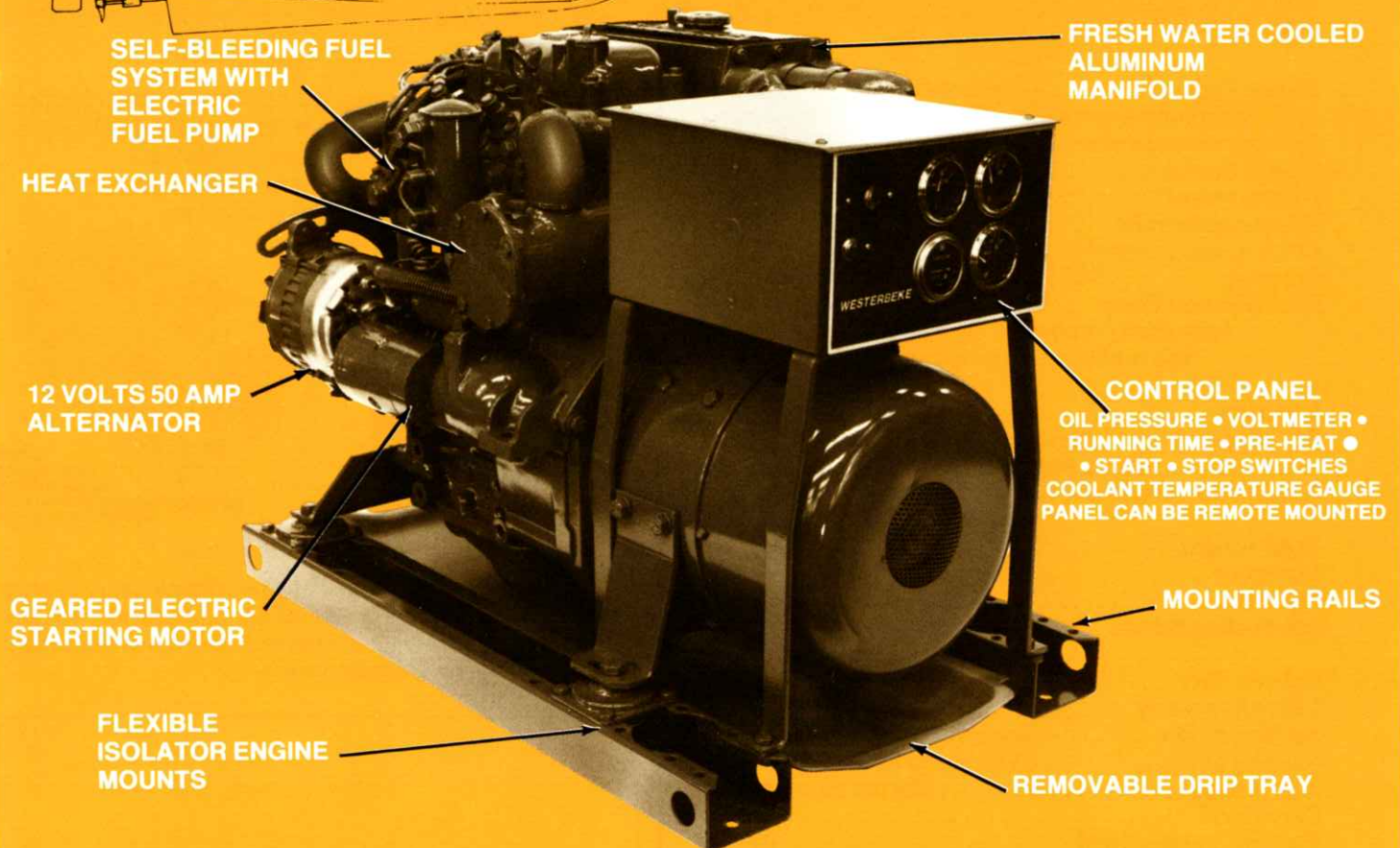


# WESTERBEKE 4.4 KW MARINE DIESEL GENERATOR SET

A small, reliable, smooth running Generator Set for all your shipboard needs; 120 volt electrical power at the turn of a switch for: Electric Cooking, Microwave Oven, Refrigeration, Cabin Appliances, Power Tools, and Navigation/Communication Equipment. Like all Westerbeke Generator Sets, it is fresh water cooled with an Engine mounted Heat Exchanger. The Engine and Generator are connected through special "Commonized" Drive Discs, Flywheel, and Flywheel Housing into a compact, carefully aligned Generator Set. The complete unit is mounted on lightweight rails through soft flexible Isolator Mounts that prevent the transfer of vibration. A lightweight removable Drip Tray is fitted under the unit between the mounting rails. The Engine is fitted with an Electric Fuel Pump and Self-Bleeding Fuel System which restarts after loss of fuel supply without manual air bleeding. Cast iron cylinder head and block plus swirl type combustion chamber plus tuned air intake silencer produce quiet running unmatched in the industry.

The Westerbeke 4.4 is lightweight, safe, dependable, durable, and economical to operate. Designed to operate at a quiet 1800 RPM, the Westerbeke 4.4 offers 2 cylinder 4 cycle smoothness to provide electrical conveniences usually found only on larger boats.

**FOR POWER OR SAILBOAT... A NEW SERIES OF DIESEL GENERATOR SETS FROM WESTERBEKE.**



**GENERATORS: 3, 4.4, 6, 8, 11, 12.5, 15, 20, 25, 32, 45**

*Fresh Water Cooled Diesel Generators from Westerbeke.*

**WESTERBEKE 4.4 KW**

**DESIGN:** Four pole revolving armature, inherently regulated, self limiting, rectifier excited, A.C. slip rings, single bearing design.

**VOLTAGE REGULATION:** ±7% no load to full load.

**FREQUENCY REGULATION:** 3 Hertz (5%) no load to full load.

**INSULATION:** Class F as defined by NEMA MGI-1.65.

**TEMPERATURE RISE:** Within NEMA MGI-22.40 definition when operating @ full load.

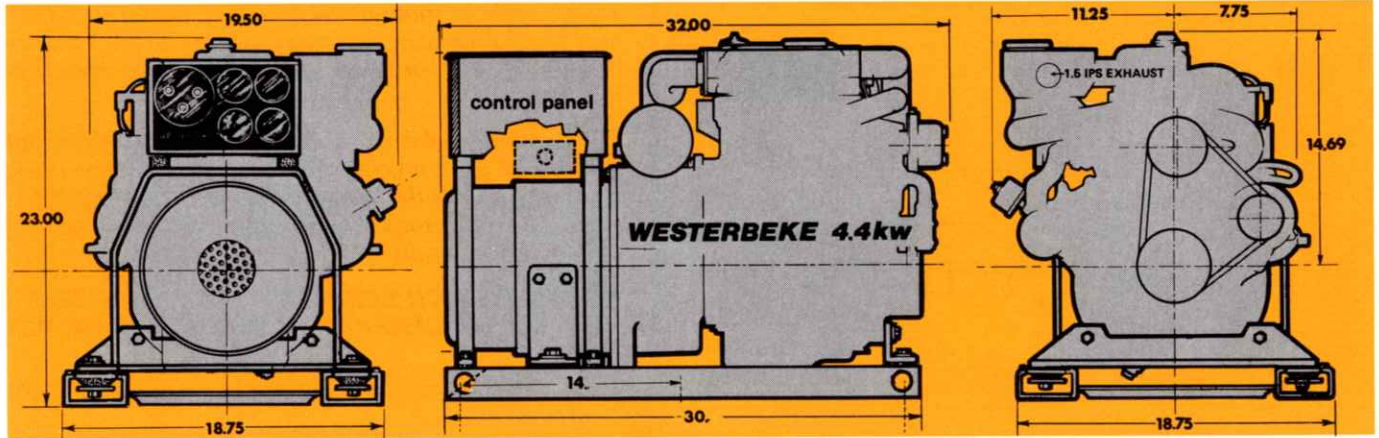
**COOLING:** Centrifugal blower, direct connected.

**RADIO INTERFERENCE LEVEL:** Capacitors minimize interference within the limits of most marine applications.

**ARMATURE:** Balanced laminated steel, double dipped and baked.

ELECTRICAL CHARACTERISTICS						RATINGS		DERATINGS	ENGINE	
Model	Volts	Amps	Hertz	Phase	Wire	Power Factor	KW		RPM	Start
4.4-612	120	36.6	60	1	2	1.0	4.4	3.5% each 1000 feet above sea level. 1% for each 10° Fahrenheit above 85° Fahrenheit ambient. 10% for continuous duty.	1800	Remote
4.4-613	120/240	18.3	60	1	3	1.0	4.4		1800	Remote
3.3-512	120	27.5	50	1	2	1.0	3.3		1500	Remote
3.3-513	120/240	13.7	50	1	3	1.0	3.3		1500	Remote

3 phase not available in either 50 or 60 cycle.



**ENGINE**

- Engine Type . . . . . 4 cycle, water cooled, naturally aspirated, vertical overhead valve, diesel engine
- Cylinder arrangement . . . . . 2 cylinders in line
- Bore & Stroke . . . . . 2.68" x 3.07" (68mm x 78mm.)
- Displacement . . . . . 37 cubic inch (.606 litre)
- Compression ratio . . . . . 23 to 1
- Cooling water capacity . . . . . 6 Qts.
- 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.
- Injectors . . . . . Pintle type
- Self-Bleeding Fuel System . . . . . Restarts after loss of fuel supply without manual air bleeding.
- Combustion Chamber . . . . . Swirl type for easy starting and quiet operation
- Total weight . . . . . 430 lbs.
- 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
- Lub. oil capacity . . . . . 2.5 Qts.
- Starting motor . . . . . Geared electric motor, 12 Volt.
- Starting aid . . . . . 12 Volt sheathed type glow plug
- Fuel pump . . . . . Electric plunger type
- Rated RPM . . . . . 1800
- Max. Hp. at rated RPM . . . . . 8.6 HP
- Full load fuel consumption . . . . . approx. 0.5 G.P.H.

**STANDARD EQUIPMENT**

- 12 Volt 50 Ampere Alternator • Coolant recovery tank
- Fresh water cooling system • Operators Manual
- Air Intake Silencer • 12 Volt Starting Motor
- Flex Isolator Engine Mounts • Control Panel
- Water Injected Exhaust Elbow • Drip Tray
- Hi Water-Lo Oil Shutdown
- Hi Exhaust Temp. Shutdown
- On Plant Safety Stop Switch



**OPTIONAL EQUIPMENT**

- Sound Guard, Hydro Hush Muffler, remote start — stop control, 15 ft. plug-in extension harness for Remote Mounting Control Panel, Control Panel cover plate, Ship to Shore Rotary Transfer Switch.

**OR CONTACT THE . . .**

**J. H. WESTERBEKE CORP.**



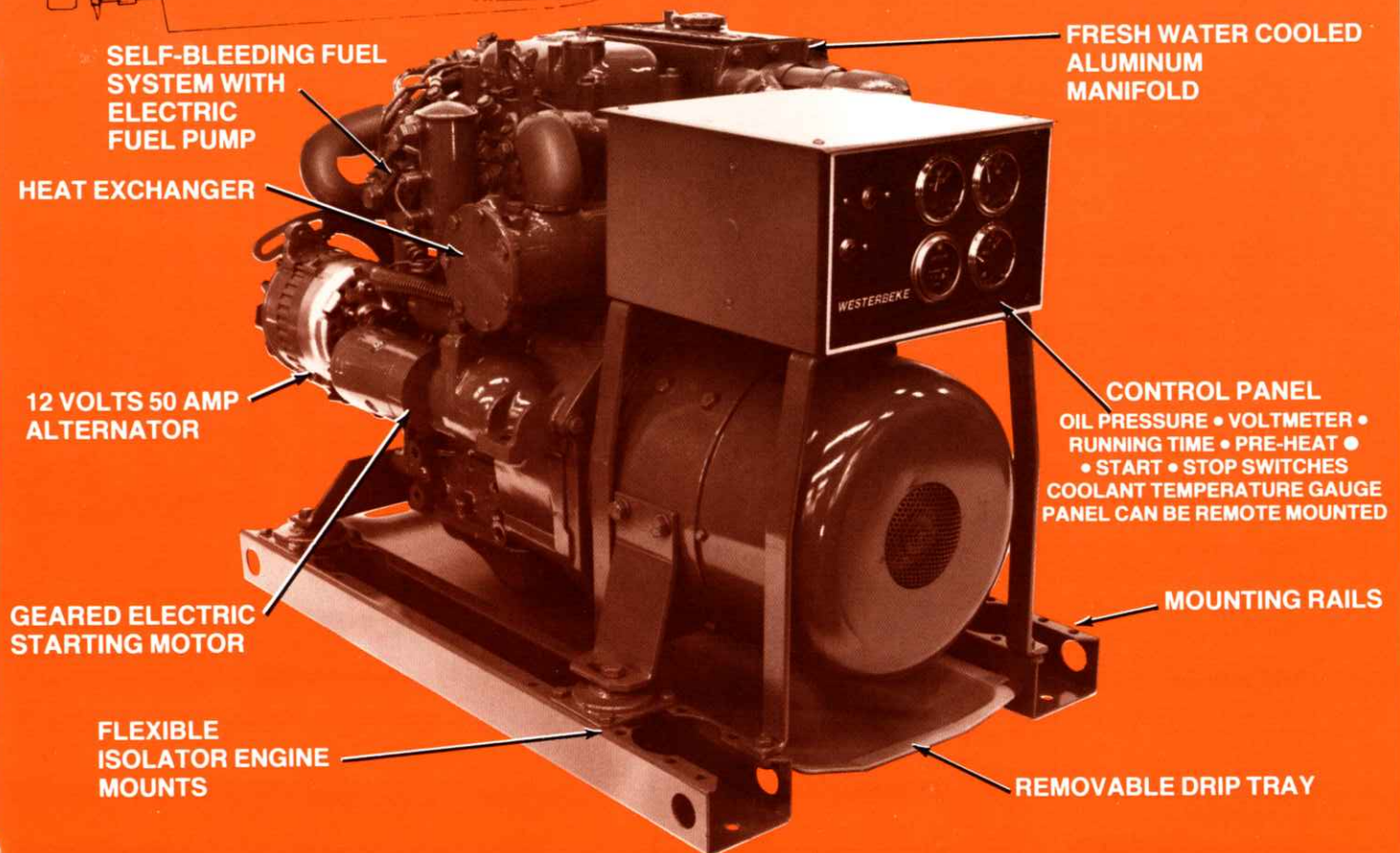
Avon Industrial Park, Avon, MA 02322, (617) 588-7700  
Cable: Westcorp, Avon, Telex: 92-4444

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**GENERATORS: 4.4, 7.7, 10, 11.0, 12.5, 15, 20, 30, 45**

Fresh Water Cooled Diesel Generators from Westerbeke.

# WESTERBEKE 4.4 KW MARINE DIESEL GENERATOR

**RATING:** 4.4 kw, 1.0 power factor.

**VOLTAGE:** Model 612 — 120 volt, 2 wire, 36.6 amps.  
Model 613 — 120/240 volt, 3 wire, 18.3 amps.

**FREQUENCY:** 60 Hertz (50 Hertz available at reduced out-put. Consult factory.)

**DESIGN:** Four pole revolving armature with no D.C. brushes or commutator. Inherently regulated with solid state rectifier type self-excitation. A.C. slip rings, drip proof construction, single bearing design and self limiting. Connection to the engine is by a semi-flexible drive disc for positive alignment.

**VOLTAGE REGULATION:**  $\pm 10\%$  no load to full load.

**FREQUENCY REGULATIONS:** 3 Hertz (5%) no load to full load.

**INSULATION:** Class "F" as defined by NEMA MG1-1.65.

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

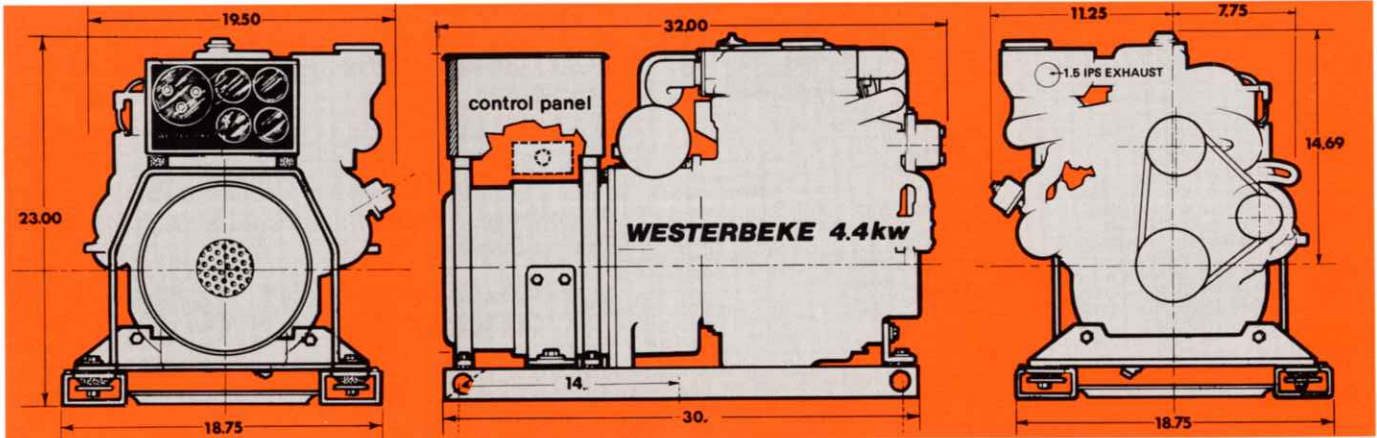
**COOLING:** Centrifugal type blower, direct connected.

**RADIO INTERFERENCE LEVEL:** Capacitors minimize interference within the limits of most commercial and civilian applications.

**ARMATURE:** Balanced laminated steel, double dipped and baked.

**FIELD RING:** Thick hot rolled steel with welded bearing support bracket. Machined as an assembly for precise bearing alignment.

**BEARING:** Pre-lubricated ball bearing, double sealed with anti-rotation lock.



## ENGINE

Engine Type ..... 4 cycle, water cooled, naturally aspirated, vertical overhead valve, diesel engine  
Cylinder arrangement ..... 2 cylinders in line  
Bore & Stroke ..... 2.68" x 3.07" (68mm x 78mm.)  
Displacement ..... 37 cubic inch (.606 litre)  
Compression ratio ..... 23 to 1  
Cooling water capacity ..... 6 Qts.  
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.  
Injectors ..... Pintle type  
Self-Bleeding Fuel System ..... Restarts after loss of fuel supply without manual air bleeding.  
Combustion Chamber ..... Swirl type for easy starting and quiet operation  
Total weight ..... 430 lbs.  
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  
Lub. oil capacity ..... 2.5 Qts.  
Starting motor ..... Geared electric motor, 12 Volt.  
Starting aid ..... 12 Volt sheathed type glow plug  
Fuel pump ..... Electric plunger type  
Rated RPM ..... 1800  
Max. Hp. at rated RPM ..... 8.6 HP  
Full load fuel consumption ..... approx. 0.5 G.P.H.

## STANDARD EQUIPMENT

12 Volt 50 Ampere Alternator • Coolant recovery tank  
Fresh water cooling system • Operators Manual  
Air Intake Silencer • 12 Volt Starting Motor  
Flex Isolator Engine Mounts • Control Panel  
Water Injected Exhaust Elbow • Drip Tray



STANDARD MOUNTED PANEL



OPTIONAL "SOUND/GUARD" SOUND ENCLOSURE  
APPROX. DIMEN. 25" W x 41" L x 27" H  
APPROX. WGHT. 118 LBS.

## OPTIONAL EQUIPMENT

Sound Guard, Hydro Hush Muffler, remote start — stop control, 15 ft. plug-in extension harness for Remote Mounting Control Panel, Control Panel cover plate, Ship to Shore Rotary Transfer Switch.

OR CONTACT THE . . .

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ELECTRIC FUEL PUMP

HEAT EXCHANGER

12 VOLT 50 AMP ALTERNATOR

GEARED ELECTRIC STARTING MOTOR

ADJUSTABLE FLEX ISOLATOR ENGINE MOUNTS

FRESH WATER COOLED 2 PASS ALUMINUM MANIFOLD

CONTROL PANEL

OIL PRESSURE • VOLTMETER •  
RUNNING TIME • PRE-HEAT •  
• START • STOP SWITCHES

MOUNTING RAILS

REMOVABLE DRIP TRAY



**GENERATORS: 4.4, 7.7, 10, 11.1, 12.5, 15, 20, 30, 45**

Fresh Water Cooled Diesel Generators from Westerbeke.

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**FREQUENCY:** 60 Hertz (50 Hertz available at reduced out-put. Consult factory.)

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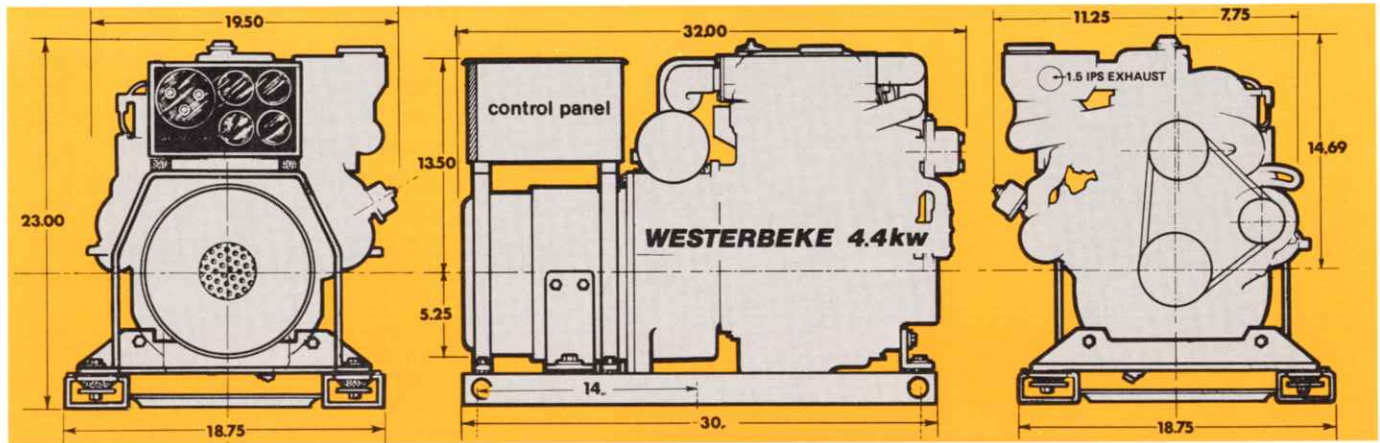
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## ENGINE

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Bore & Stroke . . . . . 2.68"x3.07" (68mm.x78mm.)  
Displacement . . . . . 37 cubic inch (566 litre)  
Compression ratio . . . . . 23 to 1  
Cooling water capacity . . . . . .6 Qts.  
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.  
Injectors . . . . . Pintle type  
Combustion Chamber . . . . . Swirl type for easy starting and quiet operation  
Total weight . . . . . 410 lbs.  
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  
Lub. oil capacity . . . . . 2.5 Qts.  
Starting motor . . . . . Geared electric motor, 12 Volt.  
Starting aid . . . . . 12 Volt sheathed type glow plug  
Fuel pump . . . . . Electric plunger type  
Rated RPM . . . . . 1800  
Max. Hp. at rated RPM . . . . . 8.6 HP

## STANDARD EQUIPMENT

12 Volt 50 Ampere Alternator • Coolant recovery tank  
Fresh water cooling system • Operators Manual  
Air Intake Silencer • 12 Volt Starting Motor  
Adjustable Flex Isolater Engine Mounts • Control Panel  
Water Injected Exhaust Elbow



## OPTIONAL EQUIPMENT

Hydro Hush Silencer • "Sound/Guard"  
Remote Instrument Panel • 10' Cable for remote Panel  
Ship to Shore Transfer Switch

OR CONTACT THE . . .

**J. H. WESTERBEKE CORP.**

