

NEW!

Emerald Condenser Multi-Ton Series

Innovative Chassis Conquers Installation Challenges



EQ12 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 R410A refrigerant while meeting all international clean air standards.

The increase in BTU capacity is due primarily to the improved refrigerant metering design. The bi-flow thermal expansion valve, for cooling provides a 14% increase in system capacity, which combined with a separate metering system for heating attains an increase of up to 10% in heating performance. The amperage reduction of up to 27% is due to the more efficient design of the rotary compressor and properly sized refrigerant components.

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 3 feet 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 14% increase in BTU capacity.
- Up to 17% reduced start-up amps.
- Up to 18% smaller.
- Up to 15% lighter.
- Up to 85% reduction in condensate drainage.
- Up to 15 minutes faster to install.
- Up to 27.5% amperage reduction with both the Emerald TurboVap evaporator and Emerald condenser.
- 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 ranging from 6K to 72K BTUs/hr.

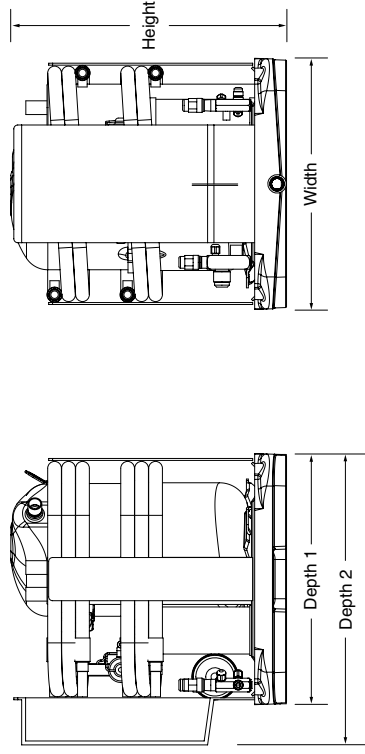
Technical Specifications for Emerald Condenser Multi-Ton Series

Model ⁽¹⁾⁽²⁾	EQ20				EQ24				EQ30				EQ36				EQ48								
	230/60/1	240/50/1	380/50/3	230/60/1	240/50/1	230/60/3	460/60/3	380/50/3	230/60/1	240/50/1	230/60/3	460/60/3	380/50/3	230/60/1	240/50/1	230/60/3	460/60/3	380/50/3	230/60/1	240/50/1	230/60/3	460/60/3	380/50/3		
Capacity (BTU/Hr)	20,000																								
Power (Volt/Hz/Ph)	24,000																								
Full Load Amps (FLA) – Cool	5.2	6.1	2.7	6.3	6.8	4.8	2.5	2.9	7.3	7.3	8.6	5.4	5.4	9.1	9.4	6.0	3.1	3.7	11.6	TBD	11.6	TBD	8.4	4.1	5.2
Full Load Amps (FLA) – Heat	6.2	7.4	3.0	7.8	8.6	6.0	3.1	3.3	9.2	9.2	11.2	6.8	3.8	11.5	12.2	7.6	3.9	4.3	14.9	TBD	14.9	TBD	10.8	5.3	6.0
Locked Rotor Amps	43.0	48.0	30.0	43.0	48.0	63.0	30.0	30.0	54.0	54.0	64.0	63.0	35.0	74.0	64.0	68.0	34.0	35.0	84.0	TBD	84.0	TBD	88.0	44.0	44.0
Max. Circuit Breaker (Amps)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Refrigerant Type	R-410A																								
Seawater Flow (gpm/lpm)	5.0/18.9																								
Unit Dimensions (in/mm)	7.5/28.4																								
Height	18.0/457																								
Width	16.0/406																								
Depth 1	16.0/406																								
Depth 2	18.88/479																								
Sea Water (in. and type)	5/8" hose clamp																								
Refrigerant Line – Discharge	3/8"																								
Refrigerant Line – Suction	1/2"																								
Net Weight (lbs/kg)	100.0/45.4																								
Gross Weight (lbs/kg)	106.0/48.1																								
Connections Ø	5/8" hose clamp																								
Estimated Weights	110.0/50.0																								
	116.0/52.6																								
	115.0/52.0																								
	121.0/54.9																								
	135.0/61.2																								
	141.0/64.0																								

Notes:

- (1) For units with mechanical control, replace the "Q" with "M", e.g. "EM24".
- (2) Technical specifications for the 60K and 72K models were not available at press time.
- (3) Actual unit depth when electrical box is mounted remotely.
- (4) Combined depth of unit and electrical box, as shown in the drawing below.

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



Dealer:

DOMETIC MARINE
 2000 N. Andrews Ave. Ext. J Pompano Beach, FL 33069 USA | 954-973-2477 | Fax 954-979-4414
www.DometicUSA.com | MarineSales@DometicUSA.com

United States & Canada Tech Support
 8:00 AM to 5:00 PM Eastern Time: 800-542-2477
 After hours and weekends: 888-440-4494

International Sales & Service:
 Europe & the Middle East: Call +44(0)870-330-6101
 For all other areas visit our website to find your nearest distributor.

