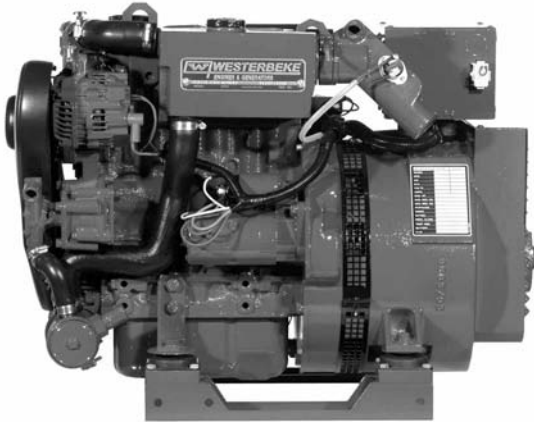
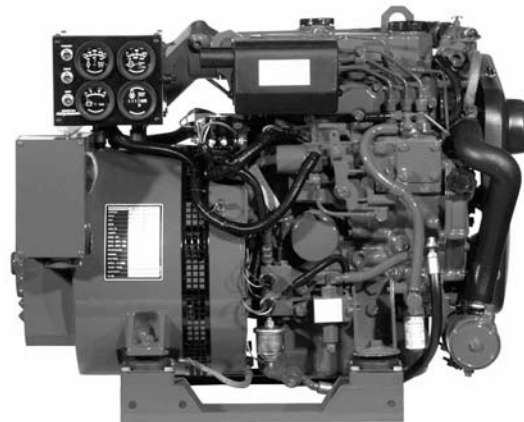




More power, less size...



11.5/9.2 BTD Diesel Generator



11.5/9.2 BTD Diesel Generator

Quiet and Compact

Running at 1800-rpm with tuned air intake silencer and 3-cylinder smoothness, the 11.5 BTD is powerfully quiet. The generator also features one of the smallest envelopes of any generator in its class.

Precise Frequency Regulation

Electronic governing provides instantaneous response as load is applied or removed from the generator. No dimming lights associated with mechanical governing speed fluctuation.

Powerful and Reliable

The 11.5 BTD is powered by a naturally aspirated, industrial, 1.3 liter engine specially engineered to operate in a hostile marine environment. Powerful but lightweight, it is economical to operate and designed to run at a slow 1800-rpm for longer life.

Easy Operation and Maintenance

To minimize engine maintenance, the 11.5 BTD is fresh water cooled and designed with easy access to servicing points. Individually removable top and side panels of the optional sound enclosure aid installation and routine maintenance.

Full Torque, Power Take-Off Interface

A customer sourced, electric clutch and hydraulic pump can be mounted to the full torque, power take-off interface for use with such items as bow or stern thrusters, compressors, winches and emergency "get-home" systems.

Five Year Limited Warranty

The 11.5 BTD is backed by Westerbeke's 5-year limited warranty. The presence of Westerbeke in over 65 countries around the world provides customers with easy access to parts, service and technical support worldwide. Established in 1937, Westerbeke is committed to providing its customers with quality products and unequalled after sales support.

Standard Features

- Instrument panel and safety stop switch
- Remote start-stop plug-in connection
- Electronic governing
- Extra oil pressure switch for remote signal or control functions
- Safety shut-downs - high coolant temperature, low oil pressure, high exhaust temperature
- A.C. circuit breaker (single phase)
- 50 amp alternator
- Power take-off interface
- Self-bleeding fuel system
- Fresh water cooling and coolant recovery tank
- 45 degree water injected exhaust elbow
- Gear driven raw water pump
- Tuned air intake silencer
- Vibration mounts - fail safe rubber type
- Lube oil drain hose and drip tray
- Oil fill - top and side
- Belt guard
- Operators' manual and parts list

Optional Sound Guard SST



Generator Dimensions with Sound Guard SST

| | | |
|--------|----------------------|----------------------|
| Length | 31.5" (800 mm) | 36.1" (916 mm) |
| Width | 19.1" (485 mm) | 23.2" (589 mm) |
| Height | 24.0" (610 mm) | 25.3" (643 mm) |
| Weight | 513 lbs. (233 kilos) | 595 lbs. (270 kilos) |

Generator Design

DESIGN: Brushless, four pole, revolving field, power takeoff.
VOLTAGE REGULATION: Standard +/- 5% no load to full load.
FREQUENCY REGULATION: .5 Hz (.60%) no load to full load.
INSULATION: Class "H", as defined by NEMA MG1-1.65.

TEMPERATURE RISE: Within NEMA MG1-22.40 definition when operating at full load.

COOLING: Cast centrifugal blower, direct connected.

ELECTROMAGNETIC INTERFERENCE LEVEL: Exceeds requirements for most marine radio-telephones and standard TVs.

| Model | Electrical Characteristics | | | | | Ratings | | Engine | |
|--------------|----------------------------|-----------|-------|-------|------|--------------|------|--------|--------|
| | Volts | Amps | Hertz | Phase | Wire | Power Factor | KW | RPM | Start |
| 11.5 BTD-614 | 120/240 | 95.8/47.9 | 60 | 1 | 4 | 1.0 | 11.5 | 1800 | Remote |
| 9.2 BTD-514 | 230 | 40 | 50 | 1 | 4 | 1.0 | 9.2 | 1500 | Remote |

Three phase units, 50 & 60 Hz, are available in these ratings.

Generator field adjustable to 50 or 60 Hz.

Specifications

| | |
|-------------------------------|--|
| Number of cylinders | 3 Cylinder vertical in-line |
| Type | 4 cycle |
| Displacement | 80.43 cu. in. (1.318 liter) |
| Bore and stroke | 3.07" x 3.62" (78 mm x 92 mm) |
| Compression ratio | 22:1 |
| Rated rpm | 60 Hz - 1800 rpm 50 Hz - 1500 rpm |
| HP @ 1800/1500 rpm | 18.9/16.5 |
| Maximum angle of operation | 15° Continuous, 30° Intermittent |
| Exhaust elbow connection | 2.0" OD (50.8mm) |
| Raw water connection | 1.0" OD (25.4mm) |
| Dry weight | 513 lbs. (232.7 kilos) |
| Combustion system | Swirl type |
| Aspiration | Naturally aspirated |
| Lubrication system | Forced lubrication by trochoid pump |
| Cooling system | 5 quarts (4.7 liters) |
| Starting aid | 12 volt sheathed type glow plug |
| Full load fuel consumption | 1.17 GPH (4.4 LPH) @ 1800 rpm 1.00 GPH (3.8 LPH) @ 1500 rpm |
| Fuel injection pump | Bosch type |
| Governor | Electronic |
| Injectors | Throttle type |
| Fuel Filter | Primary |
| Lube oil filter | Full flow, spin-on element |
| Fuel supply and return piping | 1/4" ID (6.35 mm) minimum 3/8" ID (9.52 mm) maximum |

| | |
|-----------------------------|---------------------------------|
| Fuel transfer pump | 12 Volt DC electric type |
| Lubricant capacity | 4 quarts (3.8 liters) |
| Starting motor | 12 volt, solenoid actuated |
| Battery charging alternator | 50 ampere (12 Volts) |
| Cold cranking amps | 240 amps @ 69 degrees F |
| 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, four main bearings |
| Valves | Overhead, rotating type |
| Fuel System | Self-bleeding |
| Intake system | Tuned intake silencer for maximum noise reduction |
| Cooling system | Fresh water-cooled with shell and tube type heat exchanger |
| Exhaust manifold | Cast aluminum, fresh water-cooled |

Optional Equipment

- Remote start-stop panel
- 15' & 30' connectable panel ext. harness (up to 60'/18.3 m)
- Dual station engine instrument panel with senders
- Ship-shore switch
- Power takeoff adapter
- Fuel/water Separator
- Hydro-hush muffler and fittings
- "A" on board spare parts kits; "B" extended cruising spare parts kit
- Anti-siphon valve for overboard cooling discharge water
- Technical manual
- Sound Guard sound enclosure

Dimensions

Inches (millimeters)

