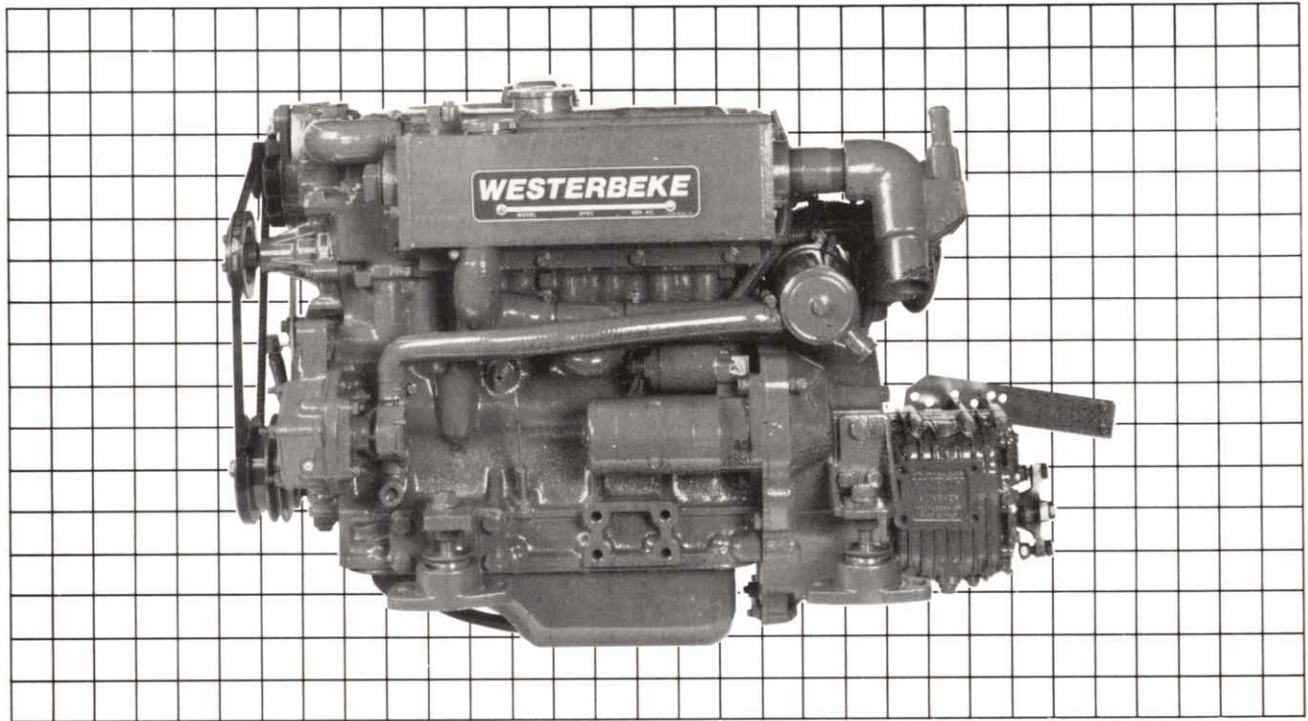


WESTERBEKE 33a

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



Courtesy of C/S Yachts

FEATURES:

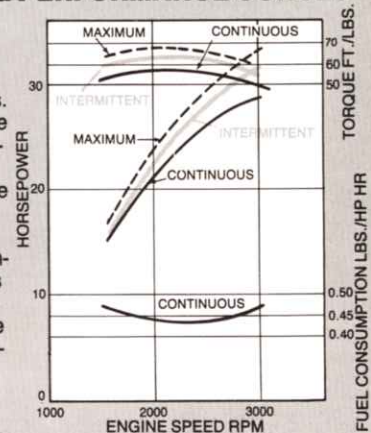
- Electric fuel lift pump
- Gear driven sea water pump
- Very compact. Only 24.8" high
- Width is a narrow 18.7"
- Flywheel housing tapered for tight fits
- 16" or 18" mounting width
- Front or rear exhaust outlets

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

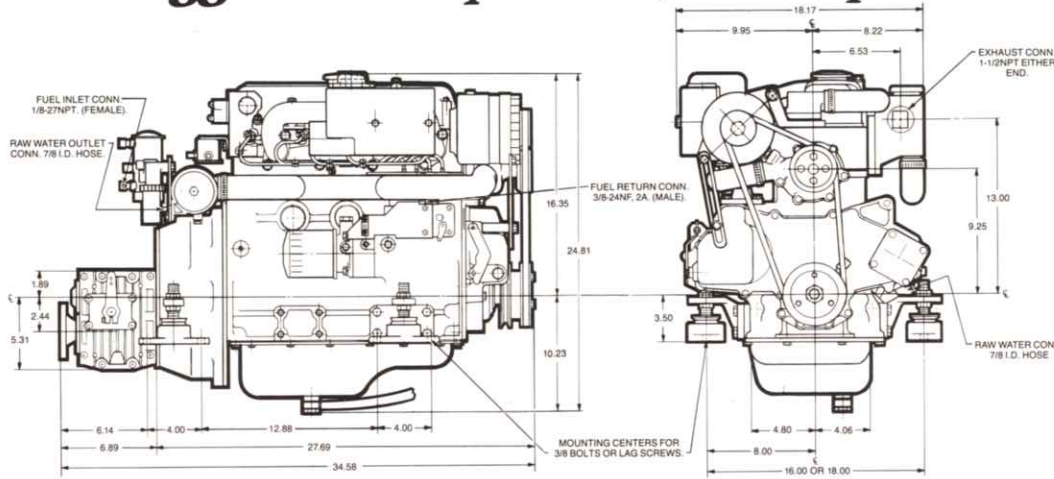
Your enjoyment and pride of ownership is assured with a Westerbeke 33a in your boat.



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



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 Only** — 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

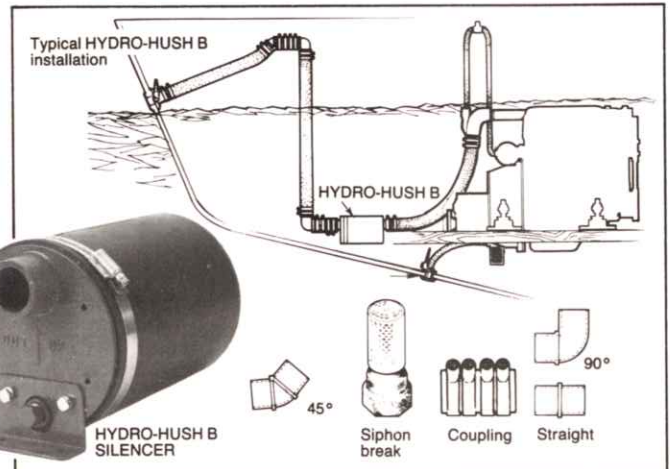
- Various accessory front pulleys
- Hydro-Hush Muffler
- Sea Water Strainer
- Alternator Output Splitter
- Various optional transmissions
- Front exhaust outlet for Vee Drive applications

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.
 Dry weight of engine (w/trans.)..... 480
 Power take-off..... Various crankshaft pulleys
 Propeller Rotation..... Right hand



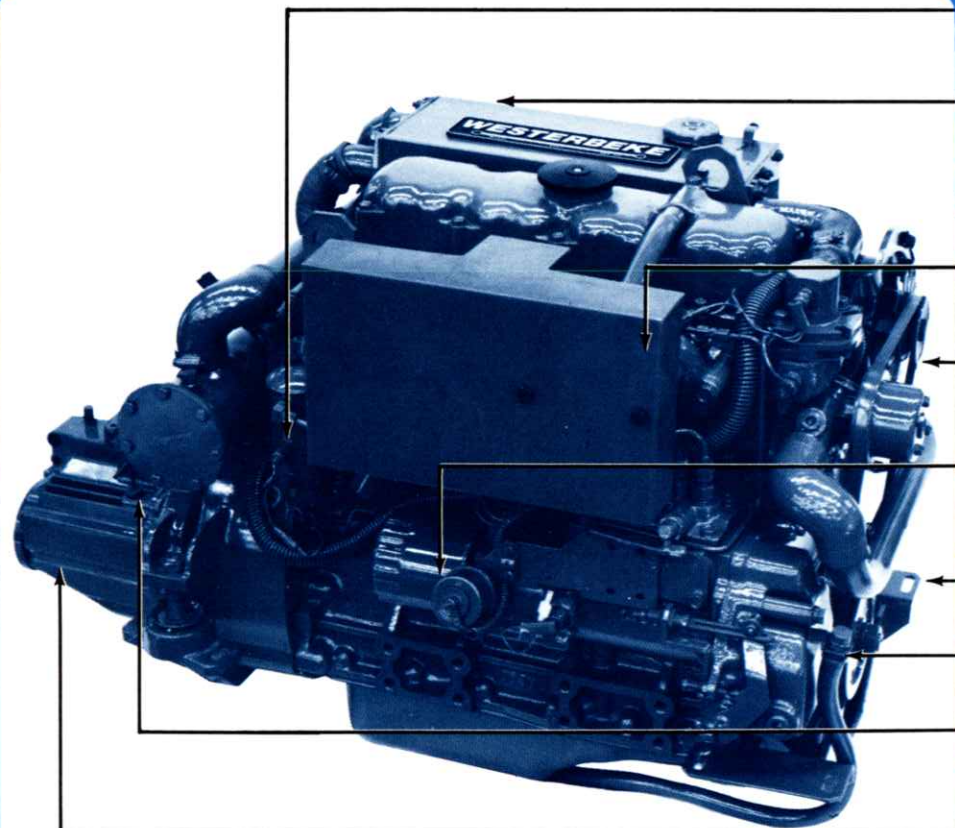
Call your Westerbeke representative

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 CABLE: WESTCORP, AVON • TELEX: 92-4444

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

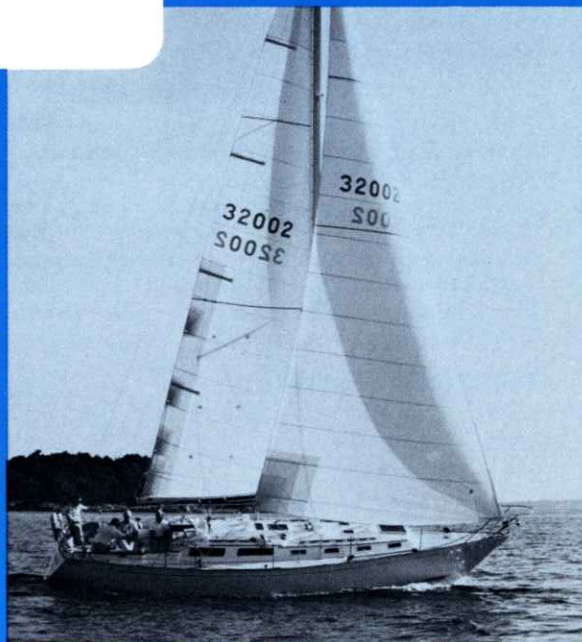
HEAT EXCHANGER W/ REMOVABLE END CAPS

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. Eleven additional engines are available from 10 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.



"SABRE 38" by Sabre Yachts

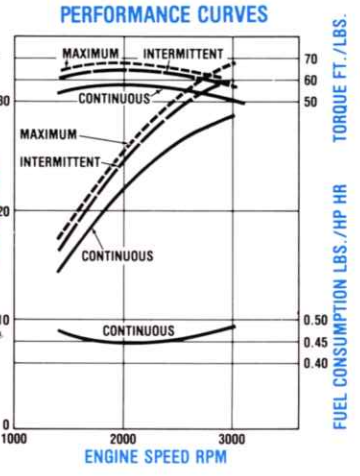
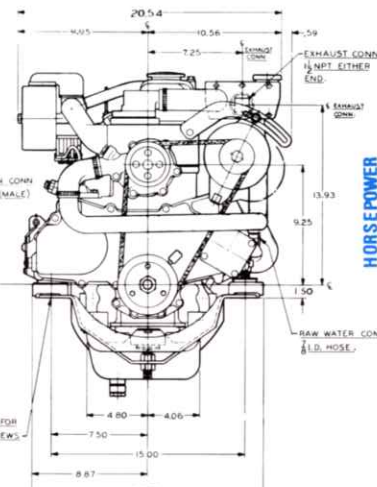
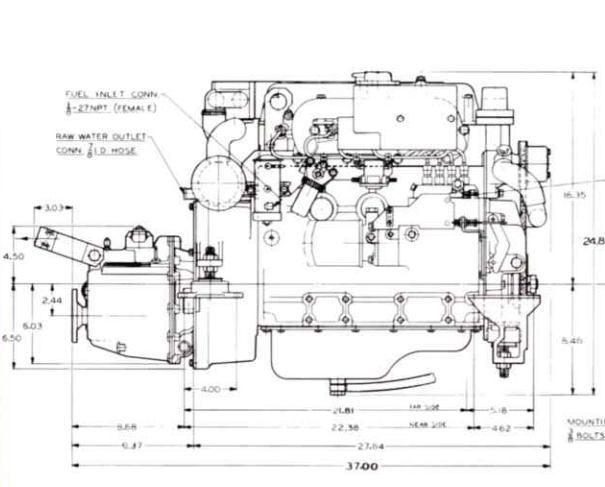


ENGINES: 10.2, 13, 21, 27, 33, 46, 52, 58, 70, 80, 100, 120

Fresh Water Cooled Diesels from Westerbeke.

A COMPACT FOUR CYLINDER FOUR CYCLE MARINE ENGINE

WESTERBEKE 33



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, 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

- Alarm, low oil pressure, high water temperature
- Short profile 2-1 manual transmission
- 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
- 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
- Five function Electric Instrument Panel including Hour Meter and Tachometer
- 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 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.)
- Displacement91 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
- 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.) 498 lbs.
- Power take-off Various crankshaft pulleys

CALL YOUR WESTERBEKE REPRESENTATIVE

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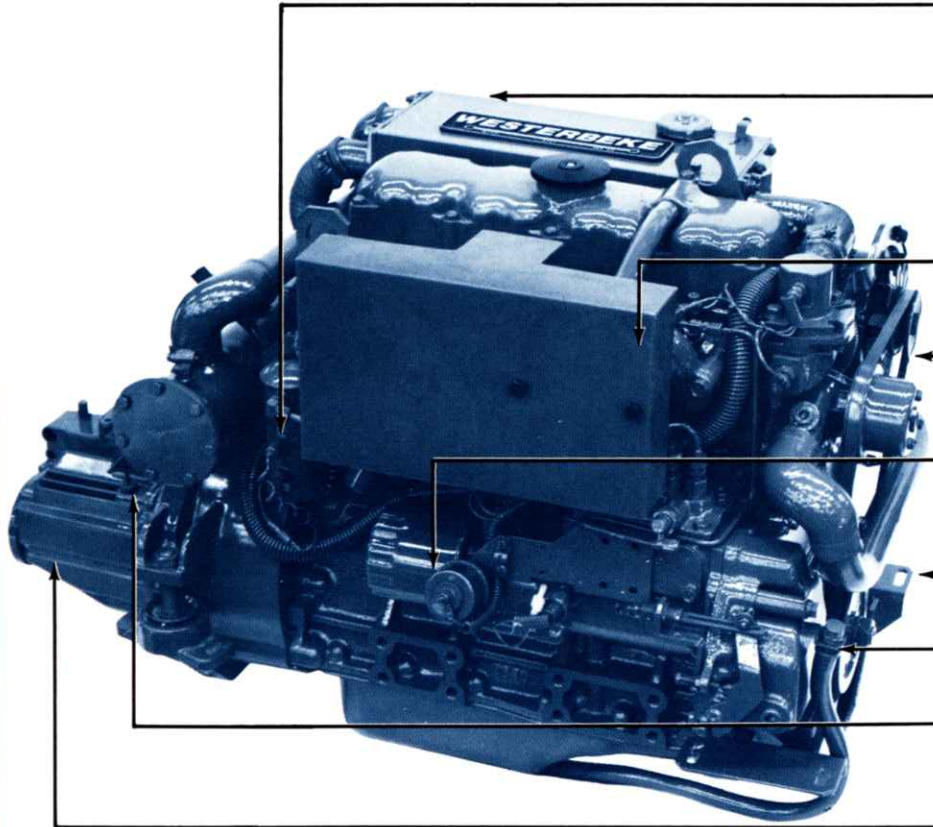
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Cable: Westcorp, Avon, Telex: 92-4444

WESTERBEKE

smooth quiet efficient power
in a rugged 33 hp marine diesel

33



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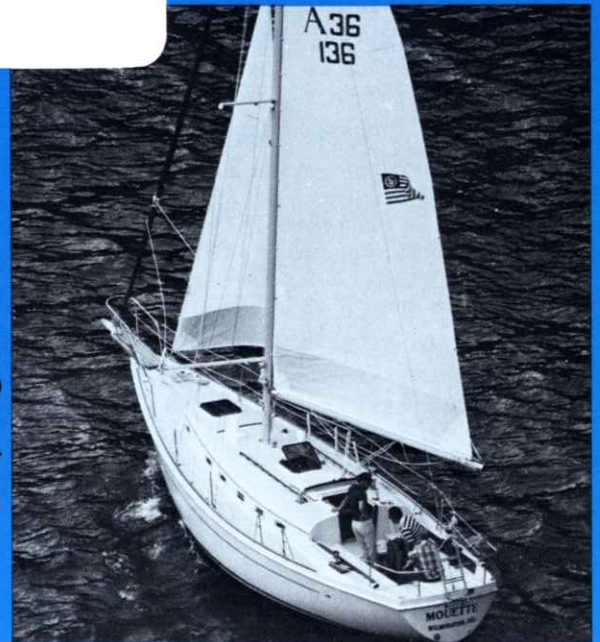
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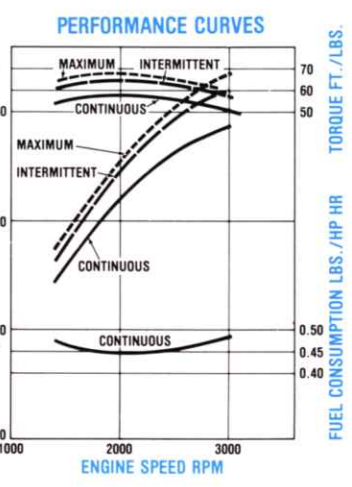
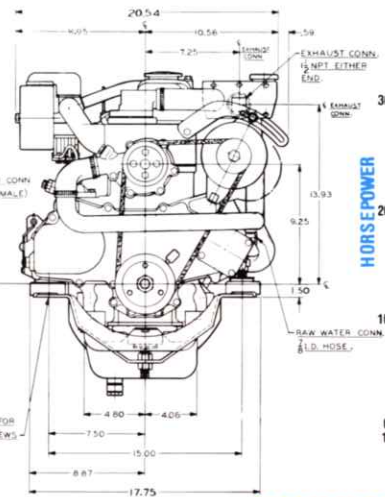
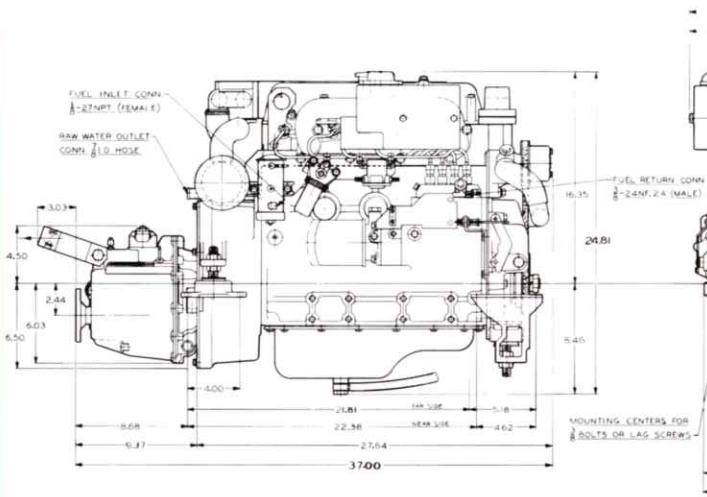
"Princess 36" by Allied Yachts

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

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A COMPACT FOUR CYLINDER FOUR CYCLE MARINE ENGINE

WESTERBEKE 33



PERFORMANCE DATA

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- 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

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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



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