

# CS Series (6K-16K) Condensers

## High-Efficiency Cooling & Heating



The CS series of condensing units for boats provides heating and cooling in a highly efficient package. The hermetically sealed, high-efficiency compressor reduces amp draw while pressure switches, thermal-overload, and start components provide constant system protection and proper operation. In addition, the expansion device and check-valve assemblies control load balancing during operation. The copper-encased cupronickel condenser coils are highly resistant to corrosion caused by continuous seawater flow.

The symmetrical base design provides optimum space efficiency and installation flexibility for easy handling and positioning of the unit. A built-in hose barb aids in complete condensate removal from the drain pan. Two sets of vibration isolators ensure quiet operation.

The electrical box can be mounted remotely. It has a moisture-resistant design with a corrosion-resistant enclosure. CS Digital (CSD) units include the Passport I/O circuit board.

As with all Marine Air products, quality is assured. Each unit is pre-charged, test-run in all operating modes, and leak-checked at the factory prior to shipping. All surface components are constructed of or coated with materials resistant to fire and corrosion. Charge Guard® protection provides sealed access ports that ensure environmental protection and system integrity. All CS condensing units meet or exceed applicable ABYC and US Coast Guard regulations, CE directives, and general Air Conditioning and Refrigeration Industry (ARI) standards.

### Key Benefits

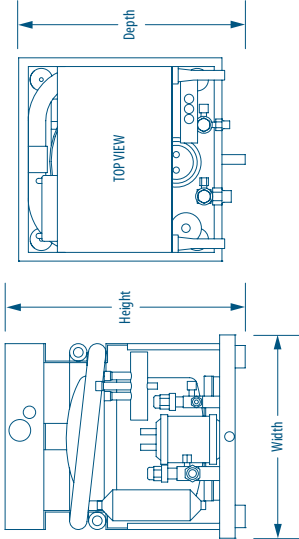
- High-efficiency condensers.
- Valves and switches provide load balancing and constant system protection.
- Symmetrical base for installation flexibility and ease of handling.
- Electrical box can be mounted remotely.
- Passport I/O circuit board included.
- Charged, tested, and leak checked at the factory.
- Meets or exceeds all applicable standards and regulation.

# Specifications for CS Series (6K-16K) Condensers

Model <sup>(1)</sup>	CSD9			CSD12			CSD16		
Capacity (BTU/h) <sup>(2)</sup>	6000	9000	12000	16000	24000	36000	48000	60000	72000
Voltage (V)	115	230	240	115	230	240	115	230	240
Cycle (Hz) <sup>(3)</sup> / Phase (Ph)	60/1	60/1	50/1	60/1	50/1	60/1	60/1	50/1	50/1
Kilo-Volt-Amps (KVA)	0.89	0.92	1.15	0.83	1.25	1.28	1.15	1.44	1.92
Refrigerant Type	417A	417A	417A	417A	417A	417A	417A	417A	417A
Max. Height (in/mm) <sup>(4)</sup>	15.2/387	15.2/387	15.2/387	15.2/387	15.2/387	15.2/387	15.2/387	15.2/387	15.2/387
Width (in/mm) <sup>(5)</sup>	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334
Depth (in/mm) <sup>(5)</sup>	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334	13.13/334
Seawater Connection (in/mm)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant Line Connection-Discharge (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Refrigerant Line Connection-Suction (in)	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Net Weight (lbs/kg) <sup>(6)</sup>	66/29.1	66/29.1	66/29.1	66/29.1	66/29.1	66/29.1	66/29.1	66/29.1	66/29.1
Gross Weight (lbs/kg) <sup>(6)</sup>	63/28.6	63/28.6	63/28.6	63/28.6	63/28.6	63/28.6	63/28.6	63/28.6	63/28.6

<sup>1</sup> 'D' in the model number indicates a digital control. Replace with 'M' for units with mechanical control. Add a 'Z' for 230V/60Hz units or 'Z50' for 240V/50Hz units. For example: CSD12K=115V/60Hz; CSD12KZ=230V/60Hz; CSD12KZ50=240V/50Hz.  
<sup>2</sup> 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 mode.  
<sup>3</sup> Some 60Hz units may be operated at 50Hz but at reduced voltages that will result in a loss of capacity and higher or lower amp draw than listed. Dedicated 50Hz units are available that provide the full rated capacity, but these units must not be operated.  
<sup>4</sup> Combined height of unit and electrical box. Subtract 2.60 in. (66 mm) for remotely-mounted electrical box. All dimensions ± 0.25 in. (6 mm).  
<sup>5</sup> All dimensions ± 0.25 in. (6 mm).  
<sup>6</sup> Based on 60Hz/1-phase units. All weights ± 10%.

## Dimensions



**DOMETIC MARINE DIVISION**  
 2000 N. Andrews Ave. | Pompano Beach, FL 33069 USA | Tel. 954-973-2477 | Fax: 954-979-4414  
[www.Domestic.com/Marine](http://www.Domestic.com/Marine) | [MarineSales@DomesticUSA.com](mailto:MarineSales@DomesticUSA.com)

**24/7 TECH SUPPORT FOR UNITED STATES & CANADA:**  
 8:00 AM to 5:00 PM Eastern Time: 800-542-2477  
 After hours and weekends: 888-440-4494

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L-2-125 Rev. 20120810

Dealer



Specifications and availability subject to change without notice.