



## 5.0L - 220 HP

### Specifications

**HP:** 220

**kW:** 164

**Displacement Liter/CID:** 5.0/305

**Cylinder/Configuration:** V-8

**Bore & Stroke (in):** 3.74 x 3.48

**Bore & Stroke (mm):** 95 x 88

**Compression Ratio:** 9.4:1

**Fuel System:** 2V Carb

**Full Throttle RPM Range:** 4400-4800

**Ignition System:** Thunderbolt V

**Alternator Amp:** 65

**Alternator Watt:** 917

**Length (in/mm):** 32/813

**Width (in/mm):** 30/740

**Height (in/mm):** 22/559

**Drive Options:** Alpha, Bravo One, Bravo Two, Bravo Three

**Total Weight (lbs./kg):** Alpha : 946/430

**Total Weight (lbs./kg):** Bravo One: 987/449

**Total Weight (lbs./kg):** Bravo Two: 1004/456

**Total Weight (lbs./kg):** Bravo Three: 1013/460

**Drive/Gear Ratios (primary/optional/high altitude):** Alpha:  
1.62/-/1.81:1

**Drive/Gear Ratios (primary/optional/high altitude):** Bravo  
One: 1.65/1.5/-/1

**Drive/Gear Ratios (primary/optional/high altitude):** Bravo  
Two: 2.2/2.0/-/1

**Drive/Gear Ratios (primary/optional/high altitude):** Bravo  
Three: 2.2/-/2.43:1

**Audio Warning System:** Standard

**Ceramic- and EDP-Coated Exhaust Elbows:** Standard

**Circulating Pump Hose Drain:** Standard

**Color-Coded Service Points:** Standard

**Compact Hydraulic Steering:** Optional

**Easy Oil Drain System:** Standard

**EDP-Coated and Painted Cast Iron Manifold(s):** Standard

**Engine Flush Port:** Kit

**MerCathode:** Kit (Alpha) / Standard (Bravo)

**Platinum-Tipped Spark Plugs:** Standard

**Power Steering:** Standard

**Remote Oil Filter:** Kit

**Risers 3":** Optional (factory-installed)

**Serpentine Belt:** Standard

**Water Drain System:** Alpha/Bravo Standard: Multiple blue  
hand-removable drain plugs located on port, starboard and  
front of engine

**Water/Fuel Separator:** Standard

**CARB Star Rating:** 3



**Features & Benefits**

- New shift plate designs and cables provide smoother, lower-effort shifting.
- Further enhancing the standard MerCathode corrosion protection, all Bravo Three drives feature additional protective anodes on the anti-cavitation plate and propshaft.
- All Alpha drive models now feature the proven Bravo-style maintenance-free hinge pins.
- The Thunderbolt V Hi-Energy Ignition continually adjusts the timing for optimum midrange performance and fuel economy. A rev limiter is standard along with an electronic idle control, which aids in low-speed operation and eliminates shifting stalls.
- To make winterization easier, color-coded drain plugs are located on the engine block, exhaust manifolds and the circulating pump hose. The blue drain plugs are hand-removable and require no tools.
- Exclusive easy oil drain system simplifies routine maintenance, allowing engine oil to be drained through a hose that exits through the boat's standard drain plug hole.
- Dry-joint exhaust system eliminates a potential leak path, reduces a buildup of condensation and decreases the threat of water ingestion for longer engine life.
- Standard audio alarm system warns of low oil pressure, high water temperature, and excessive transmission temperature, reducing chances of engine or transmission damage.
- To accommodate the narrow confines of a pontoon boat's center-pod engine compartment, MerCruiser® developed a tilt helm hydraulic steering system with hydraulic cylinders on the transom.
- 3-year/300-hour maintenance interval for most scheduled maintenance on all gas models. Some scheduled and routine maintenance is required more frequently as specified in the engine owner's manuals.
- Maintenance-free Permalube® U-Joints eliminate the need for periodic lubrication. Now standard on the Alpha, Bravo One®, Bravo Two®, and Bravo Three® drives.
- Exclusive drive lube monitor is conveniently located on top of all gas sterndrive engines for easy access and allows the lubricant to be checked from inside the boat.
- Drive fluid level is easily checked through the translucent bottle design and is electronically monitored through the Audio Warning System (optional on 3.0L).