

E Series DX Evaporators

Low Profile, Twin Blower Air Handlers



The low profile, twin-blower E 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 or R reverse-cycle condensing units. Multiple cooling/heating units can be used with a single condensing unit of equal capacity in a split system.

Standard **EBUL** units consist of a low-profile evaporator coil mounted on a deep condensate pan, with two PSC 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 EBUL unit are available.

EBUL units have a high-efficiency permanent split capacitor (PSC) 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.

EBLUP models are designed for overhead installations, and include an insulated return air plenum to collect air from a ceiling mounted grille.

Key Benefits

- Low-profile, twin-blower, ductable cooling/heating unit.
- Works with Cruisair type F or R 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 EBULP models.
- High efficiency PSC blowers.
- EHBUL models have integrated auxiliary heat.

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EBUL 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.

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.

Technical Specifications for E Series Low Profile Cooling/Heating Units

Model	Capacity (BTU/hr)	Voltage	Blower Amps	Electric Heater (kW/Amps)		Dimensions (in/cm)			Weight (lb/kg)
						Height	Width	Depth	
EBULP12 EBULP12C	12,000	115 230	2.4 1.2	N/A		11.0/28	24.0/61	18/48	41/18.6
EBUL16 EBUL16C	16,000	115 230	2.4 1.2	N/A		10.8/27	20.5/52	12.3/31	40/18.2
EBULP16 EBULP16C	16,000	115 230	2.4 1.2	N/A		11.0/28	24.0/61	18.8/48	42/19.1
EHBUL16 EHBUL16C	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
EHBULP16 EHBULP16C	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	N/A		13.0/33	26.5/67	12.0/31	44/20.0
EBULP24C	24,000	230	2.8	N/A		12.3/31	26.5/67	22.5/57	44/20.0
EBUL30C EBUL36C	30,000 36,000	230	3.6 3.6	N/A		14.5/37	36.5/93	14.0/36	72/32.7

Capacity (BTU/hr)	Return Air Grille Area (sq in/cm)	Discharge Grille Area (sq in/cm)	Minimum Duct Size (In/mm)	Ref. Line Sizes	
				Discharge	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"

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 U: PSC	Low Profile	Return Air Plenum	Capacity X 1,000 BTU/hr	Voltage No Letter: 115V C: 230V

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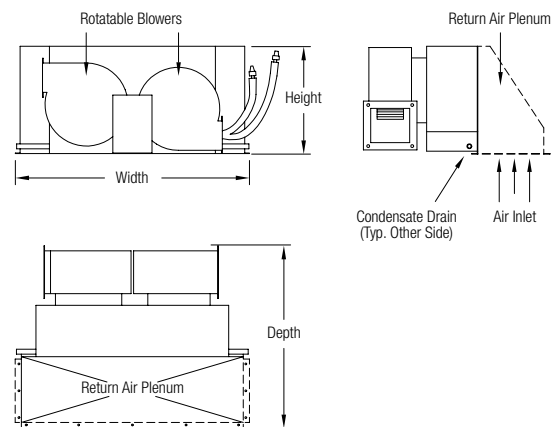
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