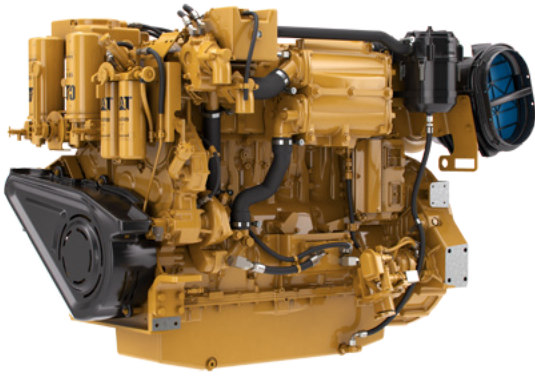


C18

MARINE AUXILIARY / DIESEL ELECTRIC PROPULSION ENGINE

599 bkW (803 bhp) @ 1800 rpm (60 Hz)



C18 Marine Auxiliary Engine/DEP
U.S. EPA Tier 3 / IMO II
Image may not reflect actual product.

ENGINE SPECIFICATIONS

Configuration

In-line 6, 4-stroke-cycle diesel

Emissions

U.S. EPA Tier 3 / IMO II
emissions certified

Rated Engine Speed

1800 rpm

Bore x Stroke

145 mm x 183 mm / 5.7 in x 7.2 in

Displacement

18 Liter
1098 cu in

Aspiration

Turbocharged-aftercooled
aspiration

Governor

Electronic (A4 ECM)

Refill Capacity

Lube Oil System w/Oil filter change:
49 L (13 gal) - shallow pan
68 L (18 gal) - deep pan

Oil Change Interval

250 hrs - shallow pan
500 hrs - deep pan

Cooling

Heat exchanger or keel cooled

Flywheel Housing

SAE No. 0 with SAE
No. 18 flywheel (136 teeth)

Rotation

Counterclockwise from flywheel end

FEATURES AND BENEFITS

- Separate-circuit aftercooling – no sea water in aftercooler
- Reliable electronic controlled unit injector fuel system
- Enhanced control of fuel injection optimized through crank timing and the A4 ECM technology
- Advanced combustion technology to optimize fuel consumption and meet emissions without aftertreatment
- Industry leading power reserve
- Wide range of available Marine Society certifications
- Industry-leading warranty coverage for factory packaged components
- Global dealer network for service in any location

STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooled (SCAC)
- Heavy-duty inlet air filter
- Heat exchanger or keel cooling
- Watercooled exhaust manifold and turbocharger
- Deep or shallow sump oil pan
- Oil filler, filter, and dipstick, front service
- MEUI fuel system
- Fuel filter, front service
- Fuel transfer and priming pumps
- Hybrid fuel lines
- Electronic fuel/air ratio control
- Electronic diagnostics and fault logging
- Front support adjustable mounting system
- Front damper guard
- Customer wiring and service tool connector

OPTIONAL ATTACHMENTS

- Starting motors – electric or air
- Charging alternator
- Duplex oil filters, front service
- Duplex fuel filters, front service
- Primary fuel/water separator, fuel cooler
- MECP 1 control panel
- MGCP II or MGCP IIIB control panel with Cat Alarm and Protection System
- Closed crankcase fumes disposal
- Power take-offs

AUXILIARY RATING DEFINITION

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 |

BUILT FOR IT.™



TECHNICAL DATA

C18 Marine Auxiliary Engine/DEP

FUEL CONSUMPTION

| %Power | Brake Specific Fuel Consumption 599 bkW (803 bhp) @ 1800 rpm | | | |
|--------|---|-----------|-----|----------|
| | bhp | lb/bhp-hr | bkW | g/bkW-hr |
| 100 | 803 | 0.350 | 599 | 212.7 |
| 90 | 723 | 0.351 | 539 | 213.5 |
| 80 | 643 | 0.356 | 479 | 216.8 |
| 70 | 562 | 0.341 | 419 | 207.7 |
| 60 | 482 | 0.348 | 359 | 211.8 |
| 50 | 402 | 0.364 | 300 | 221.2 |
| 40 | 321 | 0.376 | 240 | 240.6 |
| 30 | 241 | 0.396 | 180 | 250.7 |

- ISO 3046/1 fluid consumption tolerance of +5%

Note:

Consult your local Cat dealer to create a customized engine TCO (Total Cost of Ownership) analysis specific to your vessel.

Dealers (only): Please reference TMI Web for most current information.

DIMENSIONS & WEIGHT

| | Length (1) | Height (2) | Width (3) | Engine dry weight |
|------|-----------------|-----------------|-----------------|-------------------|
| min. | 73.3 in/1863 mm | 50.1 in/1273 mm | 40.6 in/1031 mm | 3988 lb/1809 kg |
| max. | 73.3 in/1863 mm | 53.0 in/1348 mm | 44.1 in/1120 mm | 4215 lb/1912 kg |

Note:

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

