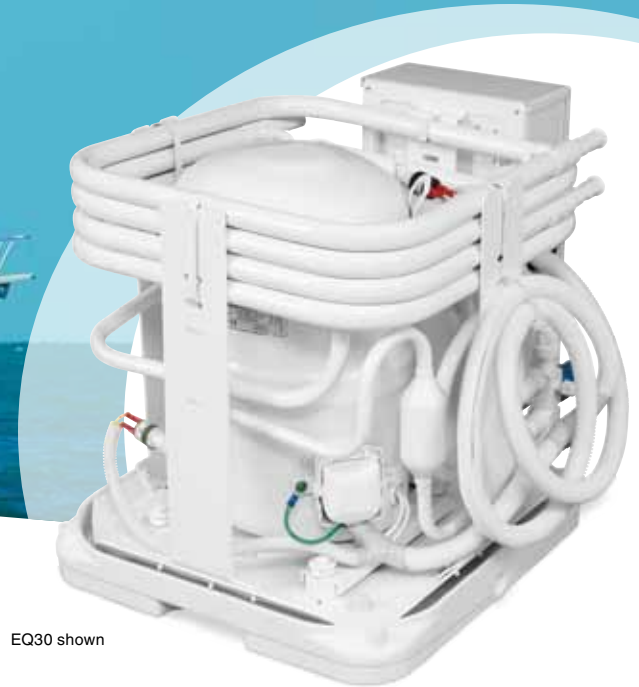


# Emerald Series (24K-72K) Condensers

## Innovative Chassis Conquers Installation Challenges

Uses  
R-410A



EQ30 shown

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

The compact design of the Emerald series incorporates built-in vibration-isolating mounts, 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.

Emerald condensers can be installed quickly and easily. 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 easily 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.

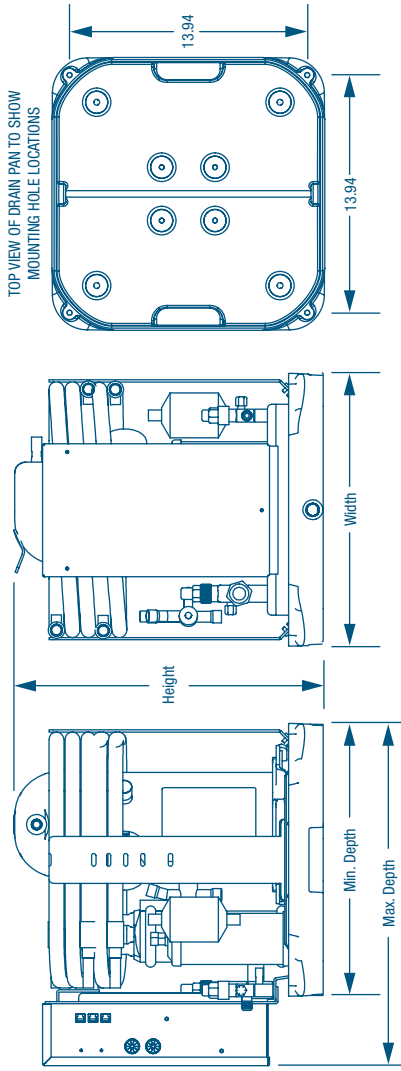
### Key Benefits

- Up to 85% reduction in standing water in the drain pan
- Up to 15 minutes faster to install
- Square chassis for easy installation in tight spaces
- Three mounting options adapt to installation environments
- Rust-free composite drain pan
- Reconfigurable chassis allows optimal drain connections
- Cushioned compressor mounts reduce noise and vibration
- Built-in refrigerant line filter drier reduces installation time and protects the compressor from moisture and contaminants
- Reversing valve, pressure switches, and service ports centrally located for easy maintenance access from any side
- Engineered to maximize performance of R-410A, an environmentally safe refrigerant

# Technical Specifications for Emerald Series (24K-72K) Condensers

MODEL <sup>(1)</sup>	EQ24					EQ30					EQ36					EQ48					EQ60					EQ72									
	24,000					30,000					36,000					48,000					60,000					72,000									
Capacity (BTU/Hr) <sup>(2)</sup>	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
Voltage (VAC)	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
Cycle (Hz)/Phase (Ph) <sup>(3)</sup>	6.3	6.8	4.9	2.4	2.7	7.3	8.0	5.4	2.7	3.2	9.1	9.4	3.3	4.4	4.4	11.9	12.1	8.2	3.8	4.2	15.7	17.9	10.9	5.0	5.7	17.9	12.1	8.2	3.8	4.2	13.6	14.4	10.2	5.3	5.6
Full Load Amps (FLA) – Cool	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	17.9	12.1	8.2	3.8	4.2	13.6	14.4	10.2	5.3	5.6	11.2	11.2	6.0	6.0	8.0
Full Load Amps (FLA) – Heat	4.3	4.8	5.5	2.4	2.8	5.4	6.4	5.8	2.8	3.8	7.4	8.0	7.1	3.8	4.5	10.5	11.5	9.5	4.5	5.0	15.0	13.0	12.0	6.0	7.0	14.5	13.0	12.0	6.0	7.0	123.0	130.0	123.0	70.0	87.0
Locked Rotor Amps (Comp)	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	6.98	5.89	5.89	7.10	7.10	7.10	5.89	5.89
K.V.A. (Kilo-Volt-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	30	90	90	60	30	30
Max. Circuit Breaker (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	40	20	25	60	60	40	20	25
Min. Circuit Ampacity (Amps)	42/1191	18.0/457	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406			
Refrigerant R-410A (oz/g) <sup>(4)</sup>	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406				
Height (in/mm)	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	18.0/457	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406			
Width (in/mm)	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406		
Min. Depth (in/mm)	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406	16.0/406			
Max. Depth (in/mm) <sup>(5)</sup>	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478	18.8/478			
Refrigerant Line – Discharge	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.	3/8 in.			
Refrigerant Line – Suction	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.	5/8 in.			
Net Weight (lbs/kg)	110/50.0	115/52.3	115/52.3	115/52.3	115/52.3	120/54.5	120/54.5	120/54.5	120/54.5	120/54.5	135/61.4	135/61.4	135/61.4	135/61.4	135/61.4	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2				
Gross Weight (lbs/kg)	125/56.8	130/59.1	130/59.1	130/59.1	130/59.1	135/61.4	135/61.4	135/61.4	135/61.4	135/61.4	150/68.2	150/68.2	150/68.2	150/68.2	150/68.2	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0	165/75.0				

1 EO units have a 0-Logic control. For units with a mechanical control, replace the "0" 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 in. high X 7.75 in. wide X 3.75 in. deep (337 mm X 197 mm X 95 mm).



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