Yamaha proudly announces a new addition to its mid-range four stroke stable; the F70A. Using advanced features and technology to make it extremely light yet very powerful, it is the ideal outboard for a myriad of lightweight fishing boats and pleasure craft.

Featuring the lightest weight and highest horsepower-per-litre-of-displacement in the 70hp class, the Yamaha F70A takes advantage of the leading edge of technology while maintaining the fuel-efficient, smooth, and quiet operation Yamaha four-strokes are known for. It also features Yamaha’s Multi-function Tiller Handle or our Digital Network gauge system which provides accurate up to the second information on the operations of your Yamaha outboard.

The new Yamaha F70A. Big league technology in a very light weight, fuel efficient outboard.

- **Best-in-class horsepower-per-litre:** Advanced 16-valve, single overhead camshaft (SOHC), in-line 4 cylinder engine design.
- **Lightest weight in class:** At 120Kg, it’s lighter than all four-stroke and Direct-Injection two-stroke outboards of similar horsepower.*
- **Remarkably responsive:** A single throttle valve works in concert with a tuned, long track intake system and high-ratio gearcase.
- **Outstanding fuel efficiency:** Yamaha’s Multi-point Electronic Fuel Injection System and dependable ECM microcomputer engine control.
- **Proven reliability:** Designed, built, and extensively tested to Yamaha’s stringent standards for reliability.
- **Smooth, dependable mechanical shifting and throttle:** Works with all Yamaha binnacle and most side-mount mechanical control boxes.
- **Operator convenience:** Compatible with conventional analogue or optional Digital Network gauges, for even more up-to-the-second information.
- **Quiet, smooth operation:** Yamaha’s labyrinth exhaust and Long-Span Mounting System combines with a stylish yet functional exterior.
- **Ease of service and lasting value:** Computerised Yamaha Diagnostic System (YDIS), Ultimate Corrosion Protection System, and water-draining air intake cowling.
- **Peace of mind:** Advanced engine warning and protection system and standard four year warranty.##

*Published weight *,##Conditions apply.
**Yamaha F70A Features**

**Models**
- Long and extra long shaft
- Tiller handle or forward control

**Dimensions**
- Overall length (A) 713 mm
- Overall width (B) 386 mm
- Overall height (C) 1476 mm (L)
- Engine transom height (D) 534 mm
- Steering angle (E) 40 deg. each direction

**Gauges**
- Digital Network Gauges Compatible
- Yamaha Multifunction Compatible
- Analogue Compatible
- External NMEA-2000® Display Compatible

**Controls**
- Mechanical (Cable) Compatible
- Multifunction Tiller Handle Compatible

**Miscellaneous**
- Digital Network Gateway Compatible
- Analogue Gauge Interface Compatible
- Digital Network Triducer® Compatible
- YCOP™ (Immobiliser) Compatible
- Variable Trolling RPM Compatible

* Consult appropriate Yamaha rigging information for complete rigging compatibility and requirements information for particular configurations.
Yamaha F70A Features

- ECM Micro Computer control
- Water draining air intake duct
- Vapour reduction fuel return system
- Four-stroke, 16-valve SOHC, in-line
- Vapour burning system
- Multi-point fuel injection
- Variable trolling RPM switch (VTS™)
- Long intake manifold, single throttle valve
- Single action steering friction (optional)
- Blow-by gas reburning system
- Multi-function tiller handle (optional)
- Vapour burning system
- Labyrinth exhaust
- Digital Network gauges (optional)
- Two piece upper case
- Combined upper case with oil pan
- Large anti-splash plate
- Water-sealed outer wall
- Large water separator with water sensor
- 2.33 high gear ratio
- Self-sacrificing Anodes
- Long-span mounting system
- Digital Network gauges (optional)
- Water-sealed outer wall
- Two piece upper case
- Combined upper case with oil pan
- Large anti-splash plate
- Large water separator with water sensor

Warning and protection systems

- Over-heat warning
- Sensor compensation system
- Start-in-Gear protection
- YCOP™ Immobiliser System (optional)
- Over-rev limiter
- Low oil pressure warning
- Shift-in prevention at open throttle
- YDIS: Yamaha Diagnostic System

Ultimate corrosion protection system

- Special Aluminium alloy: YDC30
- Self-Sacrificing Anodan
- Freshwater flushing device
- Anodic exhaust coating (Alumite)
- Electro-deposited inside/outside paint process

Symbol Legend

- Power/Performance
- Reliability/Durability
- Convenience/Control
NEW

F70A
four-stroke
Horsepower per litre
An advanced powerhead design features a single overhead camshaft (SOHC), yet with four valves per cylinder, for maximum power and efficiency. Total intake valve area is increased 17%, while the pistons and valves are up to 10% lighter (when compared to our F60 model), giving it substantially more horsepower-per-litre of engine displacement than competitive outboards, both four-stroke and two-stroke direct-injected.

*Of engine displacement, rounded to nearest litre and horsepower

### Four-stroke: Horsepower per litre comparison

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yamaha F70A</strong></td>
<td>70</td>
</tr>
<tr>
<td><strong>Nearest Competitor</strong></td>
<td>47</td>
</tr>
</tbody>
</table>

### D.I. Two-stroke: Horsepower per litre comparison

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yamaha F70A</strong></td>
<td>70</td>
</tr>
<tr>
<td><strong>Nearest Competitor</strong></td>
<td>58</td>
</tr>
</tbody>
</table>

Lightest weight in class
From the specially designed engine block to the two-piece upper case, every gram of weight-savings has been realised for maximum performance without sacrificing durability. Yamaha's new F70A is not only the lightest four-stroke 70 horsepower outboard, it’s even lighter than competitive two-stroke direct-injected outboards.

**Published weight

### Four-stroke: Weight comparison

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yamaha F70A</strong></td>
<td>120Kg</td>
</tr>
<tr>
<td><strong>Nearest Competitor</strong></td>
<td>155Kg</td>
</tr>
</tbody>
</table>

### D.I. Two-stroke: Weight comparison

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Yamaha F70A</strong></td>
<td>150Kg</td>
</tr>
<tr>
<td><strong>Nearest Competitor</strong></td>
<td>145Kg</td>
</tr>
</tbody>
</table>
Precise throttle control
All air entering the engine block of Yamaha’s new F70A four-stroke is routed through a single throttle valve, to ensure the precise amount of air necessary for optimum power and fuel efficiency. It then enters each cylinder through individual long intake tracks, which are ‘pulse tuned’ to provide air at the precise volume and timing for maximum density and power.

Maximum power and efficiency
Four individual compact electronic fuel injectors deliver the exact amount of fuel needed for optimum performance and economy. Controlled by the Engine Control Module via input from an array of on-engine sensors, their location just above the intake valves enhances fuel atomisation, resulting in more efficient combustion.

Hole shot acceleration
Yamaha’s F70A provides outstanding hole shot and acceleration thanks in part to an advanced sensor that allows maximum safe ignition timing and a gearcase featuring a high 2.33:1 gear ratio, with specially hardened pinion, forward, and reverse gears for increased durability.

More power, cleaner emissions
The F70A derives every bit of power available from the fuel by using Vapour Reduction and Vapour Burning Systems. By eliminating vapour from the fuel rail and re-routing it back to the Vapour Separator Tank, only fuel is injected in the cylinders for better combustion and power. A fuel vapour valve prevents fuel vapours from escaping to the atmosphere when the outboard is not running, and re-routes fuel vapours through the intake when the outboard is running. This helps achieve maximum fuel efficiency and minimum emissions.
Protection from the elements
The new F70A features a new outer cowling design with an intake air drain system, to easily and efficiently drain away any water that enters the cowling during normal engine operation. Incoming air is routed through a labyrinth of passages that help trap and drain water before it enters the engine’s intake, for maximum reliability.

Quiet, yet strong
Yamaha’s F70A four-stroke outboard utilises a Long Span Mounting System, which uses large specially-constructed rubber engine mounts placed as far apart vertically and horizontally as practically possible. Smooth and quiet operation, yet with strength and durability, is the result.

Large water separator
All new F70A outboards feature a large, on-engine water separating fuel filter with a water sensor. Used in conjunction with Yamaha’s optional boat-mounted 10-Micron Water Separating Fuel Filter, it helps separate water and contaminants from the fuel before they can reach the outboard’s other filters and fuel injectors.

Dryer operation
Yamaha’s large anti-splash plate, standard on F70A models, helps keep water from splashing up between the leading edge of the outboard and the boat, resulting in a much dryer ride. Located on the front of the lower mid-section just above the lower unit, it excels in applications where the outboard is normally run deep in the water, such as pontoon boats.
**Precise trolling control**

By just pressing a button on the Digital Network gauge tachometer or the VTS™ switch on the optional Multifunction Tiller Handle, the operator can adjust the engine’s trolling speed from 620 - 900 rpm in 50-rpm increments. This helps provide precise and consistent trolling speeds in wide array of conditions.

---

**Optional Digital Network gauges offer a wealth of information to the operator in order to help provide efficient and effective operation. Available in square or round style to fit a wide range of tastes and applications.**

---

**Tiller handle convenience**

Yamaha’s award-winning optional Multi-function Tiller Handle offers the benefits demanded most in a tiller control. From its front-mounted gear shift and ignition key switch controls, to the easy-to-use Variable Trolling RPM Switch, it’s ergonomically-designed to provide maximum control with maximum comfort.

---

**Smooth and quiet**

Engine exhaust is routed through a maze before exiting above the waterline through the idle exhaust relief outlet for unbelievably smooth and quiet operation.
### Yamaha F70A Specifications and Features

#### Engine
- **Type**: 16-Valve, SOHC in-line four cylinder
- **Displacement**: 996cc
- **Bore x Stroke**: 65 x 75mm
- **Full Throttle RPM Range**: 5300 - 6300
- **Horsepower Rating**: 70hp at 5800 rpm at propshaft
- **Compression Ratio**: 9.4:1
- **Fuel Induction/Scavenging**: EFI/SOHC/4 valves per cylinder
- **Alternator Output**: 17 Amp
- **Starting Method**: Electric w/ PTT
- **Ignition**: TCI Microcomputer
- **Lubrication**: Wet Sump
- **Degree of Trim**: -4° through +16°
- **Degree of Tilt**: 65°
- **Exhaust**: Through Propeller
- **Cooling**: Water/Thermostatic Control

#### Drive
- **Gear Shift**: Forward, Neutral, Reverse
- **Gear Ratio**: 12:28 (2.33)

#### Shaft Length
- **See Model Code**: L = 20”    X = 25”

#### Fuel and Lubrication
- **Recommended Fuel**: Regular Unleaded
- **Recommended Fuel (Minimum Pump Octane)**: 87
- **Ethanol Blend Limit**: 10% Maximum
- **Recommended Oil**: Yamalube® 4 10w-30
  - (See owner’s manual)
- **Engine Oil Capacity**: 2.1L

#### Power/Performance
- **Lightweight SOHC, 16-Valve Design**
- **Powerful 4 Cylinder**
- **Multi-Point Precision Fuel Injection**
- **Long Track Induction System**
- **Blow-By Gas Reburning System**
- **Fuel Vapor Burning System**
- **Ultra Low Emissions 3 Star Rating**

#### Reliability/Durability
- **Single Throttle Valve**
- **TCI Microcomputer**
- **Sacrificial Anodes**
- **YDC 30 Aluminium Alloy**
- **ACP 221 Paint Process**
- **Electro-deposited Powerhead Paint Process**
- **Engine Warning System**
- **Wet Sump Lubrication**
- **High Output Alternator**
- **On-Engine Fuel/Water Separating Filter**
- **Water Draining Air Intake Duct**
- **Engine Warning System**
- **SST Drive, Prop, Shift Shafts**
- **Magnetic Drain Plug**

#### Convenience/Control
- **Digital Network System**
- **Power Trim & Tilt**
- **Freshwater Flush**
- **External Tilt Switch**
- **Spin On Oil Filter**
- **Long Span Mounting System**
- **Labyrinth Exhaust**
- **Yamaha Diagnostic System**

---

This document contains many of Yamaha’s valuable trademarks. It may also contain trademarks belonging to other companies. Any references to other companies or their products are for identification purposes only, and are not intended to be an endorsement. Due to Yamaha’s ongoing commitment to product improvement, we reserve the right to change without notice, equipment, materials, or specifications. The information and data contained herein is approximate and subject to many factors and variables, including but not limited to atmospheric, water, and equipment conditions, and operator ability. Therefore, such information and data is provided as a guideline only. Consult appropriate Yamaha rigging information for complete rigging compatibility and requirements information for particular configurations.


---

NEW

**F70A**

four-stroke