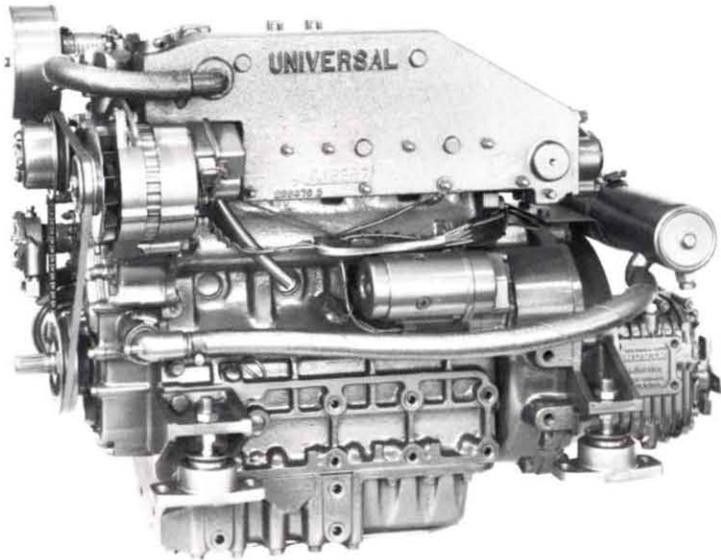
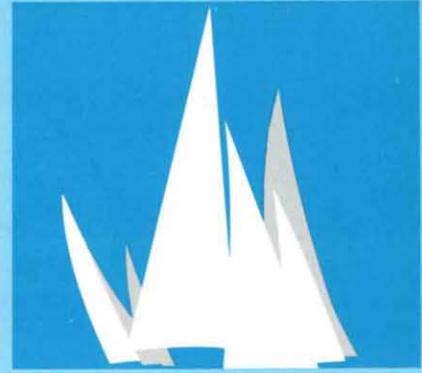


# Universal

## DIESEL MARINE ENGINES



When Mother Nature takes the wind out of your sails, nothing will put it back like a Universal Diesel. Smoothly. Dependably. With the right combination of high torque and low R.P.M. to get you where you want to go . . . quiet as the wind.

With a choice of seven models ranging from 18 to 44 horsepower, there's a lightweight, compact Universal Diesel engine that's exactly the right size for your boat.

### Features

**CYLINDER BLOCK:** Spherical graphite cast iron for maximum vibration dampening.

**CYLINDER HEAD:** Marine chrome nickel alloy iron with spherical combustion chamber for smooth running and clean exhaust.

**CRANKSHAFT:** High grade steel, statically and dynamically balanced. Drilled for pressure lubrication.

**OIL PAN:** Stamped steel, detachable for inspection purposes.

**COOLING SYSTEM:** Closed fresh water heat exchanger.

**FUEL SYSTEM:** Bosch fuel injection system. Fuel filter with replaceable element and E-Z bleed.

**LUBRICATION:** Full pressure lubrication with full flow spin-on oil filter.

**TRANSMISSION:** Drop center gear with helical gears and a mechanical friction clutch permit free wheeling of the propeller with no effect on the gear. Standard reduction ratio of 1.8:1. Lubricated separately from the engine.

**FLEXIBLE MOUNTS:** Engine equipped with four point adjustable mounting for ease of installation and minimum vibration.

**ELECTRICAL SYSTEM:** 12 volt system standard. Marine type 51 Amp alternator with transistorized regulator, electric starter with solenoid for remote starting.

**GLOW PLUGS:** For easy starting year around.

### Standard Equipment

Fresh water cooling, sea water pump, alternator, flex mounts, lifting eye, Hurth reduction transmission, electric fuel pump, fuel filter, lube oil filter, glow plugs, E-Z bleed fuel system, hand sump pump - oil, prewired engine, battery charging alternator, coolant recovery tank, control brackets - fuel - shift - stop, lube oil drain hose, operator's manual and parts list.

### Propeller Rotation

Right hand propeller.

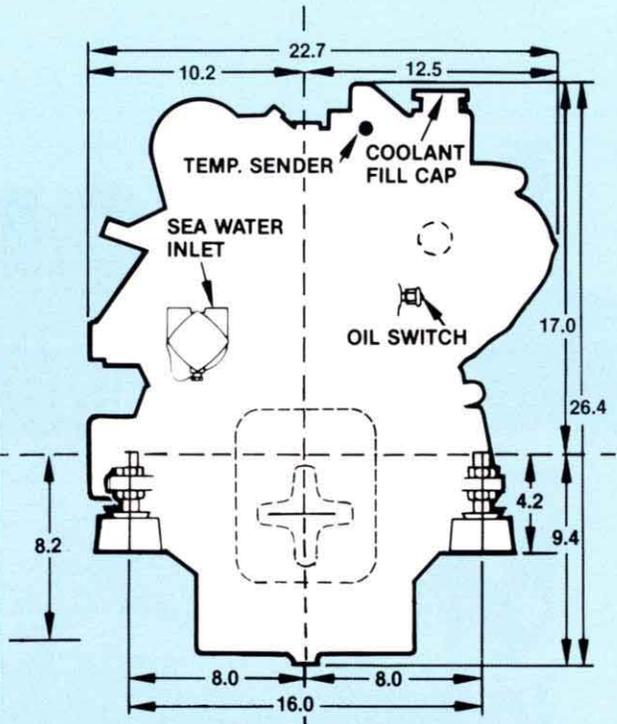
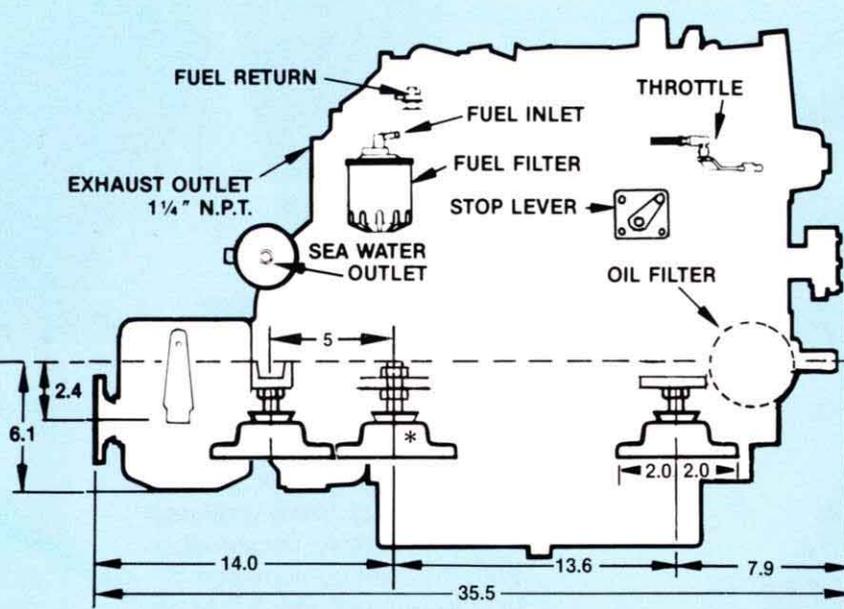
### Optional

On-board spare parts kit. Instrument panels. Flexible coupling. E-Z Align V-Drive gear. Remote expansion tank. Exhaust connection (90°, 45° elbows and riser). Anti-siphon valve. Technical manual. Other gear ratios. 72 amp, 12 volt alternator.

## Universal Motors

THE LEADER IN MARINE POWER SINCE 1898

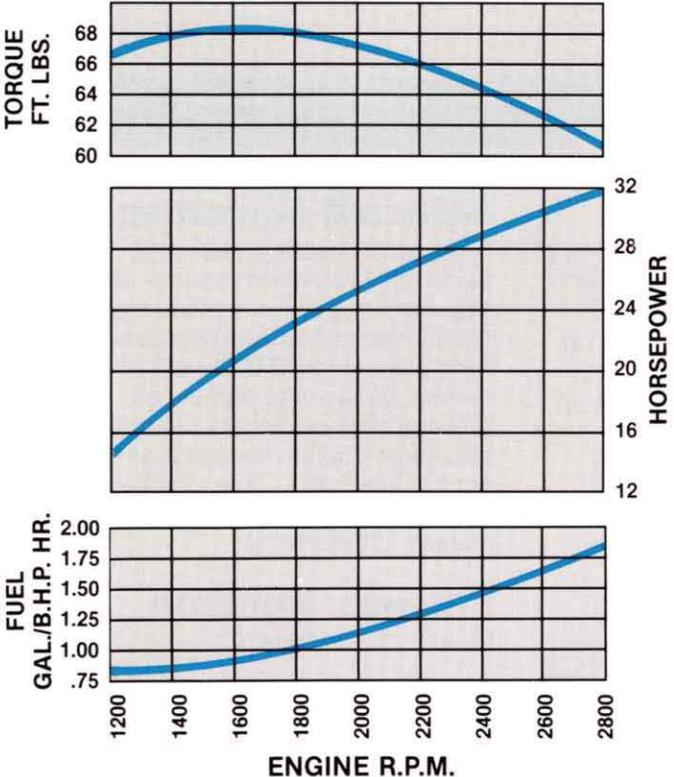
# M-40A installation dimensions



\* Optional rear mounts.

## specifications

Engine Type . . . . . 4 cycle  
 Number of Cylinders . . . . . 4-Vertical  
 Displacement . . . . . 91 Cu. In.  
 Bore . . . . . 3 In. . . . . Stroke . . . . . 3.25 In.  
 Starter . . . . . 12 Volt  
 H.P./KW . . . . . 32 @ 2800 RPM/23.8  
 Alternator . . . . . 12 Volt 51 Amp  
 Maximum Installation Angle . . . . . 15°  
 Engine Weight . . . . . 545 Lbs.  
 Propeller Rotation . . . . . Right Hand



Note: Propeller load will decrease fuel consumption rate.



- Captain Instrument Panel with indicating lights and 15' wiring harness
- Admiral Instrument Panel with oil pressure and water temperature gauges, battery charge rate voltmeter, 15' wiring harness

- Both panels include high water temperature and low oil pressure alarms

## Universal Motors

Westerbeke Corporation  
 Avon Industrial Park • Avon, MA 02322  
 TEL. (508) 588-7700 FAX (508) 559-9323

Specifications may change without notice.