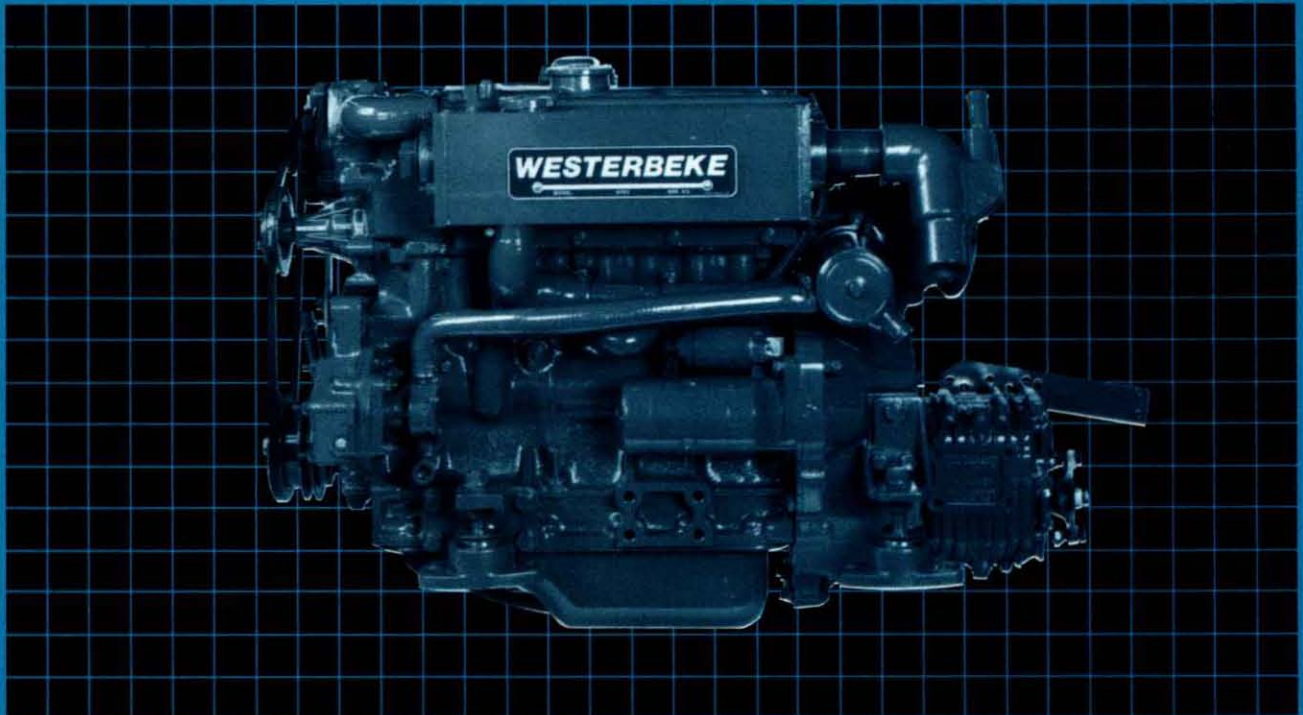


WESTERBEKE 33a

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



Courtesy of Sabre Yachts

FEATURES:

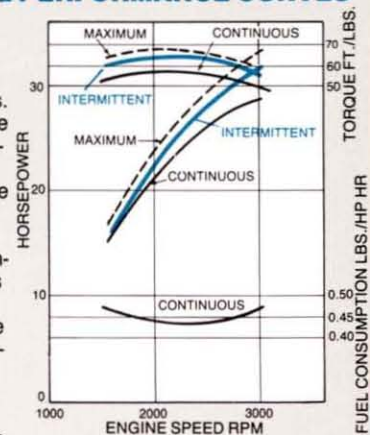
- Electric fuel lift pump
- Gear driven sea water pump
- Very compact. Only 24.8" high
- Width is a narrow 18.7"
- Flywheel housing tapered for tight fits
- 16" or 18" mounting width
- Front or rear exhaust outlets

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.

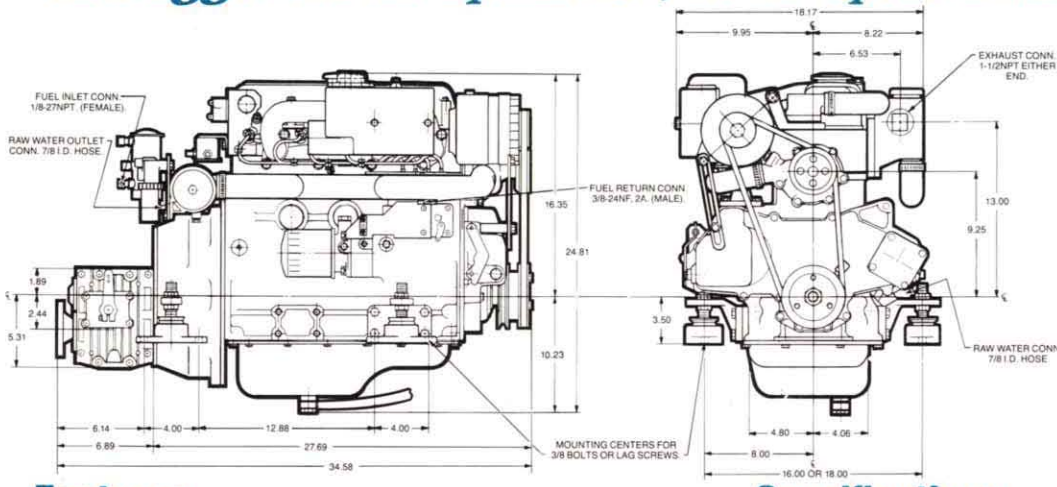


ENGINES: 10, 13a, 18, 21a, 27a, 33a, 46, 52, 58, 70, 100, 120

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

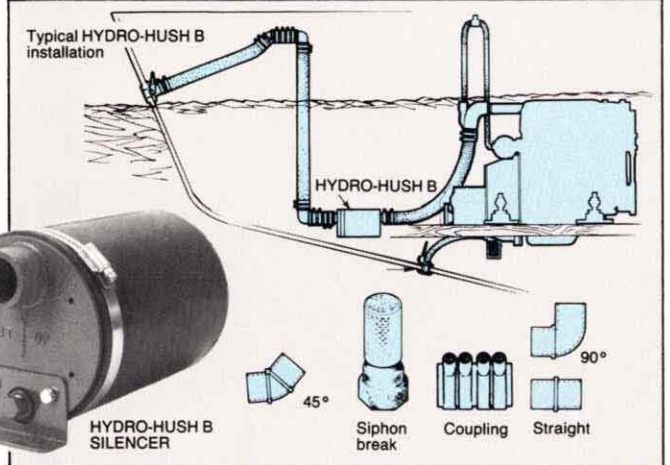
- Various accessory front pulleys
- Hydro-Hush Muffler
- Sea Water Strainer
- Alternator Output Splitter
- Various optional transmissions
- Front exhaust outlet for Vee Drive applications

Performance Data

Maximum Power Output 33/3000 RPM
 Typical Fuel Consumption Rate063US 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.)
 Displacement91 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



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Call your Westerbeke representative