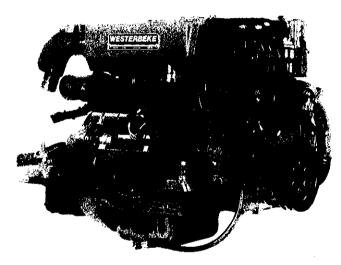
THE PERFECT POWER SOLUTION For Auxiliary Sailboats in the 50' Class



The New Westerbeke MODEL 82B FOUR MARINE DIESEL ENGINE

IMPORTANT FEATURES ARE:

- FOUR OPTIONAL HIGH OUTPUT ALTER-NATORS TO SELECT FROM. UP TO 190 AMPERES — ALL WITH DUAL BELT DRIVE.
- OPTIONAL PROVISION FOR A TOP MOUNTED, ROTARY, REFRIGERATION COMPRESSOR WITH DUAL BELT DRIVE.
- **BELF BLEEDING FUEL SYSTEM.**
- **ONE SIDE SERVICING.**
- OVERSIZED HEAT EXCHANGER.

- STANDARD TRANSMISSION WITH OIL COOLER.
- NATURALLY ASPIRATED FOR EXTRA LOW-END POWER, SIMPLICITY AND RELIABILITY.
- LOW PROFILE, NARROW AND LIGHT WEIGHT.
- CAPTIVE OVERSIZED VIBRATION MOUNTS.
- ELECTRIC ENGINE STOP.



Designed to meet the needs of the quality builder and the discerning yachtsman

(NY) WESTERBEKE

NEW FOR 1991 --- WESTERBEKE'S MODEL 82B FOUR DIESEL ENGINE

Having introduced the first small diesel engine for use in Auxiliary Sailboats in the late Fifties, Westerbeke's goal has been to design dependable products with the important standard and optional features needed by the customers. The new Model 82B Four is representative of that effort. Here's why:

• OVERSIZED COMPONENTS •

The transmission, heat exchanger and engine vibration mounts are all oversized for high reliability.

SUPERIOR ENGINEERING

The engine mounts are of the fail-safe type with the engine mounting bolt held captive so it cannot pull apart. Because of the heavier loads, a two belt system provides the power for the optional alternators and refrigeration compressor minimizing the chance of slippage and premature belt failure.

OUTSTANDING STANDARD FEATURES •

The 182 cubic inch engine is naturally aspirated which provides extra low end horsepower, makes it simpler and easier to install and adds to its reliability. The engine is more tolerant of exhaust back pressure and a smaller two inch exhaust hose can be used saving cost, space and the need for a large hole through the hull. Convenient domestic hot water heater connections are part of the cooling system and are provided on the engine. A self bleeding fuel system saves the owner the hassle of purging air from the engine fuel system when changing filters or when the engine is inadvertently run out of fuel. The engine oil cooler is built into the engine block for reliability and long life. Other features such as high coolant and low oil pressure alarms, reliable glow plug starting aide, electric engine shut-off, transmission oil cooler and much more are all included as standard. Most important is the "One Side Service" feature for ease in performing daily service checks and routine maintenance.

UNIQUE, FACTORY INSTALLED OPTIONS •

A choice of any one of four optional high output battery charging alternators are available in place of the standard 51 ampere alternator. A 90 ampere single output is one choice. The other three choices are a 135, a 165 or a 190 ampere alternator. These latter three alternators all feature dual outputs, capable of charging two banks of batteries without using a battery splitter. This means fewer connections and more efficient charging. Another important option is provisions for a rotary refrigeration compressor. Engine mounted, it adds less than three inches to the installed height. Factory engineered and factory installed, the owner and builder benefit from a complete and properly designed compressor drive.

• INSTALLER FRIENDLY •

With the builder/installer in mind, Westerbeke has designed the mounting system to provide common bed widths and heights. The engine beds are in line with the propeller shaft allowing fore and aft engine positioning while still maintaining shaft alignment. The narrow profile (only 23.3 inches wide, above the beds) minimizes installation space. Exhaust and water connections for standard size hose are provided eliminating the need for additional fittings. Flexible fuel connections ending in standard pipe threads are also supplied. The smaller two inch exhaust hose permitted by the naturally aspirated engine is easy to install and saves space as well as cost. Important options are factory designed and installed and the engine comes as a complete package, ready to drop on the beds. The self bleeding fuel system saves time during testing and commissioning.





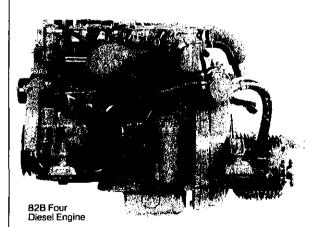
Four cylinder, four cycle smoothness in a lightweight, compact engine

Many features are standard equipment

The new Model 82B Four represents the latest engine design from Westerbeke. With a low and narrow profile it is lightweight and easily installed. The naturally aspirated design provides extra lowend power as well as simplicity and reliability. The standard transmission, fresh water cooling system and captive fail-safe mounts are all oversized for added dependability.

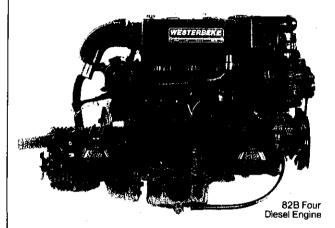
Engineered with a self bleeding fuel system, front mounted sea water pump, oil drain hose and one-side servicing, the product is easily maintained. A comprehensive list of factory designed and installed options allows you to custom tailor your engine to fit your individual requirements.

Parts and service are available worldwide. Westerbeke engines and generators can be serviced by over 600 authorized dealers strategically located in major navigable waterways in the United States and Canada, as well as in 22 countries overseas.



Dimensions		
Length	38.8" (985.8 mm)	
Width	25.5" (647.7 mm)	
Height	27.3" (694.0 mm)	
Weight	678 lbs (307.5 kilos)	

See other side for more dimension information



A new generation of marine diesel engines

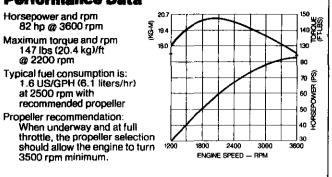
- Fresh water cooling
- Engine prewired to plug-in connector
- Self-bleeding fuel system
- 12 volt, 51 ampere alternator
- Domestic hot water connection
- Coolant recovery tank
- Throttle and shift control brackets
- Low oil pressure and high water temperature alarms
- Belt-driven sea water pump
- Standard marine transmission with 1.9:1 reduction
- Transmission oil cooler
- Glow plug cold starting aid
- Oversized four point adjustable flex mount
- Lube oil drain hose
- Fresh water lube oil cooler
- Flexible fuel supply and return connector
- Operator's Manual and Parts List
- Large list of factory engineered options



82B



Performance Data



Specifications

Number of cylinders	4 Cylinder vertical
Cycles	4 Cycle
Displacement	182 cu. in. (2.977
Bore and stroke	3.74" x4.13" (95r
Compression ratio	21:1
Maximum angle of installation	Not to exceed 14°
Maximum angle of operation	Not to exceed 25°
Crankshaft, direction of rotation	Counterclockwise flywheel end
Propeller shaft, direction of rotatio	n Right hand - std.
Dry weight	678 lbs (307.5 kild
Combustion system	Swirl type
Aspiration	Naturally aspirated
Lubrication system	Forced lubrication
Cooling system	13 quarts (12.3 lite
Starting aid	12 volt sheathed ty
Engine stop	Electric
Fuel injection pump	Bosch type
Governor	Centrifugal type
Injectors	Throttle type
Fuel filter	Full flow, spin-on e
Lube oil filter	Full flow, spin-on e
Lubricant capacity	6.5 quarts (6.2 lite
Lube oil cooler	Fresh water cooled
Fuel transfer pump	Electrical
Fuel supply and return piping	1/4" ID (.635 mm) 3/8" ID (.952 mm)
Starting motor	12 volt, solenoid, a
Battery charging alternator	51 ampere (12 volt
Cold cranking amps	250-300 amps
Electrical system	12 volts DC, negat

in-line liter) mmx105mm) as viewed from trans. os) d by gear pump ers) ype glow plug element element ers) d minimum maximum actuated shift ts)

50-300 amps 2 volts DC, negative ground

Construction — Engine Components

Covernment interaction	
Cylinder block	Cast iron
Crankshaft	Forged crankshaft, five main bearings
Valves	Overhead valves, rotating type
Fuel system	Self bleeding
Intake system	Tuned intake silencer for maximum noise reduction
Cooling system	Freeh water-odoled with oversized tube and shell type heat exchanger
Exhaust manifold	Cast aluminum, fresh water-cooled with built-in expansion tank

Standard Equipment

Standard geer ratio				
Mounting centers	22.5"			
Flexible mounts				
Domestic hot water connection Coolant recovery tank				
Battery charging alternator Starting aide	51 amp, 12 volt			
Control brackets	Throttle and shift			
Prewired Engine				
Belt-driven sea water pump				
Lube oil cooler in fresh water system				
Lube oil drain hose				
Trarismission oil cooler				
Oil fill	Тор			
Flexible fuel supply and return connection				
Operator's Manual and Parts List				
Optional Equipment Captain panel with alarm (tachometer with lights)				
Dual station senders				
Other dear ratios (Consult local Distributor			

 Other gear ratios
 Consult local Distributor

 Hydraulic transmissions
 Consult local Distributor

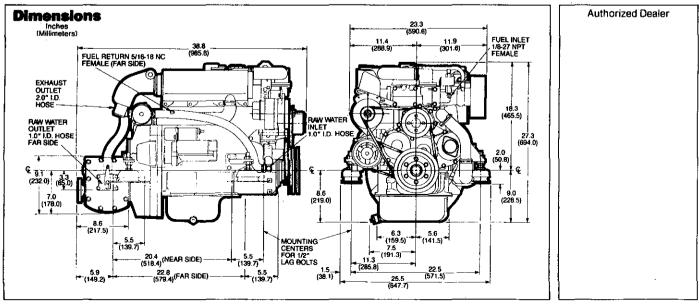
 Remote expansion tank
 Consult local Distributor

 Provisions for refrigeration compressor
 Muffler and fittings

 "A" and "B" on board spare parts kits
 Alternators, 90 amp single output; 135, 165, 190 dual output

 Anti-siphon valve for overboard cooling discharge water
 Technical Manual

 Exhaust connection (water injected 70° elbow)
 Propeller shaft couplings (rigid/flexible) — available standard sizes



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