

# CS Series (24K-60K) 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

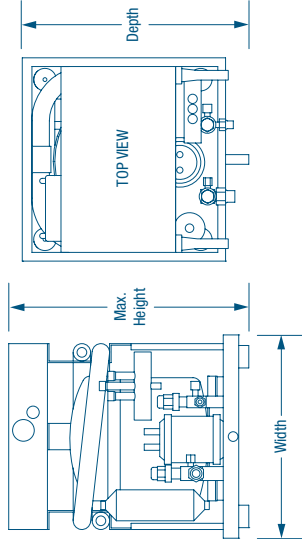
- High-efficiency condensers.
- Valves and switches provide load balancing and constant system protection.
- Symmetrical base for installation flexibility and ease of handling.
- Electrical box can be mounted remotely.
- Passport I/O circuit board included.
- Charged, tested, and leak checked at the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

# Specifications for CS Series (24K-60K) Condensers

Model <sup>(1)</sup>	CS124		CSB30		CSB36		CSD48		CSD60	
Capacity (BTU/h) <sup>(2)</sup>	24000		30000		36000		48000		60000	
Voltage (V)	230	380	230	240	230	240	380	230	240	380
Cycle Hz <sup>(3)</sup> / Phase (Ph)	60/1	50/3	60/3	50/1	60/3	50/1	50/3	60/1	60/3	50/3
Full Load Amps (FLA) Cool (A)	7	6.9	2.6	7.7	6.5	9.2	7.1	11.7	4.3	11.4
Full Load Amps (FLA) Heat (A)	8.6	8.5	3.5	9.6	10.6	11.7	7.9	13.9	5.4	14.5
Locked Rotor Amps (LRA) (A) <sup>(4)</sup>	60	55	29	61	58	70	73	68	85	40
Max. Circuit Breaker (A) <sup>(5)</sup>	35	30	10	40	30	35	45	30	50	15
Min. Circuit Ampacity (A)	22	19	9	24	17	22	28	17	29	11
Refrigerant Type	417A		417A		417A		417A		417A	
Max. Height (in/mm) <sup>(6)</sup>	21/534		21.5/547		25.5/648		25.5/648		28/712	
Width (in/mm) <sup>(7)</sup>	16/407		16/407		16/407		16/407		24/610	
Depth (in/mm) <sup>(7)</sup>	16/407		16/407		16/407		16/407		24/610	
Seawater Connection (in/mm)	5/16		5/16		5/16		5/16		5/16	
Refrigerant Line Connection-Discharge (in)	3/8		3/8		3/8		3/8		3/8	
Refrigerant Line Connection-Suction (in)	3/8		3/8		3/8		3/8		3/8	
Net Weight (lbs/kg) <sup>(8)</sup>	115/52.2		127/57.7		135/61.3		145/65.8		173/78.5	
Gross Weight (lbs/kg) <sup>(8)</sup>	120/54.5		132/59.9		140/63.6		150/68.1		181/82.2	

<sup>1</sup> 'D' in the model number indicates a digital control. Replace with 'M' for units with mechanical control. Add a '7' for 230V/60Hz units or 'Z50' for 240V/50Hz units. For example: CSD12K=115V/60Hz; CS012KZ=230V/60Hz, CS02KZ50=240V/50Hz  
<sup>2</sup> BTU and electrical data are based on +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> Varies with voltage and load, and may be higher or lower than listed.  
<sup>5</sup> Specification is for reverse-cycle units. Cool-only units may use smaller circuit breakers.  
<sup>6</sup> Combined height of unit and electrical box. Subtract 3.60 in. (92 mm) for remotely-mounted electrical box.  
<sup>7</sup> All dimensions ± 0.25 in. (6 mm).  
<sup>8</sup> Based on 60Hz/1-phase units. All weights ± 10%

## Dimensions



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Dealer

