

# Grunert Mariner Series

## Holdover Refrigeration Systems



Mariner belt-driven system shown

**The Mariner series of holdover refrigeration systems is available from ¼ HP to 1 HP capacities**, for use with 12 or 24 volt DC power supplies, and has been proven to be the ideal system for seafaring vessels with or without on-board AC power. Its unique design allows for automatic operation when either the alternator or the battery charger is energized. An electrical interlock prevents accidental battery drain.

These units come standard with a cupronickel seawater condenser for improved efficiency and lower operating pressure. The Mariner series can efficiently cool a number of different box sizes and configurations.

Condensing units can be installed in any convenient location and are practically unaffected by vibration or moisture.

The Mariner series units meet or exceed applicable ABYC and U.S. Coast Guard regulations, CE Directives, and general Air Conditioning and Refrigeration Industry (ARI) standards.

### Key Benefits

- Unique compact base fits any application.
- Standard equipped with cupronickel seawater condenser for improved efficiency and lower operating pressure.
- Sight glass / moisture indicator assembly to monitor system refrigerant charge.
- Remote electrical box is completely enclosed to protect all components.
- 5' (1.5 m) harness allows for a dry, accessible mounting location.
- Low 12 voltage controls provide an extra margin of safety.
- Hermetically sealed compressor for quiet, efficient operation.
- Vibration isolation mounts for additional noise reduction.
- Charge Guard® protection provides sealed access ports to ensure system integrity during handling and installation.

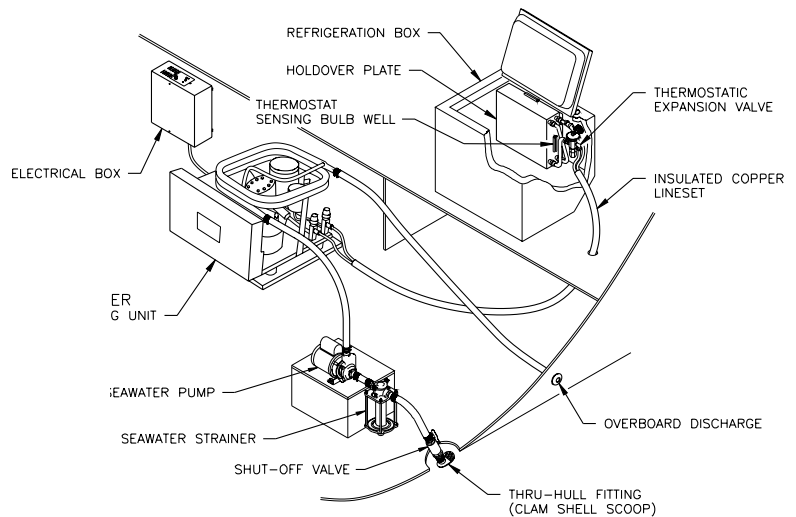
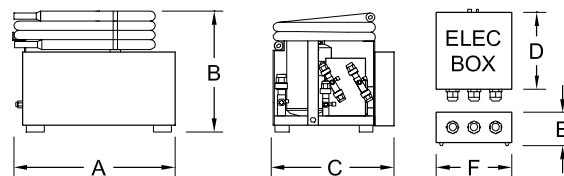
# Technical Specifications for Mariner Series

Model	DC425BD	DC450BD	DC475BD	DC4100BD
Refrigerant	R-409A	R-409A	R-409A	R-409A
Charge (oz/g)	26/737	26/737	55/1559	55/1559
Oil	Ester	Ester	Ester	Ester
Charge (oz/cc)	14/414	14/414	14/414	14/414
<b>Capacity (BTU/hr)<sup>1</sup></b>				
26°F (-3°C)	1800	3400	5000	6500
0°F (-18°C)	1600	2800	4200	5500
-9°F (-23°C)	1500	2200	3600	4500
-18°F (-28°C)	1250	1800	3200	3900
<b>Electrical Data</b>				
Motor Voltage (DC)	12	12/24	12/24	12/24
Amperage	21	40/20	58/29	80/39
Max. Circuit Breaker <sup>2</sup>	30	50/30	70/40	100/50
Base Valves	¼" discharge X ½" suction on all units			
<b>Unit Dimensions (in/mm)</b>				
A (Depth)	18.00/457	18.00/457	18.00/457	18.00/457
B (Height)	11.00/279	11.00/279	12.00/304	12.00/304
C (Width)	14.50/368	14.50/368	14.50/368	14.50/368
<b>Electrical Box Dimensions (in/mm)</b>				
D (Depth)	10.85/276			
E (Height)	4.70/119			
F (Width)	10.50/267			
<b>Weight (lbs/kg)</b>				
Net	86.0/39.0	90.0/40.8	95.0/43.1	98.0/44.5
Ship	96.0/43.5	100.0/45.4	105.0/47.6	108.0/49.0

**Notes:**

<sup>1</sup> BTU ratings are the average rate of heat extraction from holdover plates, and are not the capacity of the compressor or the condensing unit. These figures are to be used to determine run times required to maintain box design temperatures.

<sup>2</sup> For wire size, ampacity, etc, refer to ABYC Standards, section E-9 (DC Voltage).



Dealer:

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