

EBLE Low-Profile Split Evaporators

Dual-Blower Units for Height-Restrictive Spaces



EBLEP16 with blowers in horizontal position

EBLEP16 with blowers in vertical position

EBLE24

Cruisair's EBLE low profile, dual-blower series of ductable cooling/heating units are available in a wide range of capacities and configurations. Available in capacities from 12K to 36K BTU/hr., EBLE units are designed for installations where there is limited vertical space, such as beneath a seat or bunk, or in overhead spaces.

Standard EBLE units consist of a low-profile evaporator coil mounted on a deep condensate pan, with two high-efficiency permanent split capacitor (PSC) blowers drawing air across the coil. Refrigerant line connections and a metering device are also included. Refrigerant connections are male flare fittings.

The variable-speed blower motor is internal to the blower wheel, which results in less noise and reduced unit depth for easier installation.

The drain 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.

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

EBHLE 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,

(Continued on reverse side)

Key Benefits

- Low-profile, twin-blower, ductable cooling/heating unit.
- 12,000 - 36,000 Btu/hr .
- 115V and 230V, 50/60 Hz models.
- Environmentally safe R-410A refrigerant.
- Rotatable, variable speed blowers.
- Condensate drain pan with anti-slosh, antifungal foam.
- Foam insulated metal surfaces.
- Electric heat available on EBHLE models.
- Return air plenum on EBULP models.
- High-efficiency PSC blowers.
- Integrated auxiliary heat.
- Thermal expansion valve for optimal performance over a range of conditions.

and the second stage is a manual reset control. 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.

Cruisair EBLE evaporators can be controlled using the SMXht or SMXir keypad displays operating on the SMXII or SMXNet control systems, or using the Qht or Q3 keypad displays operating on the Q-Logic control system. A mechanical rotary-knob switch assembly is also available.

Technical Specifications for EBLE Series Low-Profile Evaporators

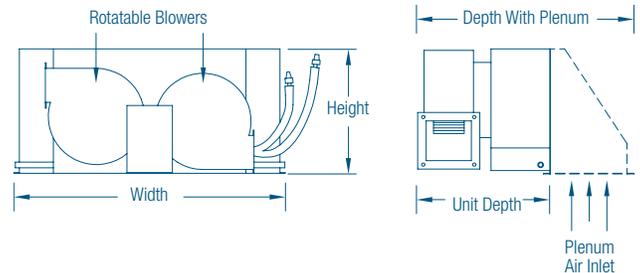
Model	Capacity (BTU/hr)	Voltage	Blower Amps	Electric Heater (kW/Amps)	Dimensions (in/mm)			Weight (lb/kg)
					Height ⁽¹⁾	Width	Depth	
Without Plenum or Electric Heat								
EBLE12-115V	12,000	115	2.4	N/A	11.25/286	24.00/610	13.50/343	30/13.6
EBLE12-230V	12,000	230	1.2	N/A	11.25/286	24.00/610	13.50/343	30/13.6
EBLE16-115V	16,000	115	2.4	N/A	11.25/286	24.00/610	13.50/343	30/13.6
EBLE16-230V	16,000	230	1.2	N/A	11.25/286	24.00/610	13.50/343	30/13.6
EBLE24-230V	24,000	230	2.8	N/A	12.50/318	27.50/699	14.00/356	40/18.1
EBLE30-230V	30,000	230	3.6	N/A	13.00/330	37.50/953	14.00/356	46/20.9
EBLE36-230V	36,000	230	3.6	N/A	13.00/330	37.50/953	14.00/356	46/20.9
With Plenum, Without Electric Heat								
EBLEP16-115V	16,000	115	2.4	N/A	11.25/286	24.25/616	21.00/533	36/16.3
EBLEP16-230V	16,000	230	1.2	N/A	11.25/286	24.25/616	21.00/533	36/16.3
EBLEP24-230V	24,000	230	2.8	N/A	12.50/318	27.75/701	22.75/578	44/20.0
Without Plenum, With Electric Heat								
EBHLE16-115V	16,000	115	2.4	2.0/17.40	11.25/286	20.50/521	16.00/406	36/16.3
EBHLE16-230V	16,000	230	1.2	2.0/8.70	11.25/286	20.50/521	16.00/406	36/16.3
EBHLE24-230V	24,000	230	2.8	2.0/8.70	12.50/318	27.50/699	17.00/432	46/20.9
With Plenum & Electric Heat								
EBHLEP16-115V	16,000	115	2.4	2.0/17.40	11.25/286	24.25/616	23.75/603	40/18.1
EBHLEP16-230V	16,000	230	1.2	2.0/8.70	11.25/286	24.25/616	23.75/603	40/18.1
EBHLEP24-230V	24,000	230	2.8	2.0/8.70	12.50/318	27.75/701	26.50/673	50/22.7

Notes:

(1) Heights shown for blowers in horizontal position.

Interpreting Model Numbers							
E	B	H	L	E	P	X	-230V
Evaporator	High-Efficiency Blower	No H: No Elec. Heat H: Elec. Heat	Low-Profile	R-410A Refrigerant	No P: No Plenum P: Plenum	x1,000 BTU/hr	Voltage

Capacity (BTU/hr)	Return Air Grille Area (sq. in/cm)	Supply Air Grille Area (sq. in/cm)	Minimum Duct Size (in/mm)	No. of Ducts	Ref. Line Sizes (in/mm)	
					Discharge	Suction
12,000	130/838.8	70/451.6	4/102	2	0.25/6	0.38/10
16,000	160/1,032.3	80/516.2	5/127	2	0.25/6	0.50/13
24,000	240/1,548.5	140/903.3	6/153	2	0.38/10	0.63/16
30,000	350/2,258.2	170/1,096.8	7/229	2	0.38/10	0.75/19
36,000	360/2,322.7	196/1,264.6	7/178	2	0.38/10	0.75/19



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