



Cat® C32B

Marine Propulsion Engines

Commercial Applications

The Cat® C32B engine is a powerful and versatile solution for commercial and high performance applications, offering a rated power range of 1200 to 1450bhp. It meets stringent emissions standards, including IMO II, IMO II/III, and U.S. EPA Tier 4. The Cat C32B engine has an optimized design to enhance power density, deliver more power without significantly increasing size or weight. Additionally, its improved durability reduces maintenance needs and extends operational life, thereby lowering the total cost of ownership. This combination of high-power output, strict emissions compliance, and cost-effective durability makes the Cat C32B engine an excellent choice.

FEATURES AND BENEFITS:

ENGINE DESIGN

- Optimized engine design to enable increased power density
- Improved engine durability lowering total cost of ownership compared to previous models. Airless aftertreatment injection system
- Factory certified IMOII/IMO III/U.S. EPA Tier 4 systems
- IMO III system can be switched to IMO II mode in approved areas
- Updated engine electronic control module (ADEM VI)
- Updated Aftercooler design for increased cooling
- Marine alarm and protection system available
- Marine Classification Society (MCS) certifications available

POWER DENSITY

- Updated engine design allows increased cylinder pressure and power output.

INTEGRATION

- New airless aftertreatment design simplifies vessel installation and reduces vessel air compressor cost and maintenance.

DURABILITY

- Improved core engine component design delivers a more robust engine when compared to previous models.

Specifications

Configuration	V 12, 4-Stroke Cycle Diesel	Bore × Stroke	145 mm × 162 mm/5.7 in × 6.38 in
Emissions	IMO II, IMO II/III, U.S. EPA Tier 4	Refill Capacity Lube Oil System with Oil Filter Change	146 L (38.5 gal) – Deep Sump
Rated Engine Speed	1600 – 2100 rpm	Oil Change Interval	1000 hour A rating/750 hour B rating
Displacement	32.1 L (1959 in ³)	Rotation (From Flywheel End)	Counterclockwise
Aspiration	Twin Turbocharged – Aftercooled	Cooling	Heat Exchanger or Keel Cooled
Governor	Electronic (ADEM VI)		
Flywheel Housing	SAE No. 0		



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Ratings and Fuel Consumption

Commercial Propulsion Engines

Rating	mhp	bhp	bkW	rpm	U.S. g/h	g/bkW-h	IMO	U.S. EPA	EU	China
A	1217	1200	895	1600-1800	58	209.4	II/III	Tier 4	NC	NC
A	1319	1300	970	1800	63	208	II/III	Tier 4	NC	NC
B	1470	1450	1081	1800-2100	73	218.2	II/II	Tier 4	NC	NC

Rating Definition:

A Rating (Unrestricted Continuous)

Typical applications: For Vessels operating at rated load and rated speed up to 100% of the time without interruption or load cycling (80% to 100% load factor).

Typical operation ranges from 5000 to 8000 hours per year.

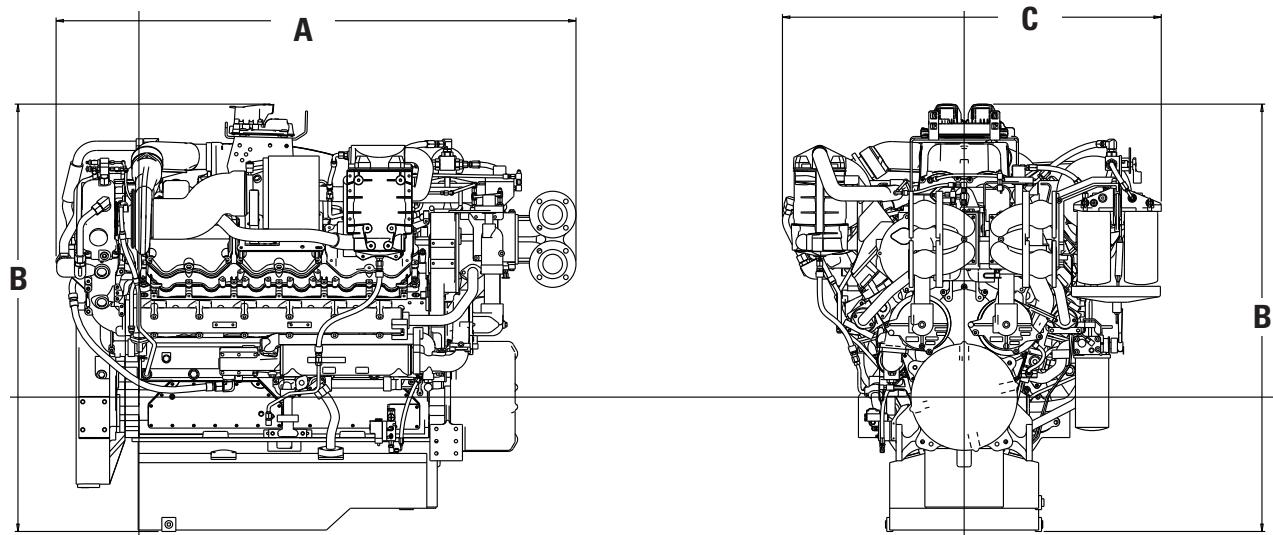
B Rating (Heavy Duty)

Typical applications: For vessels operating at rated load and rated speed up to 80% of the time with some load cycling (40% to 80% load factor).

Typical operation ranges from 3000 to 5000 hours per year.

Dimensions

All dimensions are approximate.



A Length	Maximum	2295 mm	90 in	C Width	Maximum	1550 mm	61 in
	Minimum	2131 mm	84 in		Minimum	1550 mm	61 in
B Height	Maximum	1760 mm	70 in	Dry Weight	Maximum	3650 kg	8050 lb
	Minimum	1760 mm	70 in		Minimum	3400 kg	7495 lb

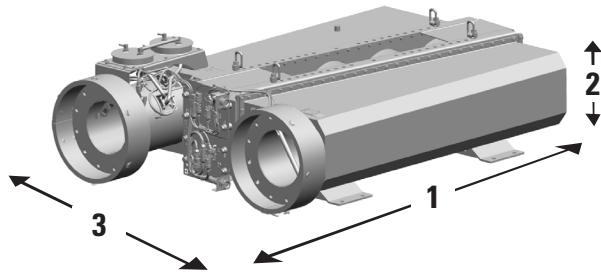
Clean Emissions Module (CEM)

The C32B engine requires Selective Catalyst Reduction (SCR) technology. The easy-to-install Cat® SCR System is an exhaust gas aftertreatment solution certified to U.S. EPA Tier 4/IMO III emission standards.

- Airless SCR technology
- IMO II-III switchable calibrations available
- Maintains engine efficiency, durability and reliability
- Easy to install with minimum impact to vessel design
- Compact package from one single source
- Available for new builds and retrofits
- Wall mounted dosing cabinet design for easier service and installation
- For detailed dimensions and installation requirements, please refer to the latest revision of the Application and Installation (A&I) guide

Clean Emissions Module (CEM)

Available in U-flow configurations (shown) and Z-flow configurations.



Dosing Cabinet



Model	Z-Flow	U-Flow	Dosing Cabinet
1 Length	2508 mm	98.7 in	2336 mm
2 Height	711 mm	28 in	92 in
3 Width	1606 mm	63.2 in	794 mm
Weight	648 kg	1428.6 lb	31.3 in
			1453 mm
			57.2 in
			344 mm
			13.5 in
			145 kg
			319.7 lb

Standard and Optional Equipment

Standard Equipment

- ADEM VI electronic control module
- Air Cleaner/Closed Crankcase Ventilation
- Gear-driven Jacket Water (JW) and Sea Water (SW) pump (if equipped)
- Water-cooled exhaust manifolds and turbochargers
- MEUI-C fuel system
- 1000-hour oil pan (deep sump with A-Rating)
- Right Hand (RH) or Left Hand (LH) service side options
- Duplex fuel filtration

Optional Equipment

- 120 V or 240 V jacket water heater
- SAE A or B Power Take Off (PTO) (RH rear)
- SAE A or B PTO (LH rear with Keel only)
- Front driven PTO
- 75 A, 105 A, or 175 A alternator
- Duplex lube oil
- Shallow sump oil pan
- Marine alarm and protection
- Safety of Life at Sea (SOLAS) shielding
- See Marine price list for additional attachments

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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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