



Honda BF90 EFI Engine
Technical Specifications

ENGINE

TYPE	4-Stroke In-line 4-Cylinder
DISPLACEMENT	1496cc (91.4 cubic in)
BORE & STROKE	73 x 89.4 mm
RECOMMENDED RPM RANGE	5300-6300 RPM
HP RATING AT PROPSHAFT	90HP (67.05Kw) @5800RPM
VALVE TRAIN	SOHC VTEC™
VALVES PER CYLINDER	4
FUEL DELIVERY	Programmed Electronic Fuel Injection (PGM-FI)
IGNITION SYSTEM	Microcomputer Programmed
STARTING SYSTEM	Electric
LUBRICATION	Wet Sump
COOLING SYSTEM	Water Cooled
ALTERNATOR	44 Amp (546 watts) Max
BATTERY CHARGING POWER	35 Amp (433 watts) Continuous
TRIM RANGE	-4° to +16°
TILT RANGE	68°

DRIVE

GEAR RATIO	2.33:1 (12/28)
GEAR SHIFT	F-N-R
PROPELLER	Optional

DIMENSIONS

RECOMMENDED TRANSOM	(L) 508 mm/20 in
DRY WEIGHT 20"	163 kg – 359 lbs

Honda Marine BF75/BF90 EFI Outboards

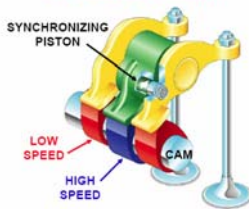
All of the following are **Exclusive HONDA Features**:



Advanced ignition timing throughout the entire rpm range, resulting in improved low end acceleration and explosive hole shots.

VTEC

Variable Valve Timing & Lift Electronic Control



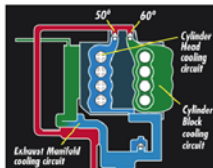
Utilizes mild cam lobes to operate the intake valves at low rpm and engages a high output cam lobe at high rpm resulting in improved mid-range throttle response and outstanding torque, power and fuel efficiency at any speed (*available on BF90 only*)

Lean Burn Control



Lean Burn Control uses an oxygen (O_2) sensor to automatically adjust the air/fuel mixture according to speed and load while maximizing power throughout the acceleration range, providing up to 20% better fuel economy (over the current model) in cruise mode from 2500 to 4000 RPM.

3 WAY COOLING SYSTEM



3-Way Cooling System reduces engine heat by allowing the cylinder head to run slightly cooler than the engine block, greatly reducing engine wear and maximizing engine power.

44-amp Flywheel (magneto) Alternator - utilizes small neodymium magnets in the flywheel housing, contributing to the unit's light weight and keeps the starting and dual-purpose battery banks charged all day, even if the vessel is running multiple accessories. The system reduces heat build-up and provides 35 Amps of superior battery charging capability.

4-Front Corrosion Protection - uses a patented multi-layer paint process in addition to sacrificial anodes to fight off corrosion from harsh marine environments

General BF75/BF90 Technical Specifications

Top Mounted Electronics are standard features on both engines. The alternator, ignition and other critical components are mounted near the top of the powerhead to ensure all are kept cool and dry.

The BF90 and BF75 boast an **Engine Alert System** that uses visual, audio and rpm reduction circuits to alert the operator of conditions which contribute to engine damage, such as overheating, low oil pressure and over-revving.

A **Fresh Water Flushport** works to flush debris and salt water out of the engine, and the patented **4-Front Corrosion Protection System** features a double sealed multi-layered paint process; both features extend the life of the outboards.

A **Built-In Pitot Tube** in the gear case eliminates the need to drill holes during installation, and an **Adjustable-Angle Tiller Handle (BF90)** offers convenient and accurate steering.

Specifications			
Engine Type	4-Stroke SOHC In-Line 4-Cylinder	Cooling System	Water Cooled
Displacement	1496cc (91.4 cubic in.)	Alternator	44 Amp Max
Bore & Stroke	73 x 89.4 mm	Battery Charging	35 Amp Continuous
Full Throttle (90) Full Throttle (75)	5300-6300 RPM 4500-5500 RPM	Trim Range	-4° to +16°
HP Rating @ Propshaft	75HP @ 5000 RPM 90HP @ 5800 RPM	Tilt Range	68°
Induction Scavenging	SOHC	Gear Ratio	2.33:1 (12/28)
Valves/Cylinder	4	Gear Shift	F-N-R
Fuel Delivery	Programmed Electronic Fuel Injection (PGM-FI)	Propeller	Optional
Ignition System	MicroComputer Programmed	Recommended Transom Height	(L) 508mm/20 in.
Starting System	Electric	Dry Weight 20"	163kg – 359 lbs.
Lubrication	Wet Sump	* Specifications subject to change without notice. Check www.hondanews.com for updates	