

# Cooling/Heating Units

## DIRECT EXPANSION



EBL16, EBLP16C, and EBULP24C Units Shown

## Features

- Low-profile, twin-blower, ductable cooling/heating unit
- Works with Cruisair type F remote condensing units
- 12,000 - 36,000 Btu/hr
- 115V and 230V, 50/60 Hz models
- Rotatable, variable speed blowers
- Condensate drain pan with anti-slosh, antifungal foam
- Foam insulated metal surfaces
- Return air plenum on EBLP models
- High efficiency PSC blowers on EBUL models
- EHBL models have integrated auxiliary heat

## Low Profile Models

The low profile, twin-blower series of ductable cooling/heating units are available in a wide range of capacities and configurations. They are designed for installations where there is limited vertical space, such as beneath a seat or bunk, or in overhead spaces.

Models are available in capacities of 12,000 to 36,000 Btu/hr. They can be used with all Cruisair Type F reverse-cycle condensing units. Multiple cooling/heating units can be used with a single condensing unit of equal capacity in a split system.

Standard EBL units consist of a low-profile evaporator coil mounted on a deep condensate pan, with two squirrel-cage blowers drawing air across the coil. Refrigerant line connections and a metering device are also included. Refrigerant connections are male flare fittings.

The condensate pan, blower housing and all transitional metal surfaces are covered with insulating foam to prevent secondary condensation and reduce noise. The drain pan is lined with anti-slosh, antifungal foam, and the blowers can be rotated for discharge in different directions.

Various modifications on the base EBL unit are available.

**EBUL** units have a high-efficiency PSC (permanent split capacitor) motor that is internal to the blower wheel, and protected in the housing. This results in a quieter unit, with excellent performance and speed control, especially when used with a Cruisair SMX series control.

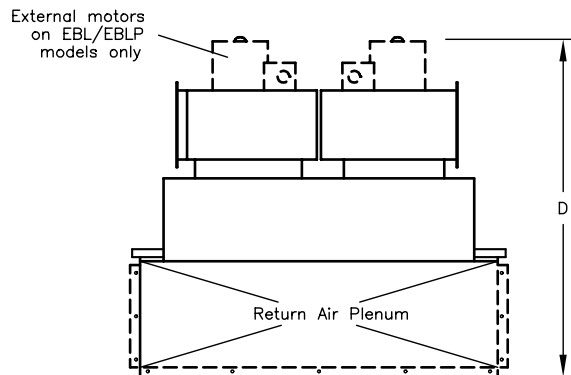
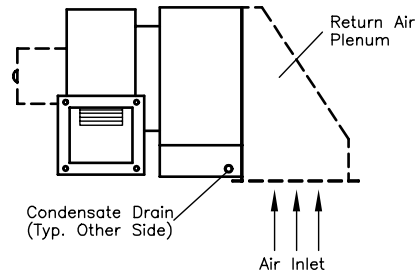
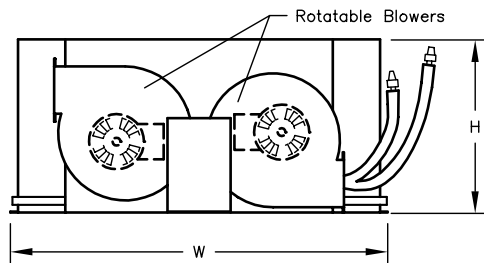
**EBLP** models are designed for overhead installations, and include an insulated return air plenum to collect air from a ceiling mounted grill. EBULP models have PSC blowers.

**EHBL** units have integrated electric heat strips to provide heat when the seawater is too cold for adequate reverse-cycle heating. All Cruisair auxiliary heaters use a 2-stage thermal protection system to prevent dangerous overheating in case airflow is lost. The first cutout is an automatic reset switch at 160° F (71° C), and the second stage is a manual reset control that opens at 180° F (82° C). Other safety features include high-temperature insulation on the interior surfaces and high temperature wiring. Models with PSC blowers and with return air plenums are also available.

The cooling/heating unit can be installed with a combination of plenums, and flexible or built-in duct-work to convey discharge air to one or more outlets. Hose adapters are required to connect to flexible duct.

All low profile models can be used with either rotary-knob switches or with an SMX series computerized control. EHBL units with electric heat must use SMX Net controls or a special 4-knob switch assembly.

**Cruisair**<sup>®</sup>  
Chill Out In Style



Unit Capacity (Btu/hr)	Return Air Grill Area (sq in/cm)	Dishcharge Grill Area (sq in/cm)	Min. Duct Size (in/mm)	Ref. Line Sizes Disch.	Ref. Line Sizes Suction
12,000	120/780	36/232	5/125	1/4"	3/8"
16,000	144/935	49/319	5/125	1/4"	1/2"
20,000	225/1450	60/390	6/150	3/8"	1/2"
24,000	225/1450	70/455	7/150	3/8"	1/2"
30,000	300/1935	80/520	7/175	3/8"	3/4"
36,000	300/1935	90/580	8/200	3/8"	3/4"

### TECHNICAL SPECIFICATIONS

Model	Capacity (Btu/hr)	Voltage	Blower Amps	Electric Heater		Dimensions (in/cm)			Weight (lb/kg)
				kW	Amps	H	W	D	
EBL12 EBL12C	12,000	115 230	3.8 1.8	- -	- -	10.8/27	20.5/52	14.8/37	39/17.7
EBLP12 EBLP12C	12,000	115 230	3.8 1.8	- -	- -	11.0/28	24.0/61	22.1/56	41/18.6
EBULP12 EBULP12C	12,000	115 230	2.4 1.2	- -	- -	11.0/28	24.0/61	18/48	41/18.6
EBL16 EBL16C	16,000	115 230	3.8 1.8	- -	- -	10.8/27	20.5/52	14.8/37	40/18.2
EBLP16 EBLP16C	16,000	115 230	3.8 1.8	- -	- -	11.0/28	24.0/61	22.1/56	42/19.1
EBUL16 EBUL16C	16,000	115 230	2.4 1.2	- -	- -	10.8/27	20.5/52	12.3/31	40/18.2
EBULP16 EBULP16C	16,000	115 230	2.4 1.2	- -	- -	11.0/28	24.0/61	18.8/48	42/19.1
EBHUL16 EBHUL16C	16,000	115 230	2.4 1.2	2.0	16.6 8.3	10.8/27	20.5/52	15.0/38	42/19.1
EBHULP16 EBHULP16C	16,000	115 230	2.4 1.2	2.0	16.6 8.3	11.0/28	24.0/61	23.0/59	43/19.1
EBUL20C EBUL24C	20,000 24,000	230	2.8 2.8	- -	- -	13.0/33	26.5/67	12.0/31	44/20.0
EBULP24C	24,000	230	2.8	-	-	12.3/31	26.5/67	22.5/57	44/20.0
EBUL30C EBUL36C	30,000 36,000	230	3.6 3.6	- -	- -	14.5/37	36.5/93	14.0/36	72/32.7

### INTERPRETING MODEL NUMBERS

E	H	B	U	L	P	16	C
Evaporator	No Letter: No Heat H: Electric Heat	Type of Mover B: Blower	Blower Motor No Letter: Shaded Pole U: PSC	Low Profile	Return Air Plenum	Capacity x 1000 Btu/hr	Voltage No Letter: 115V C: 230V

