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

A new generation of marine diesel engines

The new Westerbeke B advanced series engines have the smallest "envelope" available ("envelope" is the combined length, width, height). These lightweight low profile engines are designed to fit into the smallest of engine compartments. They are engineered by Westerbeke, pioneers in marine diesel engines, to provide consistent performance, quietness, durability and above all reliability, year after year.

The new B series engines are easy to install, economical to operate, and convenient to service. A full range of options is available allowing 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 800 authorized dealers strategically located in major navigable waterways in the United States and Canada, as well as in 29 countries overseas.

Many features are standard equipment

- Fresh water cooling
- Engine prewired to plug-in connector
- Self-bleeding fuel system
- 12 volt 50 ampere alternator
- Flow control domestic hot water connections
- Coolant recovery tank
- Throttle, stop, and shift control brackets
- Low oil pressure and high water temperature alarms
- Gear-driven sea water pump
- Short profile marine gear with 2.47:1 reduction
- Glow plug cold starting aid
- Four point adjustable flex mounts
- Lube oil drain hose
- Flexible fuel supply and return connector
- Operator's Manual and Parts List
Performance Data

Horsepower and rpm
42 hp @ 3600 rpm
31.3 kW

Maximum torque and rpm
56 lb-ft @ 2500 rpm

Typical fuel consumption
0.055 US gal/hp/hr
(0.208 liters/hp/hr)

Typical fuel consumption @ 2500 rpm
1.8 GPH
6.8 L/H

Specifications

Number of cylinders 4 Cylinder vertical in-line
Cycles 4 Cycle
Displacement 90.93 cu. in. (1.49 liter)
Bore and stroke 3.07" x 3.07" (78 mm x 78 mm)
Compression ratio 23:1
Maximum angle of installation Not to exceed 14°
Maximum angle of operation Not to exceed 25°
Crankshaft, direction of rotation Counterclockwise as viewed from flywheel end
Propeller shaft, direction of rotation Right hand — std. trans.
Dry weight 419 lbs (190.0 kilos)
Combustion system Swirl type
Aspiration Naturally aspirated
Lubrication system Forced lubrication by gear pump
Cooling system 7 quarts (6.6 liters)
Starting aid 12 volt sheathed type glow plug
Engine stop Manual type
Fuel injection pump Bosch type
Governor Centrifugal type
Injectors Throttle type
Fuel filter Primary and secondary
Lube oil filter Full flow, spin-on element
Lubricant capacity 1.189 US gal (4.5 liters)
Fuel transfer pump Electrical
Fuel supply and return piping 1/4" ID (6.35 mm) minimum
3/8" ID (9.52 mm) maximum
Starting motor 12 volt, solenoid, actuated shift
Battery charging alternator 50 ampere (12 volts)
Cold cranking amps 190 amps
Alternator/regulator Automatic, solid state built-in
Electrical system 12 volts DC, negative ground

Construction — Engine Components

Cylinder head Cast iron
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 Fresh water-cooled with tube and shell heat exchanger
Exhaust manifold Cast aluminum, fresh water-cooled with built-in expansion tank

Standard Equipment

Standard gear ratio 2.47:1
Mounting centers 14.56" or 16.00"
Flexible mounts Adjustable fail-safe rubber type
Flow control domestic hot water connection
Coolant recovery tank
Battery charging alternator
Starting aid
Control brackets For all control attachments
Prewired Engine
Gear-driven sea water pump
Lube oil drain hose
Gear oil cooler
Oil filler Top and service side
Flexible fuel supply and return connection
Operator's Manual
Parts List

Optional Equipment

Captain panel with alarm (tachometer with lights)
Admiral panel with alarms (tachometer with gauges)
Dual station senders
Other gear ratios Consult local Distributor
Hydraulic transmissions Consult local Distributor
Remote expansion tank
Fuel/water separator
Muffler and fittings
"A" on board spare parts kit
"B" extended cruising spare parts kit
Anti-siphon valve for overboard cooling discharge water
Technical Manual
Exhaust connection (water injected 90°, 45° elbows & riser)
Propeller shaft couplings (rigid/flexible) — available standard sizes

Dimensions

[Dimensions diagram]

Authorized Dealer

WESTERBEKE CORP., AVON INDUSTRIAL PARK, AVON, MA 02322 U.S.A. • TELEPHONE: (508) 588-7700 • TELEX: 92-4444 • FAX: (508) 559-9323 • CABLE: WESTCORP

Specifications Subject to Change without Notice