



# Cat® C32B

## Marine Auxiliary Engines Commercial Applications

The Cat® C32B engine is a powerful and versatile solution for commercial and high performance applications, offering a rated power of 1053kW or 1211kW. 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. This combination of high-power output and strict emissions compliance 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
- Airless aftertreatment injection system
- Factory certified IMO II, IMO II/III, and U.S. EPA T4 systems
- IMO III system can be switched to IMO II mode in approved areas
- Updated engine electronic control module (ADEM VI)
- Marine Classification Society (MCS) certifications available
- Updated aftercooler and heat exchanger design for increased cooling
- Marine alarm and protection system 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

<b>Configuration</b>	V 12, 4-Stroke Cycle Diesel
<b>Emissions</b>	IMO II, IMO III, U.S. EPA Tier 4
<b>Rated Engine Speed</b>	1500/1800 rpm
<b>Displacement</b>	32.1 L (1959 in <sup>3</sup> )
<b>Aspiration</b>	Twin Turbocharged – Aftercooled
<b>Governor</b>	Electronic (ADEM VI)
<b>Flywheel Housing</b>	SAE No. 0

<b>Bore × Stroke</b>	145 mm × 162 mm/5.7 in × 6.38 in
<b>Refill Capacity Lube Oil System with Oil Filter Change</b>	146 L (38.5 gal) – Deep Pan
<b>Oil Change Interval</b>	750 hours – Deep Pan
<b>Rotation (From Flywheel End)</b>	Counterclockwise
<b>Cooling</b>	Heat Exchanger or Keel Cooled

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## Ratings and Fuel Consumption

### Commercial Auxiliary Engines

bhp	bkW	rpm	U.S. g/h	g/bkW-hr	IMO	U.S. EPA
1411	1053	1500	66.5	203.3	II/III	-
1623	1211	1800	78	207.7	II/III	T4

### Rating Definition Generator Sets and Auxiliary Engines:

All Cat Marine auxiliary engines and generator sets are rated for prime power for continuous electric service according to ISO 8528-1.

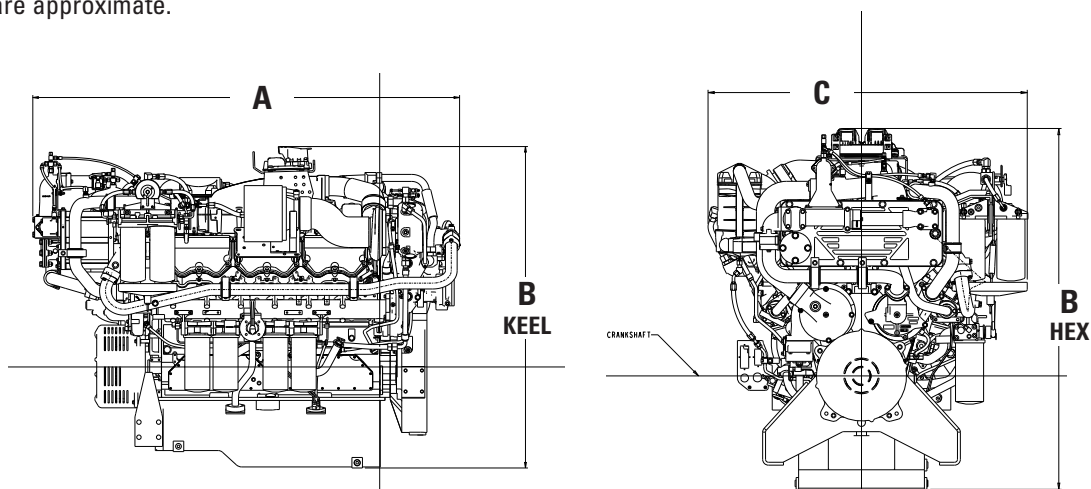
Hours per year: unlimited

Load Factor: < 70%

Overload Capacity: + 10% (Maximum of 1 hour in 12, maximum of 25 hours per year.)

## Dimensions

All dimensions are approximate.



KEEL			HEX		
<b>A</b> Length	2131 mm	84 in	<b>A</b> Length	2320 mm	92 in
<b>B</b> Height	1760 mm	70 in	<b>B</b> Height	1750 mm	69 in
<b>C</b> Width	1550 mm	61 in	<b>C</b> Width	1550 mm	61 in
Dry Weight	3400 kg	7495 lb	Dry Weight	3980 kg	8775 lb

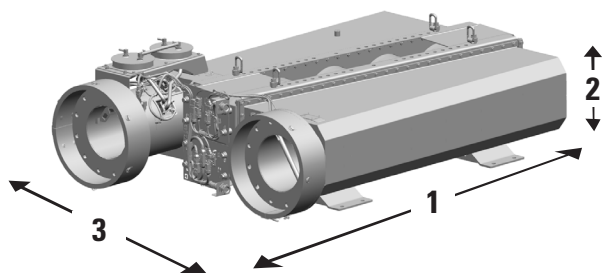
## Clean Emissions Module (CEM)

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.

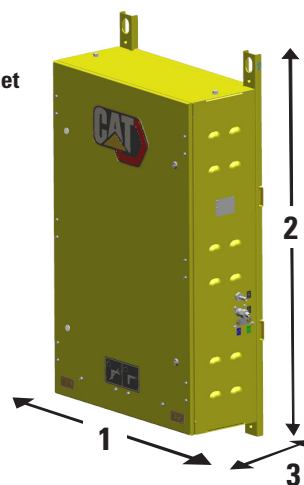
- Airless SCR technology
- IMO II-III switchable calibrations available
- Maintains engine efficiency, durability and reliability
- Easy to install with minimum impact to vessel design
- Compact package from one single source
- Available for new builds and retrofits
- Wall mounted dosing cabinet design 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	92 in	794 mm	31.3 in
2 Height	711 mm	28 in	711 mm	28 in	1453 mm	57.2 in
3 Width	1606 mm	63.2 in	1605 mm	63.2 in	344 mm	13.5 in
Weight	648 kg	1428.6 lb	647 kg	1426.4 lb	145 kg	319.7 lb

## Standard and Optional Equipment

### Standard Equipment

- ADEM VI electronic control module
- Air Cleaner/Closed Crankcase Ventilation
- Titanium plate heat exchanger (if equipped)
- Gear-driven Jacket Water (JW) and Sea Water (SW) pump (if equipped)
- Water-cooled exhaust manifolds and turbochargers
- MEUI-C Fuel System
- 750-hour oil pan (deep sump)
- 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 filters
- Shallow sump oil pan
- Marine alarm and protection
- Safety of Life at Sea (SOLAS) Shielding

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