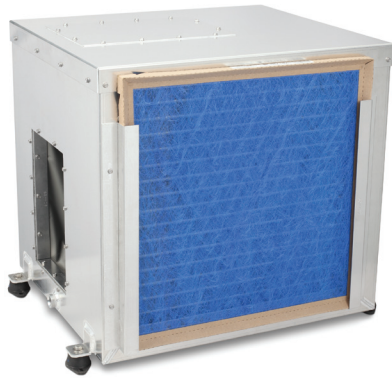


EBDE Series High-Capacity Evaporators

Multi-Ton Units for Split-Gas Air Conditioning Systems



EBDE evaporators are draw-through, ductable cooling and heating units with variable speed blower and enclosed in an insulated aluminum housing with integrated condensate drain pan. EBDE units are designed to be installed in a cabinet or other enclosed space with discharge air ducted to grilles high in the cabin.

EBDE models are available in capacities from 30,000 to 72,000 BTU/hr, and can be used with Emerald series reverse-cycle condensing units.

The 30,000 and 36,000 BTU/hr units have one evaporator coil with a single return air inlet. The 48,000 to 72,000 BTU/hr units feature a dual return air inlet design with two evaporator coils. Return air filters are also included.

Vertical or horizontal air discharge is specified when ordering the unit (by the model designation), but the blower can be rotated in the field if necessary.

The deep condensate drain pan is filled with anti-slosh, anti-fungal foam and has two drain fittings. The drain pan also includes rubber vibration-isolation mounting feet.

EBDE evaporators can be ducted with flexible or built-in ducts to deliver air to one or more cabins. The maximum external static pressure is 0.25 in. water. A hose adapter will be needed to connect the unit to flexible duct. If using built-in ducting, a flexible transition should be installed between the unit and the duct. Return air should not be ducted.

EBDE models can be used with Cruisair microprocessor or mechanical cabin controls.



Vibration-isolation mounts reduce noise and vibration.

Key Benefits

- Variable-speed blower.
- Horizontal or vertical air discharge (field rotatable).
- Integrated condensate drain pan with anti-slosh, anti-fungal foam lining.
- Internal components are insulated against secondary condensation.
- 230V/60Hz models (50Hz available).
- Easy-to-replace air filter.
- Capacities from 30,000 to 72,000 BTU/hr.
- Works with Emerald series condensers.
- Integrated chassis with vibration isolation mounts to reduce noise and vibration.

Cruisair[®]
by Dometic GROUP

Specifications for EBDE Series High-Capacity Evaporators

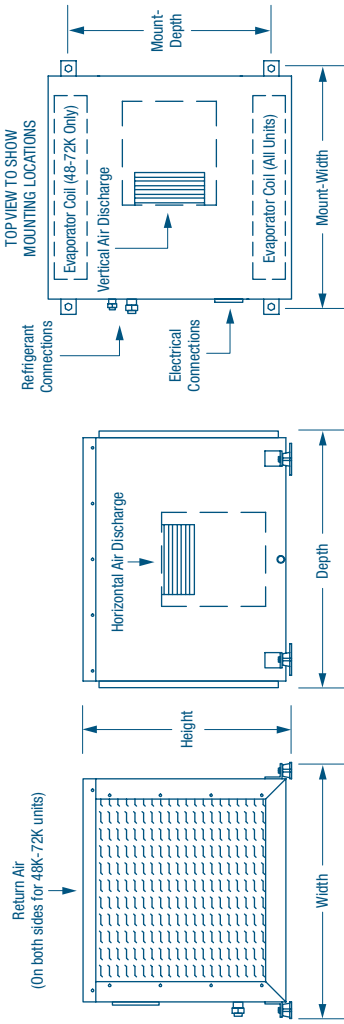
Model ⁽¹⁾	EBDE50	EBDE56	EBDE48	EBDE60	EBDE72
Capacity (BTU/h)	30000	36000	48000	60000	72000
Voltage (V) ⁽²⁾	230	230	230	230	230
Phase (Hz)/Cycle (Ph)	60/1	60/1	60/1	50/1	50/1
Full Load Amps (FLA) Blower (A)	1.64	3.8	4.3	5.8	4
Max. Circuit Breaker (A)	5	10	10	5	5
Min. Circuit Ampacity (A)	3	5	6	8	5
Air Flow (cfm/m ³ h)	800/1359.3	1200/2038.9	1600/2718.5	2000/3398.1	2400/4077.7
Height (in/mm) ⁽³⁾	20.5/521	20.5/521	20.5/521	20.5/521	20.5/521
Width (in/mm) ⁽³⁾	24.5/623	24.5/623	24.5/623	24.5/623	24.5/623
Depth (in/mm) ⁽³⁾	19.75/502	19.75/502	25.5/648	25.5/648	25.5/648
Mount-Depth (in)	13.5	13.5	18.56	18.56	18.56
Mount-Width (in)	22.8	22.8	22.8	22.8	22.8
Min. Supply Duct Size (in/mm)	10/254	10/254	12/305	12/305	14/356
Min. Supply Air Gille Size (sq in/sq cm)	150/968	170/1097	230/1484	290/1871	350/2259
Min. Return Air Gille Size (sq in/sq cm)	280/1807	320/2065	440/7839	570/3678	690/4452
Refrigerant Line Connection-Discharge (in)	3/8	3/8	3/8	3/8	3/8
Refrigerant Line Connection-Suction (in)	3/8	3/8	3/8	3/8	3/8

¹ For horizontal air discharge add 'HC' to the end of the model number; for vertical air discharge add 'VC'. For example, EBDE30-HC indicates a 30,000 BTU/hr. unit in the horizontal discharge configuration.

² 50Hz models are available by special order.

³ All dimensions ± 0.30 in. (8 mm).

Dimensions



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Specifications and availability subject to change without notice.



Dealer