

► **Specifications**

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## 425 HP STERNDRIVE FUEL-INJECTED



▼ **Features**

<ul style="list-style-type: none"> <li>• New shift plate designs and cables provide smoother, lower-effort shifting.</li> <li>• Further enhancing the standard MerCathode® corrosion protection, all Bravo Three® drives feature additional protective anodes on the anticavitation plate and propshaft.</li> <li>• Sterndrive offerings include Bravo One X™, Bravo One XR™, Bravo Two X® and Bravo Three X®.</li> <li>• MerCruiser® MPI engines with SmartCraft® feature the most sophisticated boat/engine data-management system available. This system monitors up to 64 internal and external functions and continuously adjusts the engine operations for optimum performance.</li> <li>• PCM 555 engine control module uses a Motorola®-supplied microprocessor for unprecedented onboard computing power. The Mercury®-exclusive 555 control module serves as the central component of the SmartCraft Controller Area Network (CAN).</li> <li>• Mercury-exclusive PCM 555 processor optimizes fuel mixture, knock control and ignition timing independently for each cylinder, resulting in improved, precise performance. PCM 555 also enables the connection of SmartCraft components.</li> <li>• Distributorless ignition system improves timing accuracy and eliminates mechanical timing adjustments.</li> <li>• Engine Guardian™ proactively monitors and protects your engine from the damaging effects of low oil pressure, high engine temperature, engine over-speed, or low cooling water pressure.</li> <li>• The Engine Guardian system not only detects and alerts you of an engine problem, it automatically reduces power to a safe level that allows you to continue operating.</li> <li>• The SmartCraft Digital Throttle &amp; Shift (DTS) System brings digital precision to engine throttle and shift (optional).</li> <li>• DTS provides unprecedented smooth shifting (compared to mechanical systems); precise throttle control; and superior, reliable performance. SmartCraft DTS offered as a boatbuilder option on the 496 models (single- and twin-engine applications).</li> <li>• The 555 control module enables boat manufacturers to offer state-of-the-art digital information displays like the Mercury-exclusive SC5000 System View, a small computer screen that allows the driver to easily monitor and verify real-time engine and boat data.</li> <li>• Dry-joint technology reduces the potential for water leakage in exhaust components and improves corrosion resistance in the exhaust system.</li> <li>• MerCruiser ignition strategy optimizes exhaust temperatures. These optimized temperatures reduce water vapor condensation, thereby minimizing the potential for water ingestion and related exhaust corrosion.</li> <li>• MerCruiser water-cooled and insulated fuel system, which eliminates the need for a return line to the fuel tank, helps keep fuel temperatures down and greatly reduces the potential for vapor lock with today's fuels.</li> </ul>	<ul style="list-style-type: none"> <li>• Maximized exhaust riser height within the available package envelope (additional two inches over previous big blocks) and increased down-angle improve resistance to water ingestion.</li> <li>• MerCruiser-exclusive water drain system – an air-actuated, single-point interface to two drain points – provides a fast, convenient means of draining water from the engine.</li> <li>• The innovative water drain system effectively enables boaters to extend their boating season into the cold months.</li> <li>• MerCruiser closed-cooling system uses long-life coolant lasting up to five years for reduced maintenance. The more efficient cooling made possible by this system results in more accurate electronic engine management and a more aggressive ignition spark for efficient combustion and increased power.</li> <li>• High-grade, 316L stainless steel exhaust elbows deliver ultimate corrosion resistance.</li> <li>• 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.</li> <li>• Platinum-tipped spark plugs ensure long life and trouble-free starts.</li> <li>• Color-coded service points for easy identification of key service areas (yellow – engine oil; black – drive oil; blue – engine coolant; brown – power steering fluid).</li> <li>• 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 manual.</li> <li>• All MerCruiser gasoline engines (500 hp or less) are designed to run on regular 87-octane fuel, instead of premium, making them less expensive to operate.</li> <li>• All Mercury® engines include a 3-year limited corrosion failure warranty.</li> <li>• Standard MerCathode closed-cooling, aluminum manifolds and stainless steel exhaust elbows offer the ultimate in corrosion protection.</li> <li>• Easy access drive lube monitor on all gas sterndrive engines allows the drive lubricant to be checked from inside the boat and is electronically monitored through the Audio Warning System (except 3.0L) – or Engine Guardian (SmartCraft models).</li> <li>• Drive fluid level is easily checked through the translucent bottle design and is electronically monitored through the Audio Warning System (optional on 3.0L) or SmartCraft monitor (SmartCraft models only).</li> <li>• Mercury Propellers® offers a line of 3-, 4-, and 5-blade propellers engineered specifically for MerCruiser sterndrives. With 14 unique aluminum and stainless steel propeller styles and over 200 pitch options, it's easy to find the right propeller.</li> <li>• Greasable drive coupler can be lubricated from inside the boat, simplifying routine maintenance.</li> </ul>
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# 496 MAG HIGH OUTPUT (HO)

► **Features**

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## 425 HP STERNDRIVE • FUEL-INJECTED

### Specifications

<b>HP</b>	425
<b>kW</b>	317
<b>SmartCraft</b>	Yes
<b>Displacement Liter/CID</b>	8.1/496
<b>Cylinder/Configuration</b>	V-8
<b>Bore &amp; Stroke (in)</b>	4.25 x 4.38
<b>Bore &amp; Stroke (mm)</b>	108 x 111
<b>Compression Ratio</b>	9.1:1
<b>Fuel Induction System</b>	MPI
<b>Full-Throttle RPM Range</b>	4600 – 5000
<b>Ignition System</b>	PCM 555 Distributorless
<b>Alternator Amp</b>	65
<b>Alternator Watt</b>	917
<b>Length (in/mm)</b>	35/878
<b>Width (in/mm)</b>	33/838
<b>Height (in/mm)</b>	24/610
<b>Drive Options</b>	Bravo One X, Bravo One XR, Bravo Two X, Bravo Three X
<b>Total Weight (lb/kg)</b>	Bravo One X, XR: 1199/544
<b>Total Weight (lb/kg)</b>	Bravo Two X: 1214/551
<b>Total Weight (lb/kg)</b>	Bravo Three X: 1224/556
<b>Drive/Gear Ratios (primary/optional/high-altitude)</b>	Bravo One X: 1.5/1.36/1.65:1
<b>Drive/Gear Ratios (primary/optional/high-altitude)</b>	Bravo One XR: 1.5/1.35/1.26/1.1:1
<b>Drive/Gear Ratios (primary/optional/high-altitude)</b>	Bravo Two X: 1.81/2.00/2.2:1
<b>Drive/Gear Ratios (primary/optional/high-altitude)</b>	Bravo Three X: 1.81/2.00/2.2:1
<b>Audio Warning System</b>	Standard (Engine Guardian)
<b>Closed-Cooling</b>	Standard
<b>Color-Coded Service Points</b>	Standard
<b>Easy Oil Drain System</b>	Standard
<b>Exhaust Manifold(s) Double-EDP and Ceramic-Coated Aluminum</b>	Standard
<b>Knock Control</b>	Standard
<b>MerCathode</b>	Standard
<b>Platinum-Tipped Spark Plugs</b>	Standard
<b>Power Steering</b>	Standard
<b>Remote Oil Filter</b>	Standard
<b>Risers 2" and 6"</b>	Optional
<b>Serpentine Belt</b>	Standard
<b>Stainless Steel Exhaust Elbows</b>	Standard
<b>Water-Cooled Fuel System</b>	Standard
<b>Water Drain System</b>	Bravo standard: Air-actuated, single-point drain system – hand air pump included with engine
<b>Water/Fuel Separator</b>	Standard

#### EFFECTIVE JULY 2003

Option availability determined by boat manufacturers within their boat model offerings.  
All models and specifications are subject to change without notice or incurring obligation to modify previously manufactured products.