

NEW!

Emerald Condenser Multi-Ton Series

Innovative Chassis Conquers Installation Challenges



EQ30 shown

After listening to boat builders, global service teams and boat owners, Dometic engineers designed a totally innovative Emerald Condenser series to harness and maximize the impressive performance of R-410A refrigerant while meeting all international clean air standards.

The Emerald Condenser has a minimized footprint. This compact design incorporates built-in isolation, two large drain connections and numerous mounting options for installation to a smooth deck, stringer or existing rack. The incorporated lifting handles and smooth bottom allows for easy lifting and quick placement of the unit. The molded composite no-rust drain pan is shaped to provide positive drainage even when the boat heaves and rolls. The amount of standing water in the drain pan is reduced by up to 85%, which is 8x times less than a typical drain pan.

The condensing unit provides quick and easy installation. The drain, seawater and refrigerant connections are conveniently located to conquer installation challenges thus reducing installation time by up to fifteen minutes. The electrical box can be removed and located up to 5 ft. (1.5 m) away, further reducing the size of the unit while making the system more accessible. The reversing valve, pressure switches and service ports are centrally located, high on the unit for access from any side.

Key Benefits

- Up to 85% reduction in condensate drainage.
- Up to 15 minutes faster to install.
- Reduced amps.
- Square chassis for easy installation in tight locations.
- Three mounting options adapt to installation environments.
- Composite drain pan will not rust.
- Built-in refrigerant-line filter drier reduces installation time and protects compressor from moisture and contaminants.
- High-performance engineering maximizes the efficiency of R-410A refrigerant.
- Available in 11 capacities from 6K to 72K BTUs/hr. (For 6K-16K data, please refer to specification sheet L-2702A.)

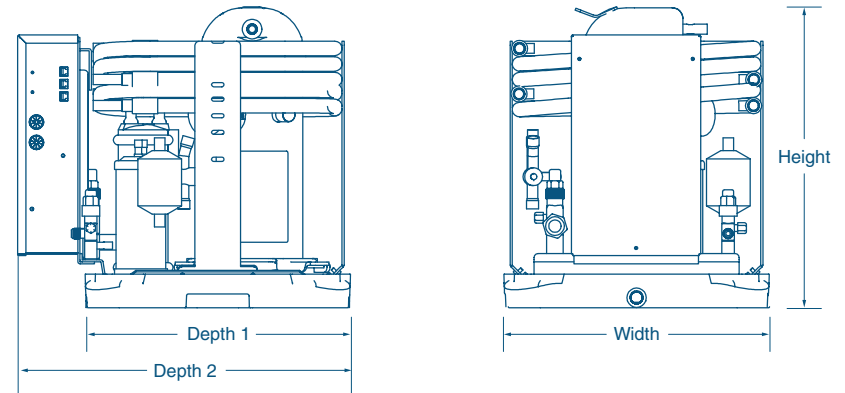
Technical Specifications for Emerald Condenser Multi-Ton Series

Model ⁽¹⁾	EQ24					EQ30					EQ36					EQ48					EQ60					EQ72									
Capacity (BTU/Hr) ⁽²⁾	24,000					30,000					36,000					48,000					60,000					72,000									
Voltage (VAC)	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380	230	240	230	460	380
Cycle (Hz/Phase (Ph)) ⁽³⁾	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3	60/1	50/1	60/3	60/3	50/3
Full Load Amps (FLA) – Cool	6.3	6.8	4.9	2.4	2.7	7.3	8.0	5.4	2.7	3.2	9.1	9.4	6.3	3.3	4.4	11.9	12.1	8.2	3.8	4.2	13.6	14.4	10.2	5.3	5.6	15.5	21.5	11.2	6.0	8.0	15.5	21.5	11.2	6.0	8.0
Full Load Amps (FLA) – Heat	7.8	8.6	6.6	3.2	3.6	9.2	10.4	7.3	3.6	4.2	11.5	12.2	8.3	4.2	5.9	15.7	17.9	10.9	5.0	5.7	20.2	21.4	12.7	6.6	7.6	23.0	29.1	14.8	7.4	10.8	23.0	29.1	14.8	7.4	10.8
Locked Rotor Amps (Comp)	43.0	48.0	55.0	22.4	28.0	54.0	64.0	58.0	28.0	38.0	74.0	64.0	71.0	38.0	45.0	105.0	115.0	95.0	45.0	60.0	150.0	130.0	120.0	60.0	70.0	145.0	130.0	123.0	70.0	87.0	145.0	130.0	123.0	70.0	87.0
K.V.A. (Kilo-Volt-Amps)	1.79	2.06	2.63	2.55	2.37	2.12	2.50	2.90	2.86	2.76	2.65	2.93	3.30	3.34	3.88	3.61	4.30	4.34	3.98	3.75	4.65	5.14	5.05	5.25	5.00	5.29	6.98	5.89	5.89	7.10	5.29	6.98	5.89	5.89	7.10
Max. Circuit Breaker (Amps)	30	32	25	15	15	35	35	30	15	15	45	40	30	15	20	70	70	50	20	30	80	80	55	30	30	90	90	60	30	40	90	90	60	30	40
Min. Circuit Ampacity (Amps)	20	20	15	10	10	25	25	20	10	10	30	35	20	10	15	45	45	30	15	20	50	50	35	20	20	60	60	35	20	25	60	60	35	20	25
Refrigerant R-410A (oz/g) ⁽⁴⁾	42/1191					48/1361					56/1588					64/1814					70/1984					76/2155									
Unit Dimensions (in/mm)																																			
Height	18.0/457					18.0/457					18.0/457					18.5/470					20/508					20/508									
Width	16.0/406					16.0/406					16.0/406					16.0/406					16/406					16/406									
Depth 1	16.0/406					16.0/406					16.0/406					16.0/406					16/406					16/406									
Depth 2 ⁽⁵⁾	18.8/478					18.8/478					18.8/478					18.8/478					18.8/478					18.8/478									
Connections Ø																																			
Refrigerant Line – Discharge	3/8"					3/8"					3/8"					3/8"					3/8"					3/8"									
Refrigerant Line – Suction	5/8"					3/4"					3/4"					3/4"					3/4"					3/4"									
Estimated Weights																																			
Net Weight (lbs/kg)	110/50.0					115/52.3					120/54.5					135/61.4					150/68.2					155/70.5									
Gross Weight (lbs/kg)	125/56.8					130/59.1					135/61.4					150/68.2					165/75.0					170/77.3									

Notes:

- ⁽¹⁾ EQ units have a Q-Logic control. For units with a mechanical control, replace the "Q" with "M", e.g. "EM24".
- ⁽²⁾ BTU and electrical data are based on a 45°F/7.2°C evaporator and 100°F/37.8°C condenser in cool mode, and a 45°F/7.2°C evaporator and 130°F/54.4°C condenser in heat.
- ⁽³⁾ 60Hz units must not operate at 50Hz and 50Hz units must not operate at 60Hz unless data plate says otherwise.
- ⁽⁴⁾ Refrigerant charges shown are for R-410A.
- ⁽⁵⁾ Combined depth of unit and electrical box, as shown in the drawing below. For remote mounting, the electrical box dimensions are 13.25" high X 7.75" wide X 3.75" deep (337 mm X 197 mm X 95 mm).

* Please refer to spec sheet L-2702A for the Emerald Condenser 6K-16K Series.



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The logo for FREEZETEC features the brand name in a large, bold, blue font with a white outline. Below it, 'MARINE REFRIGERATION & AIRCONDITIONING' is written in a smaller, blue, sans-serif font.