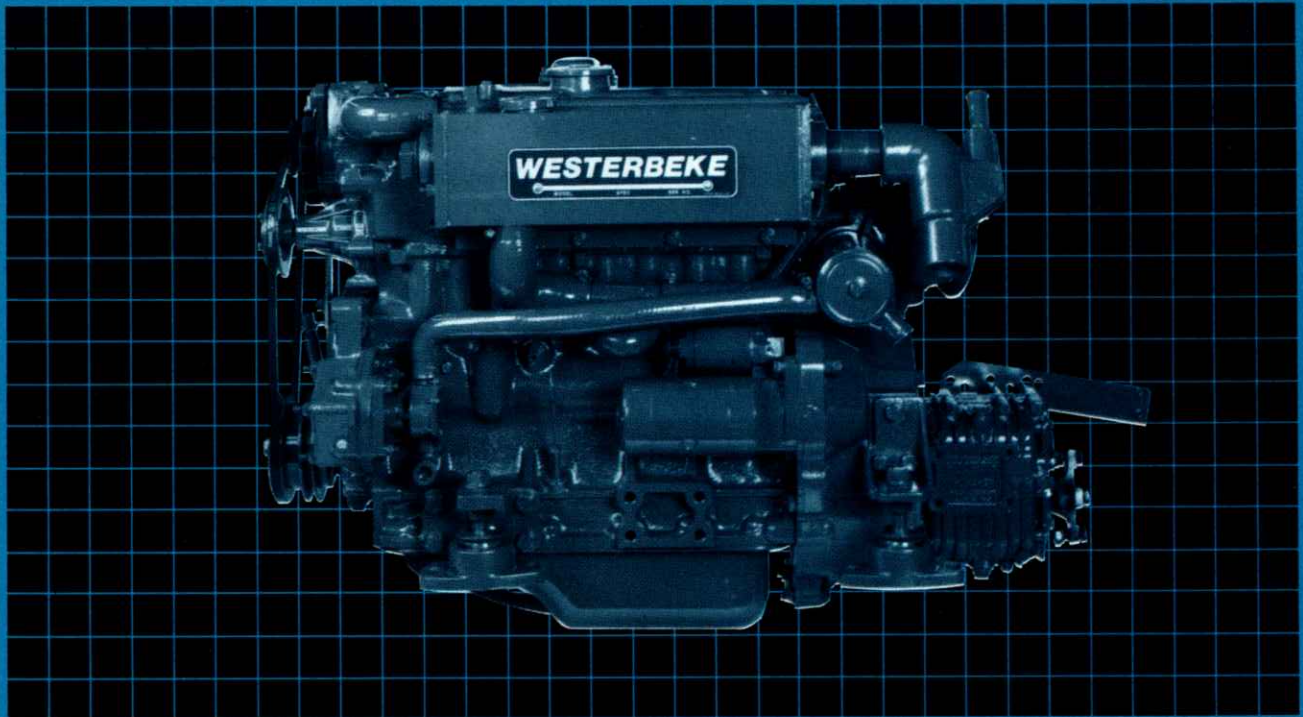


# WESTERBEKE 33a

smooth quiet efficient  
power in a compact 33 hp  
marine diesel engine



Courtesy of Sabre Yachts

## FEATURES:

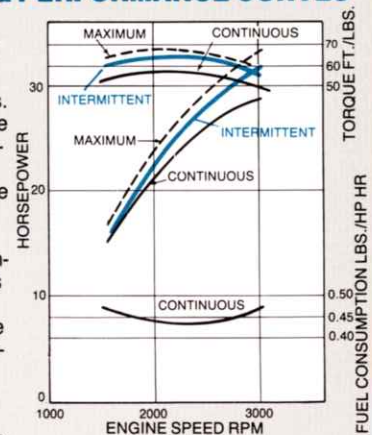
- Electric fuel lift pump
- Gear driven sea water pump
- Very compact. Only 24.8" high
- Width is a narrow 18.7"
- Flywheel housing tapered for tight fits
- 16" or 18" mounting width
- Front or rear exhaust outlets

## WESTERBEKE 33a PERFORMANCE CURVES

At Westerbeke we have always maintained a conservative policy in rating our marine engines. We have supported these figures by accurate technical graphs.

We recommend, before purchasing any engine, that you evaluate and compare the various manufacturers' power charts as they relate to horsepower, particularly in the R.P.M.s in which you expect to operate.

The Westerbeke 33a with 91 cubic inch displacement, develops useable horsepower of **24 hp @ 2000 RPM** and **31 hp @ 3000 RPM**. Remember, displacement and horsepower are proportional!



## INSTALLATION COMPARISON CHART

In Inches and Lbs. \*W/Transmission

Engine Model	displ.	*length	height	width	*weight
UNIVERSAL 40	91 C.I.	36.6	26.0	20.3	490
YANMAR 4JHE	100 C.I.	35.0	25.9	22.1	516
WESTERBEKE 33a	91 C.I.	34.6	24.8	18.2	480

Your enjoyment and pride of ownership is assured with a Westerbeke 33a in your boat.

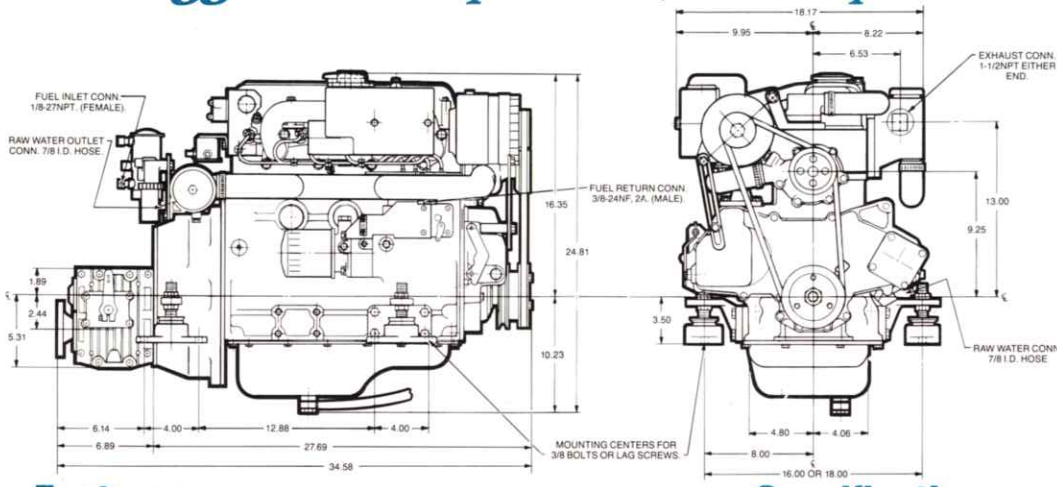


**ENGINES: 10, 13a, 18, 21a, 27a, 33a, 46, 52, 58, 70, 100, 120**

**Fresh Water Cooled Diesels from Westerbeke**

# A rugged four cylinder, four cycle marine engine

**WESTERBEKE 33a**



## DELUXE MULTI-FUNCTION ELECTRIC INSTRUMENT PANEL

Includes hour meter, tachometer, water temperature and oil pressure gauges, battery voltmeter, key switch, preheat and start buttons, 15' connector, engine to instrument panel.

### Features

- **Quality Construction** — fresh water cooling with thermostatic 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, over-sized 3" diameter heat exchanger.
- **Parts Supply** — nationwide stock of parts for Westerbeke engines and generators means better service from an expanding network of stocking distributors and dealers.
- **Self Bleeding Fuel System** — restarts after running out of fuel without manual air bleeding.
- **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

- Alarm, low pressure, high water temperature
- Short profile 2-1 manual transmission
- Adjustable flex isolator engine mounts
- 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
- Water injected exhaust elbow
- Flowcontroller—for easy connection of domestic hot water heater

### Optional Equipment

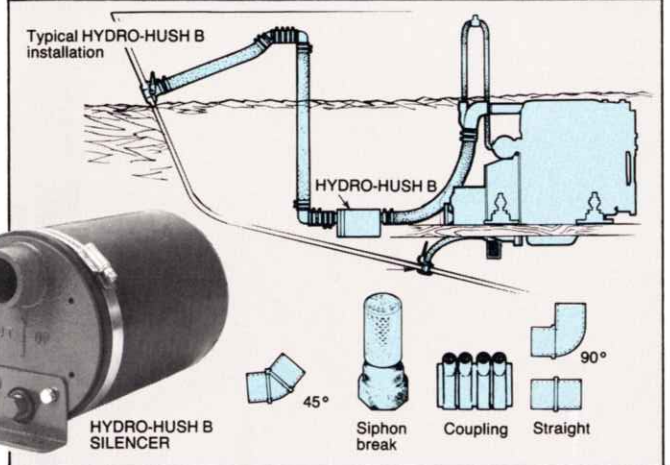
- Various accessory front pulleys
- Hydro-Hush Muffler
- Sea Water Strainer
- Alternator Output Splitter
- Various optional transmissions
- Front exhaust outlet for Vee Drive applications

### 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 33a  
 Engine Type . . . . . 4 cycle, water cooled, naturally aspirated, vertical overhead valve, diesel engine  
 Cylinder arrangement . . . . . 4 cylinders in line  
 Bore & Stroke . . . . . 3.07" x 3.07" (78mm. x 78mm.)  
 Displacement . . . . . .91 cubic inch (1.490 litre)  
 Compression ratio . . . . . 23 to 1  
 No. of main bearings . . . . . 5  
 Fuel Injection Pump . . . . . Bosch type with individual plungers  
 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  
 Lub. 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.) . . . . . 480  
 Power take-off . . . . . Various crankshaft pulleys  
 Propeller Rotation . . . . . Right hand



Call your Westerbeke representative