



DIESEL 3.0L

150 / 230 / 270

REDEFINING THE STANDARD

The Mercury® Diesel 3.0L common-rail high-speed engine delivers exceptional performance and offers substantial improvements in acceleration and top speed – all made possible via a water-cooled variable geometry turbocharger design (VGT). This matched system, plus an advanced engine-control system, provides reduced time to plane and outstanding overall performance.

This powerful, compact package can fit in virtually any installation while low fuel consumption results in affordable operating costs and extended travel range.

The Mercury Diesel 3.0L highspeed engine was designed to be durable, with features and materials specific to marine applications, and it has proved itself by meeting rigorous test standards. The engine is assembled in a highly technical manufacturing facility that employs the latest in quality practices and controls, further underscoring confidence in reliability.

The 3.0L engine is compatible with all Mercury controls and SmartCraft® digital technologies, and it's serviceable through the Mercury global service network. SmartCraft compatibility offers boaters a choice between conventional mechanical throttle and shift or Mercury Digital Throttle & Shift (DTS) controls. The DTS system includes optional Joystick Piloting for Inboards (JPI) and Joystick Piloting for Sterndrives (JPS).



| General Specifications | |
|---------------------------|----------------------------------|
| Configuration | 6-cylinder (V6), 4-stroke diesel |
| Bore and stroke mm (inch) | 83 x 92 (3.27 x 6.62) |
| Displacement L (in3) | 3.0 (183) |
| Air handling | Turbocharged and aftercooled |
| Fuel system | High-pressure common rail |
| Rotation | Counterclockwise facing flywheel |

| Bobtail Dimensions and Weight | |
|-------------------------------|---------------------------------|
| Overall length mm (inch) | 931 (36.6) |
| Overall width mm (inch) | 851 (33.5) |
| Overall height mm (inch) | 784 (30.9) |
| Dry weight SD/IB | 358kg (789lbs) / 348kg (767lbs) |

**Weight includes engine mount supports, alternator and engine cover*

| Propulsion System | Model | 3.0L 150hp | 3.0L 230hp | 3.0L 270hp | Weight (kg/lb) |
|-------------------|----------------|---|---|---|----------------|
| Sterndrive* | Bravo One X® | 1.36:1 / 1.50:1 / 1.65:1 | 1.36:1 / 1.50:1 / 1.65:1 | 1.36:1 / 1.50:1 / 1.65:1 | 100 / 220 |
| | Bravo Two X® | 1.50:1 / 1.65:1 / 1.81:1 / 2.00:1 / 2.20:1 | 1.50:1 / 1.65:1 / 1.81:1 / 2.00:1 / 2.20:1 | 1.50:1 / 1.65:1 / 1.81:1 / 2.00:1 / 2.20:1 | 105 / 231 |
| | Bravo Three X® | 1.36:1 / 1.50:1 / 1.65:1 / 1.81:1 / 2.00:1 / 2.20:1 | 1.36:1 / 1.50:1 / 1.65:1 / 1.81:1 / 2.00:1 / 2.20:1 | 1.36:1 / 1.50:1 / 1.65:1 / 1.81:1 / 2.00:1 / 2.20:1 | 109 / 240 |
| | Bravo One XR | 1.36:1 / 1.50:1 | 1.36:1 / 1.50:1 | 1.36:1 / 1.50:1 | 100 / 220 |
| | Bravo Two XR | 1.65:1 | 1.65:1 | 1.65:1 | 105 / 231 |
| | Bravo Three XR | 1.65:1 / 1.81:1 / 2.00:1 | 1.65:1 / 1.81:1 / 2.00:1 | 1.65:1 / 1.81:1 / 2.00:1 | 109 / 240 |
| Inboard | ZF 45C | - | 1.00:1 | 1.00:1 | 31 / 69 |
| | ZF 68 | - | 1.25:1 / 1.75:1 / 2.78:1 | 1.25:1 / 1.75:1 / 2.78:1 | 46 / 103 |
| | ZF 68A | - | 1.21:1 / 1.56:1 / 2.03:1 / 2.52:1 / 2.68:1 | 1.21:1 / 1.56:1 / 2.03:1 / 2.52:1 / 2.68:1 | 44 / 97 |
| | ZF 68IV | - | 1.29:1 / 1.56:1 / 1.99:1 | 1.29:1 / 1.56:1 / 1.99:1 | 62 / 136 |

**Weights reflect sterndrive & transom*

PACK A PUNCH

DIESEL

Mercury Diesel engines offer an exhilarating yet refined experience. Advanced turbocharging and injection technologies produce a power band that's precisely calibrated for marine performance and outstanding economy. Lightweight designs further boost performance, while clean and quiet operation enhance your day on the water.



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STERNDRIVE



3.0L

230 / 270
INBOARD

Engine

- Aluminum cylinder heads
- Compacted Graphite Iron cylinder block, light weight, high strength with max heat transfer for optimal cooling
- 60-degree V6 block
- Fracture-split connecting rods
- Front chain-driven timing system
- Glow plug system standard

Fuel System

- Bosch® CP4.2 w/ integrated gear-driven lift pump
- Bosch CRS 2.2 solenoid fuel injectors
- Engine-mounted 4 micron filter protecting the system

Electrical System

- 12V
- High-output alternator: 12V 110 Amp

Air Intake

- Air filter/silencer included for noise reduction

Engine Controls

- Bosch EDC17 Controller
- Rubber-isolated controller mounting to ensure durability

Turbocharger

- Single turbo
- Electrically actuated VGT
- Oil- and glycol-cooled center section
- Glycol-cooled turbine housing

Exhaust System

- Closed-cooled manifold
- Closed-cooled turbocharger
- Seawater-cooled riser

Cooling System

- Thermostatically controlled
- Closed-cooled engine for corrosion protection
- Seawater-cooled charge air cooler
- Standard cabin heater connections
- On-engine sea strainer
- Seawater-cooled fuel cooler

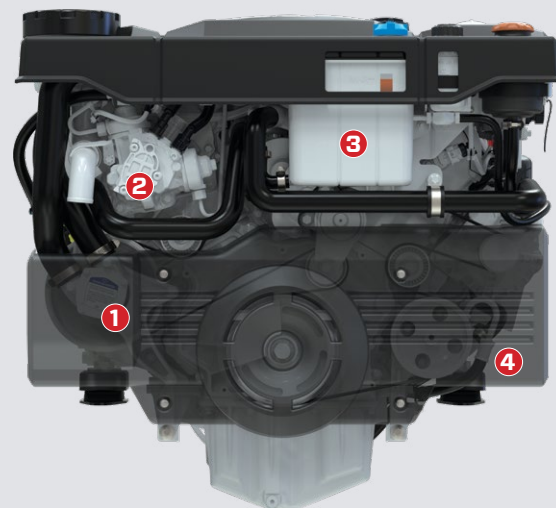
Emissions

- EPA Tier 3
- RCD 2
- IMO Tier 2
- BSO 2

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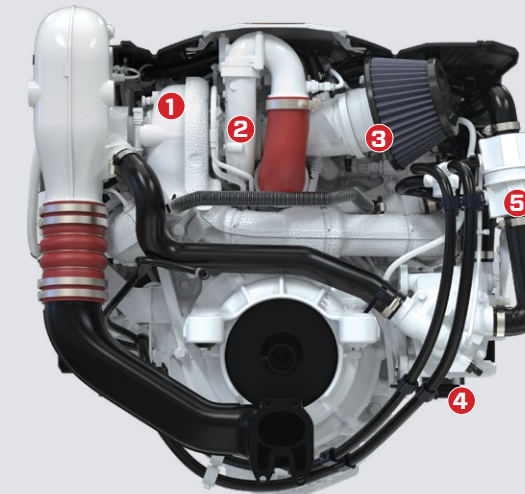
FRONT VIEW FEATURES

1. Raw-Water Pump
2. High Pressure Fuel Pump
3. Coolant Reservoir
4. Optional Belt Cover



REAR VIEW FEATURES

1. Water-Cooled VGT Turbocharger
2. Turbo Compressor
3. Air Filter & Silencer
4. Engine mount
5. Power Steering Cooler



TOP VIEW FEATURES

1. Fuse Box
2. MerCathode® LED

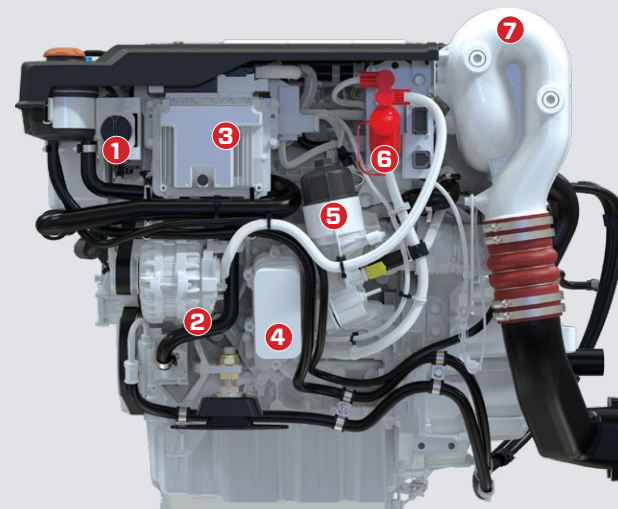


TOP VIEW FEATURES

1. Maintenance Label Decal
2. Oil-Fill Cap
3. Coolant Fill
4. Drive Lube (Sterndrive Only)
5. Power Steering (Sterndrive Only)

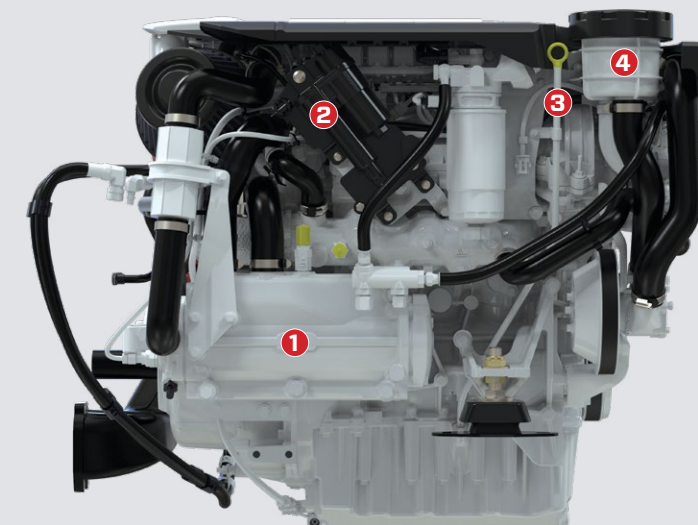
PORT SIDE VIEW FEATURES

1. Diagnostic Port
2. Alternator
3. ECU
4. Engine Oil Cooler
5. Oil Filter
6. Hot Stud
7. Riser



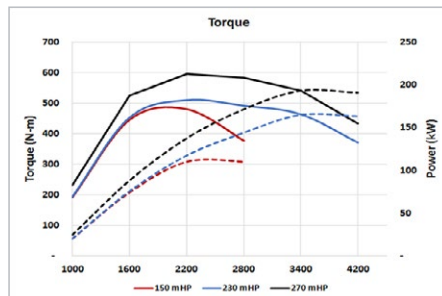
STARBOARD SIDE VIEW FEATURES

1. Heat Exchanger
2. Shift Plate
3. Dipstick
4. On-Engine Seawater Strainer

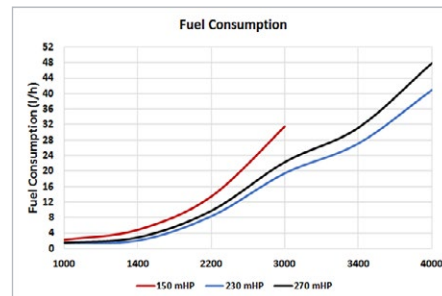


| Specifications | 150 mHP | 230 mHP | 270 mHP |
|--|---|-------------------|-------------------|
| Compression ratio | 16.5:1 | | |
| Fuel pre-filtration requirement | Not required but feasible | | |
| Fuel lift pump | On engine | | |
| High-pressure fuel pump | Bosch CP 4.2 w/ integrated gear lift pump | | |
| Valves per cylinder | 4 | | |
| Pistons | Oil jet cooled | | |
| Fuel injectors | Bosch CRS 2.20 (Solenoid) | | |
| Air inlet (port rear) | Filtered and silenced | | |
| Turbocharger | Honeywell VGT | | |
| Engine and turbocharger cooling | Closed cooled | | |
| Coolers; CAC, oil, fuel and engine | Tube and shell | | |
| Seawater pump/inlet mm (in) | 38 (1.5) | | |
| Peak torque at rpm Nm | 493 Nm @ 2000 rpm | 503 Nm @ 2200 rpm | 594 Nm @ 2200 rpm |
| Oil sump volume | 8.5L | | |
| Dipstick range | 1.0L | | |
| Oil maintenance interval hr | 200 | | |
| Flywheel size mm (in) | 290 (11.42) | | |
| Flywheel housing | SAE 8 | | |
| Electrical system | 12V 110A | | |
| Engine stop | ECU Controlled | | |
| Engine Control Unit (ECU) | Bosch EDC17 | | |
| Throttle and shift | Mercury DTS or mechanical cable | | |
| Helm and gauge compatibility | Mercury SmartCraft | | |
| Mercury Joystick Piloting - Inboard & Sterndrive | Compatible | | |
| Engine and ECU covers | Texture-coated aluminum; protects engine and provides step-capable platform | | |
| Inboard: ZF 68A | 1.21, 1.56, 2.03, 2.52, 2.68 | | |
| Inboard: ZF 68 | 1.25, 1.75, 2.78 | | |
| Inboard: ZF 68IV | 1.29, 1.56, 1.99 | | |
| Inboard: ZF 45C | 1.00 | | |
| Sensors | Crank & cam position, intake manifold pressure/temp, compressor outlet temp, exhaust gas temp, fuel temp, rail pressure, water in fuel (WIF), oil pressure/temp, coolant temp, seawater pressure/temp, atmospheric pressure | | |

TORQUE & POWER (full load at crankshaft)

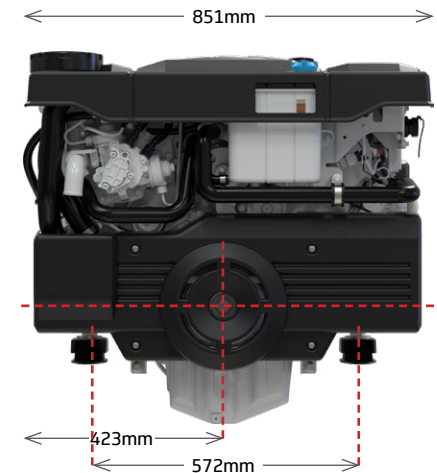
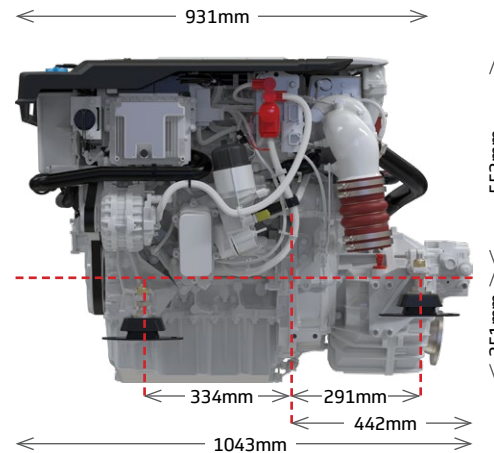


BOAT LOAD FUEL CONSUMPTION



| Model | Driveline Options | Output Power | | Fuel Use At Rated Speed L/hr (gal/hr) | Rated Use | Idle Speed (RPM) | Max Rated Engine Speed (RPM) | Emissions Ratings (no after treatment) | | |
|-------|-------------------|--------------|-----|---------------------------------------|-----------|------------------|------------------------------|--|-------|--------|
| | | mHP | kW | | | | | EPA | EU | IMO |
| 150 | Bobtail Inboard | 150 | 110 | 31.5 (8.3) | REC | 650 | 3000 | Tier 3 | RCD 2 | Tier 2 |
| 230 | Bobtail Inboard | 230 | 169 | 49 (12.9) | REC | | 4200 | Tier 3 | | |
| 270 | Bobtail Inboard | 270 | 199 | 55 (14.3) | | | | | | |

ENGINE DIMENSIONS - INBOARD



ENGINE DIMENSIONS - STERNDRIVE

