

C12.9

MARINE PROPULSION ENGINE

1000 mhp

(985 bhp)

735 bkW

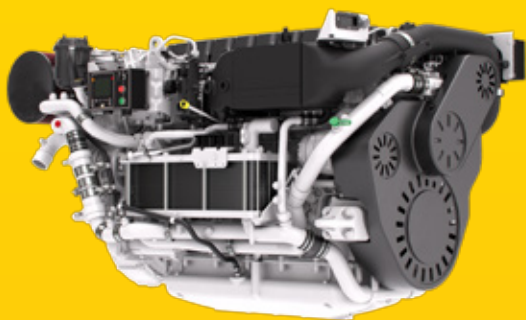


Image shown may not reflect actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

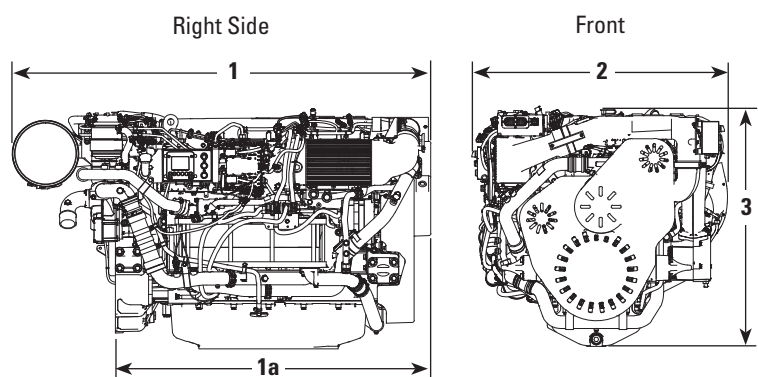
- Recreational Certifications
 - EPA Tier 3 (E5 Cycle – Recreational Only)
 - IMO II (EPA, GL, CCS, and SeeBG)
 - Recreational Craft Directive (EU) RCD
- Commercial Certifications
 - EU Stage IIIA
 - IMO II (GL, CCS, and SeeBG)
 - CCNR Stage II through reciprocity with EU Stage IIIA
- 12.9 L displacement
- 2300 rpm rated speed
- 135 mm (5.31 in) bore x 150 mm (5.91 in) stroke
- Electronically governed
- Common rail fuel system
- Series turbocharged, supercharged, aftercooled
- Heat exchanger cooled
- Refill capacity
 - Lube oil system: 47 L (10.3 gal)
 - Cooling system: 45 L (9.9 gal)
- SAE No. 1 flywheel housing
SAE No. 14 flywheel (155 teeth)
- 250-hour oil change interval
- Counterclockwise rotation



FEATURES

- High power density
- Industry-leading torque and throttle response at low speed
- Smooth, quiet operation throughout the entire operating range
- Closed crankcase ventilation system improves engine room cleanliness
- Common rail fuel system enables optimum combustion, low emissions and reduced noise
- Available on-engine control panel with “Start,” “Stop,” and display for engine diagnostics
- Inlet air heater for improved cold weather startability
- Low maintenance (fresh water/coolant) aftercoolers
- 12V or 24V electrical system
- **glink** ready for remote engine and vessel monitoring

DIMENSIONS



ENGINE DIMENSIONS & WEIGHT

(1) Length	1960 mm	77.1 in
(1a) Length to flywheel housing	1476 mm	58.1 in
(2) Width	1195 mm	47.0 in
(3) Height	1117 mm	43.9 in
Weight, dry (approx.)	1672 kg	3686 lb

Note: Do not use these dimensions for installation design. See general dimension drawings for detail.

MARINE ENGINE PERFORMANCE

**Max Power
E Rating – EM0872**

rpm	bhp	g/hr	bkW	g/bkW-hr
2300	986	50.7	735	218.9
2000	940	46.9	701	212.6
1800	846	40.4	631	203.5
1300	612	27.3	456	190.0
950	433	20.8	323	201.6
600	107	5.4	80	213.0

**Prop Demand
E Rating – EM0872**

rpm	bhp	g/hr	bkW	g/bkW-hr
2300	986	50.7	735	218.9
2000	650	32.8	485	214.7
1800	475	24.0	354	215.4
1300	178	9.2	133	220.3
950	70	3.8	52	231.9
600	17	1.2	13	291.2

STANDARD ENGINE EQUIPMENT

- Electronically controlled supercharger
- Series turbochargers with heat shield
- Watercooled exhaust manifold
- Dual aftercoolers
- Closed crankcase ventilation system
- Thermostats and housing
- Gear-driven sea water pump with bronze impeller
- Common rail fuel system
- Plate-type heat exchanger
- Engine oil cooler
- Engine-mounted fuel cooler
- Vibration damper and guard
- Grid heater
- Electric fuel priming pump
- Seawater pump outlet pressure sensor
- Water-in-fuel detection switch
- Exhaust gas stack temperature sensor
- Coolant level sensor

OPTIONAL ATTACHMENTS

- Alternators
 - 24V 120 amp
 - 24V 160 amp
 - 12V 200 amp
- Transmission gear oil cooler
- Transmission sensor packages for on- or off-vessel monitoring
- Instrument panel – MEC P I
- Electric starting motor
 - 12V
 - 24V

RATING DEFINITIONS AND CONDITIONS

E Rating (High Performance)

Typical applications: For vessels operating at rated load and rated speed up to 8% of the time, or 1/2 hour out of 6, (up to 30% load factor). Typical applications could include but are not limited to vessels such as

pleasure craft, harbor patrol boats, harbor master boats, some fishing or patrol boats. Typical operation ranges from 250 to 1000 hours per year.