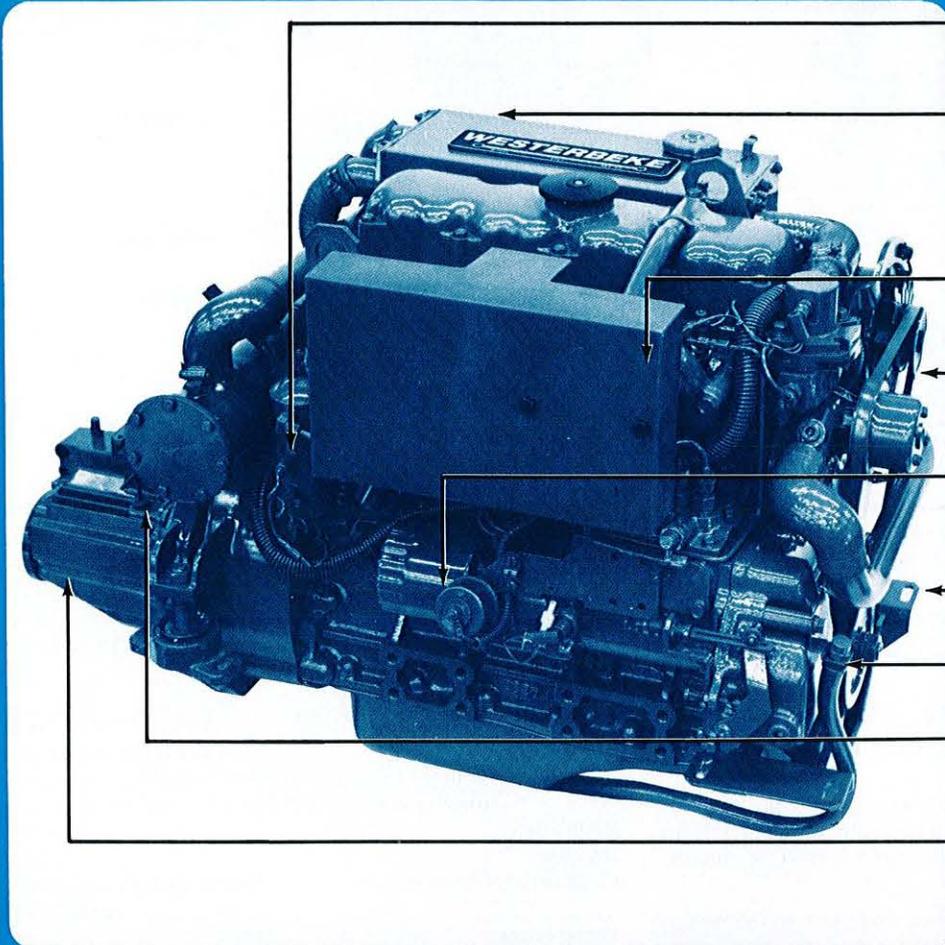


# WESTERBEKE

smooth quiet efficient power  
in a rugged 33 hp marine diesel

# 33



SELF-BLEEDING FUEL SYSTEM

FRESH WATER COOLED TWO PASS ALUMINUM MANIFOLD THAT INCLUDES A REMOTE COOLANT RECOVERY TANK FOR CONTINUOUS MONITORING OF THE COOLING SYSTEM

TUNED AIR INTAKE SILENCER

12 VOLT 50 AMP ALTERNATOR

SPIN ON OIL FILTER

ADJUSTABLE FLEX ISOLATOR ENGINE MOUNTS 15" ON CENTER

OIL DRAIN HOSE

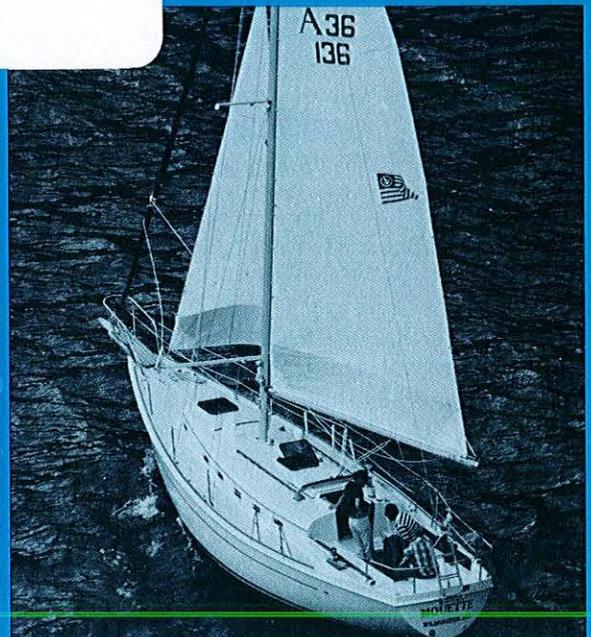
HEAT EXCHANGER W/ REMOVABLE END CAPS

SHORT PROFILE TRANSMISSION

## A NEW GENERATION OF MARINE ENGINES

The Westerbeke 33 provides 4 cylinder, four cycle smoothness in a lightweight, compact engine. Cylinder head and block are of cast iron for strength and long life while aluminum is used in non-wearing parts for lightweight. The performance from this 91 cubic inch engine will amaze you. Standard equipment not usually found on engines this size include *Fresh Water Cooling, 12 Volt 50 Amp Alternator, Prewired Electrical System, Self-Bleeding Fuel System* and a convenient *Oil Drain System* to eliminate messy oil changes.

The Westerbeke 33 is the most powerful of the series 15 (narrow mounts) in the Westerbeke family of marine diesels. Ten additional engines are available from 13 to 120 hp all fresh water cooled and built for performance, durability and economical operation . . . A true family of marine engines with standardized features and commonized parts for higher quality at lower costs.



"Princess 36" by Allied Yachts

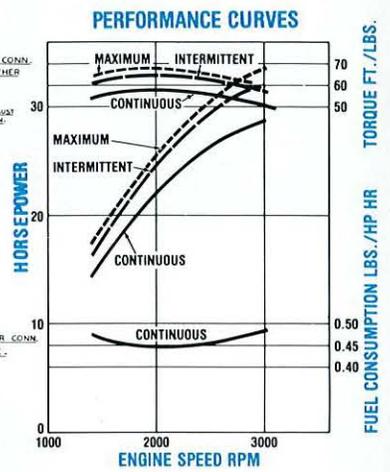
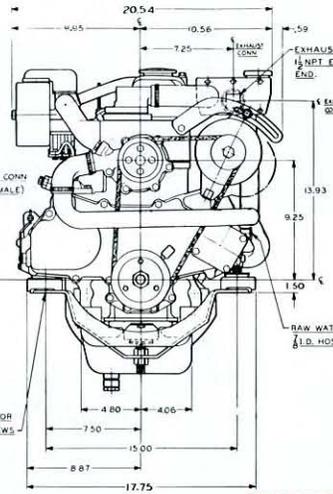
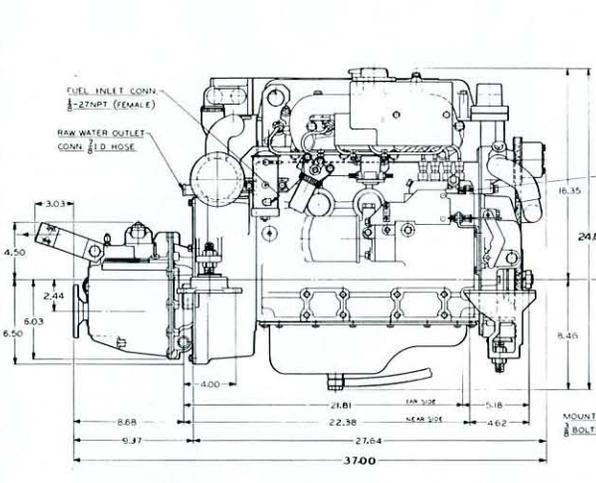


ENGINES: 13, 21, 27, 30, 33, 40, 50, 52, 58, 70, 80, 100, 120

Fresh Water Cooled Diesels from Westerbeke.

# A COMPACT FOUR CYLINDER FOUR CYCLE MARINE ENGINE

**WESTERBEKE 33**



## PERFORMANCE DATA

- Maximum Power Output . . . . . 33/3000 RPM
- Typical Fuel Consumption Rate . . . . . .063US gal/HP/hr
- Typical Fuel Consumption Rate at 2500 RPM
- When Wheeled to Turn 3000 RPM . . . . . 1.2US gal/hr
- Capacity of Lubricant . . . . . 4.2 Qts
- Capacity of Coolant . . . . . 8 Qts

## SPECIFICATIONS

- Model Number . . . . . Westerbeke 33
- Engine Type . . . . . 4 cycle, water cooled, naturally aspirated, vertical overhead valve, diesel engine
- Cylinder arrangement . . . . . 4 cylinders in line
- Bore & Stroke . . . . . 3.07"x3.07" (78mm.x78mm.)
- Displacement . . . . . .91 cubic inch (1.490 litre)
- Compression ratio . . . . . 23 to 1
- No. of main bearings . . . . . .5
- Rotation . . . . . SAE Std. (clockwise facing front end)
- Fuel Injection Pump . . . . . Bosch Distributor Type Individual plunger for each cylinder, cam driven in a precision housing machined in block for rigidity and accuracy.
- Regulator . . . . . IC (built in type)
- Injectors . . . . . Pintle type
- Combustion Chamber . . . . . Swirl type for easy starting and quiet operation
- Firing order . . . . . 1-3-4-2
- Governor . . . . . Mechanical centrifugal type
- Fuel filter . . . . . Paper element type
- Lubricating device . . . . . Forced lubrication by trochoid pump
- Lab. oil filter . . . . . Full flow, spin on, paper element type
- Starting motor . . . . . Geared electric motor, 12 Volt.
- Starting aid . . . . . 12 Volt sheathed type glow plug
- Fuel pump . . . . . Electric plunger type
- Dry weight of engine (w/trans.) . . . . . 498 lbs.
- Power take-off . . . . . Various crankshaft pulleys

**QUALITY CONSTRUCTION** — fresh water cooling with thermo-static controls, 50 amp alternator with radio shielding, metallic water piping wherever possible for endurance, cog-type alternator belts reduce slippage, glow plug cold weather starting aid, oversized 3" diameter heat exchanger, shut-off function built into throttle control, cast iron head and block for long life.

**PARTS SUPPLY** — nationwide stock of parts for Westerbeke engines and generators means better service from an expanding network of stocking distributors and dealers.

**EXCEPTIONAL SMOOTHNESS** — 4 cylinder 4 cycle engine, high inertia flywheel, vibration isolating mounts.

**SELF BLEEDING FUEL SYSTEM** — Restarts after running out of fuel without manual air bleeding.

**VERY LIGHT WEIGHT** — aluminum water-cooled two pass exhaust manifold and flywheel housing, save weight without sacrificing cast iron head and block.

**EASE OF MAINTENANCE** — removable end caps on heat exchanger for easy clean out, convenient oil drain system needs no hand pump, all wiring is led to a single 8-pin connector; heavy duty zinc anodes for heat exchanger.

**EXCEPTIONAL QUIETNESS** — custom designed, tuned intake silencer reduces intake air noise; modern swirl type combustion chamber design softens diesel clatter.

## STANDARD EQUIPMENT

- Short profile 2-1 manual transmission • Propeller half coupling
- Adjustable flex isolator engine mounts (15" on centre)
- Fresh water cooling system • Coolant recovery tank
- 12 volt 50 ampere alternator • Glow plug cold weather starting aid
- Throttle, stop, and shift control brackets • Operators manual
- Engine pre-wired at the factory with a single 8 pin connector

## OPTIONAL EQUIPMENT

- Various accessory front pulleys
- Walter Injected Exhaust Elbow
- Hydro-Hush Muffler
- Sea Water Strainer
- Alternator Output Splitter
- Five function Electric Instrument Panel including Hour Meter and Tachometer
- Various optional transmissions
- Front exhaust outlet for Vee Drive applications



**CALL YOUR WESTERBEKE REPRESENTATIVE**

OR CONTACT THE . . .

**J. H. WESTERBEKE CORP.**



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