1.2	10.5/265	17/430	9.3/235	21/9.5	200/335
CBBL3C		230		0.6					
CBBL4.5	4,500	115	50/60	1.2	10.5/265	17/430	9.3/235	21/9.5	200/335
CBBL4.5C		230		0.6					
CBBL6	6,000	115	50/60	1.2	10.5/265	17/430	9.3/235	21/9.5	200/335
CBBL6C		230		0.6					
CBBL7.5	7,500	115	50/60	1.3	12.5/320	18.3/465	9.5/240	26/11.8	300/500
CBBL7.5C		230		0.7					
CBBL9	9,000	115	50/60	1.3	12.5/320	18.3/465	9.5/240	26/11.8	300/500
CBBL9C		230		0.7					
CBBL12	12,000	115	50/60	1.4	14.5/370	18.5/470	10.5/265	29/13.2	400/670
CBBL12C		230		0.7					
CBBL15	15,000	115	50/60	1.8	15.8/400	21.5/546	11.8/300	36/16.4	550/935
CBBL15C		230		0.9					
CBBL18	18,000	115	50/60	1.8	15.8/400	21.5/546	11.8/300	36/16.4	550/935
CBBL18C		230		0.9					
CBBL24/18C	20,000	230	50/60	0.9	17/430	23.3/590	14.8/375	57/25.9	550/935
CBBL24C1	24,000	230	50/60	3.0	17/430	23.3/590	14.8/375*	62/28.2	800/1340

\* CBBL24C1 unit has an external blower motor, which increases depth dimension "D" by 4" for a total of 19" (480mm)

### INTERPRETING MODEL NUMBERS



### RECOMMENDED GRILL & DUCT SIZES

Unit Capacity BTU/hr	Minimum Return Air Grill Size (sq in/cm)	Minimum Discharge Grill Size (sq in/cm)	Duct Size (in/mm)
3,000 - 6,000	72/465	36/233	5/125
7,500 - 9,000	100/646	49/317	6/150
12,000	120/775	70/452	7/175
15,000 - 18,000	196/1266	90/581	8/200
24,000	255/1647	120/775	9/225

**Dometic Corporation**  
Environmental Systems

P.O. Box 15299 • Richmond, VA 23227-0699 USA • Phone: 804-746-1313 • Facsimile: 804-746-7248  
 2000 N. Andrews Ave. Ext. • Pompano Beach, FL 33069-1497 USA • Phone: 954-973-2477 • Facsimile: 954-979-4414  
 Fleets Industrial Estate • 26 Willis Way • Poole, Dorset BH15 3SU, England • Phone: +44(0)870 3306101 • Facsimile: +44(0)870 3306102

Email: sales@cruisair.com • Website: www.cruisair.com

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