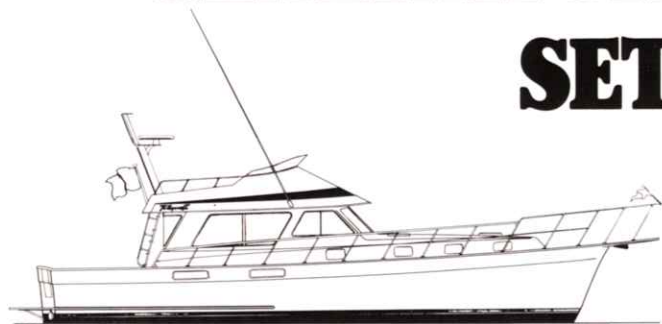


# WESTERBEKE 7.7 KW MARINE DIESEL GENERATOR SET

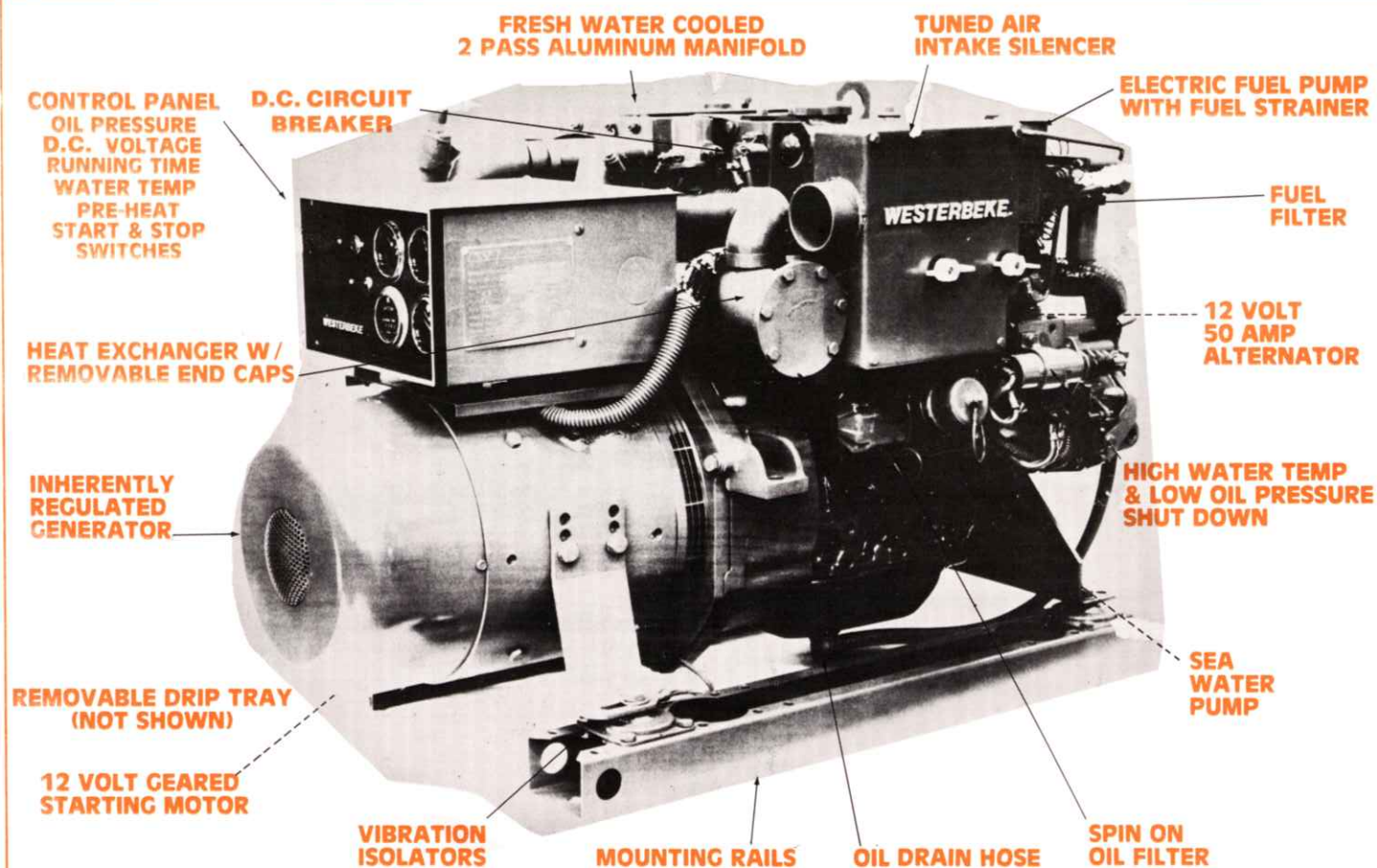


TOLLYCRAFT 48' CONVERTIBLE

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 that eliminates hand priming and 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 7.7 is lightweight, safe, dependable, durable, and economical to operate. Designed to operate at a quiet 1800 RPM, the Westerbeke 7.7 offers 3 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, 7.7, 11, 12.5, 15, 20, 25, 32, 45**

*Fresh Water Cooled Diesel Generators from Westerbeke.*



# WESTERBEKE 7.7 KW MARINE DIESEL GENERATOR

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

**VOLTAGE REGULATION:**  $\pm 7\%$  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.

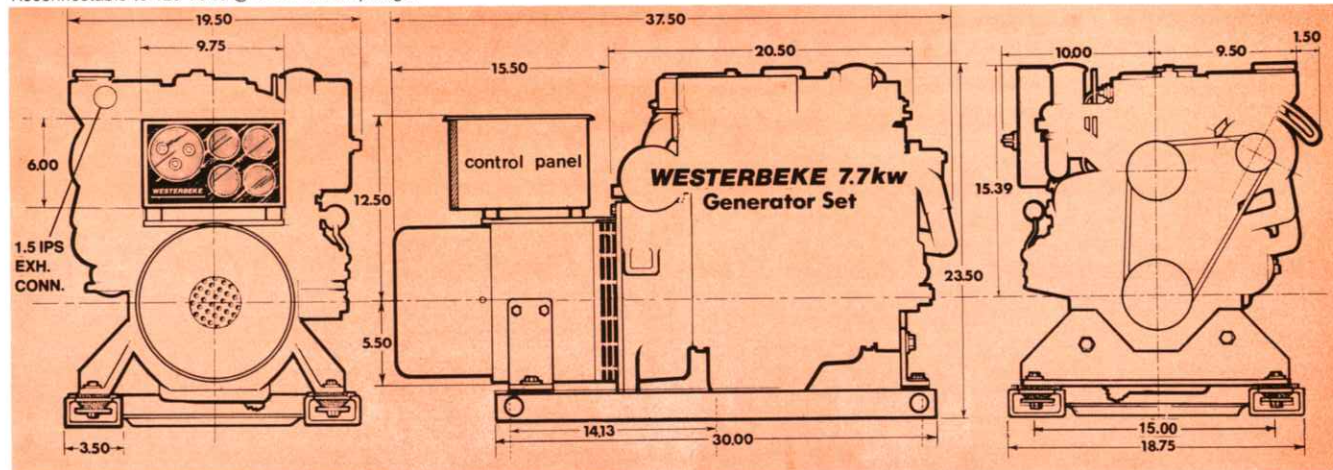
**COOLING:** Centrifugal blower, direct connected.

**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
7.7-614*	120/240	33	60	1	4	1.0	7.7	3.5% each 1000 feet above sea level.	1800	Remote
7.7-634	120/240	23	60	3	4	.8	7.7	1% for each 10° Fahrenheit above 85° Fahrenheit ambient.	1800	Remote
5.8-514*	120/240	25	50	1	4	1.0	5.8	10% for continuous duty.	1500	Remote
5.8-534	120/240	17.5	50	3	4	.8	5.8		1500	Remote

\*Reconnectable to 120 Volts @ twice the amperage.



## ENGINE

Engine Type . . . . . 3 cyl, 4 cycle, water cooled, naturally aspirated, vertical overhead valve, diesel engine  
 Bore & Stroke . . . . . 2.87" x 3.07" (73mm. x 78 mm.)  
 Displacement . . . . . 60 cubic inch (.979 litre)  
 Compression ratio . . . . . 23 to 1  
 Cooling water capacity . . . . . 5 Qts.  
 Fuel Injection Pump . . . . . Bosch Type with Individual plunger for each cylinder  
 Injectors . . . . . Pintle type  
 Combustion Chamber . . . . . Swirl type for easy starting and quiet operation  
 Total weight . . . . . 520 lbs.  
 Governor . . . . . Mechanical centrifugal type  
 Fuel filter . . . . . Paper element type  
 Lub. oil filter . . . . . Full flow, spin on, paper element type  
 Lub. oil capacity with filter . . . . . 3.3 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 . . . . . 14 HP  
 Full load fuel consumption approx. . . . . 0.9 GPH

## STANDARD EQUIPMENT

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



## OPTIONAL EQUIPMENT

Hydro Hush Silencer • "Sound/Guard"  
 Remote Instrument Panel • 15' Cable for remote Panel  
 Ship to Shore Transfer Switch

CALL YOUR WESTERBEKE REPRESENTATIVE

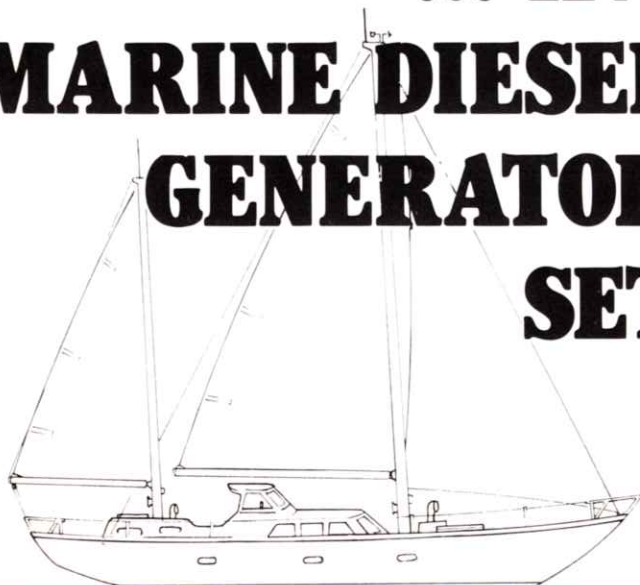
OR CONTACT THE . . .



**J. H. WESTERBEKE CORP.**



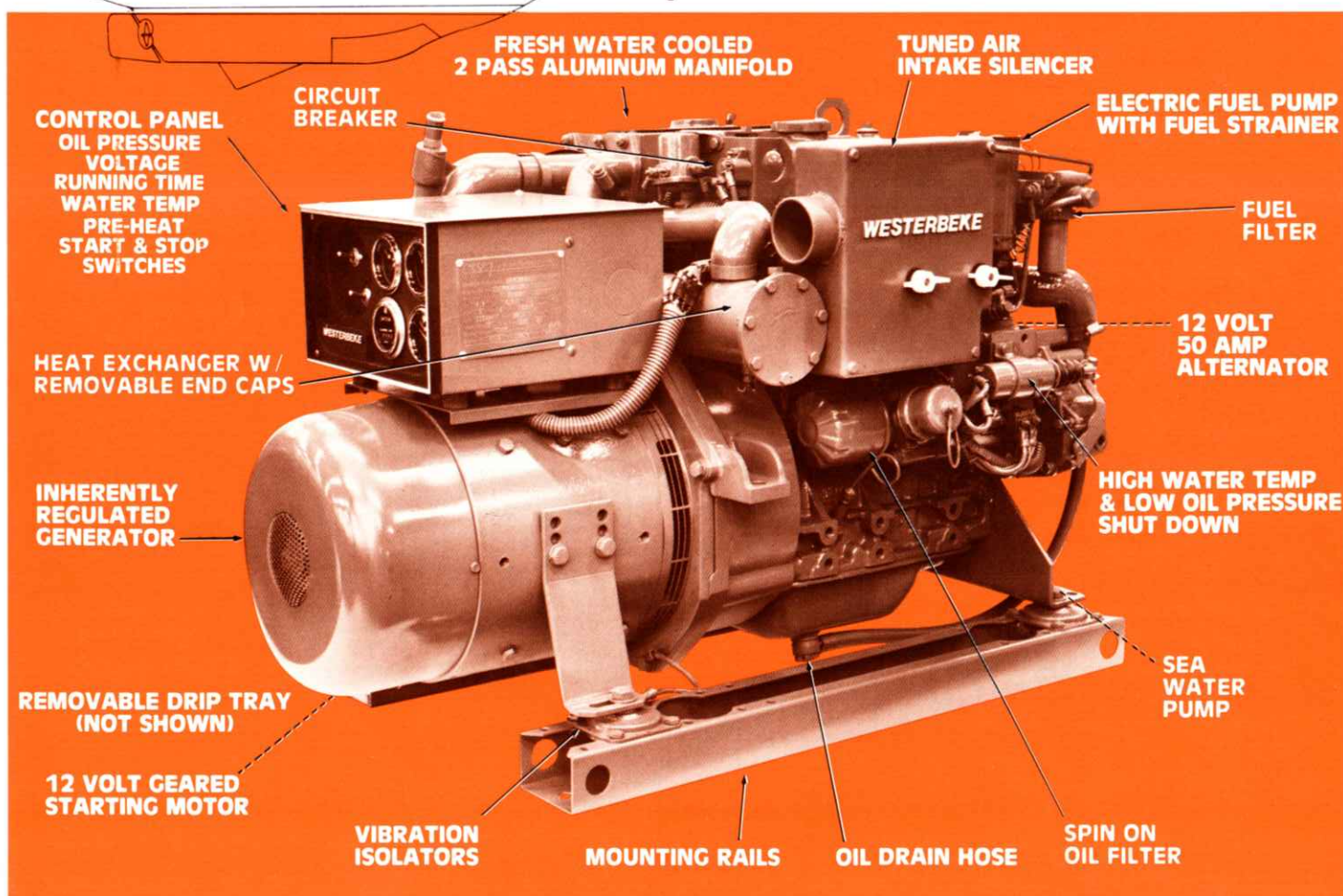
# WESTERBEKE 7.7 KW MARINE DIESEL GENERATOR SET



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-Priming Fuel System that eliminates hand priming and 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 7.7 is lightweight, safe, dependable, durable, and economical to operate. Designed to operate at a quiet 1800 RPM, the Westerbeke 7.7 offers 3 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: 4.4, 7.7, 10, 11.1, 12.5, 15, 20, 30, 45**

*Fresh Water Cooled Diesel Generators from Westerbeke.*



# WESTERBEKE 7.7 KW MARINE DIESEL GENERATOR

WESTERBEKE 7.7 KW

**RATING:** 7.7 kw, 1.0 power factor.

**VOLTAGE:** Model 614 — four lead reconnectable 120 volt, 2 wire, 66 amps; 120/240 volt, 3 wire, 33 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. Connection to the engine is by a semi-flexible drive disc for positive alignment.

**VOLTAGE REGULATION:**  $\pm 7\%$  no load to full load.

**FREQUENCY REGULATION:** 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.

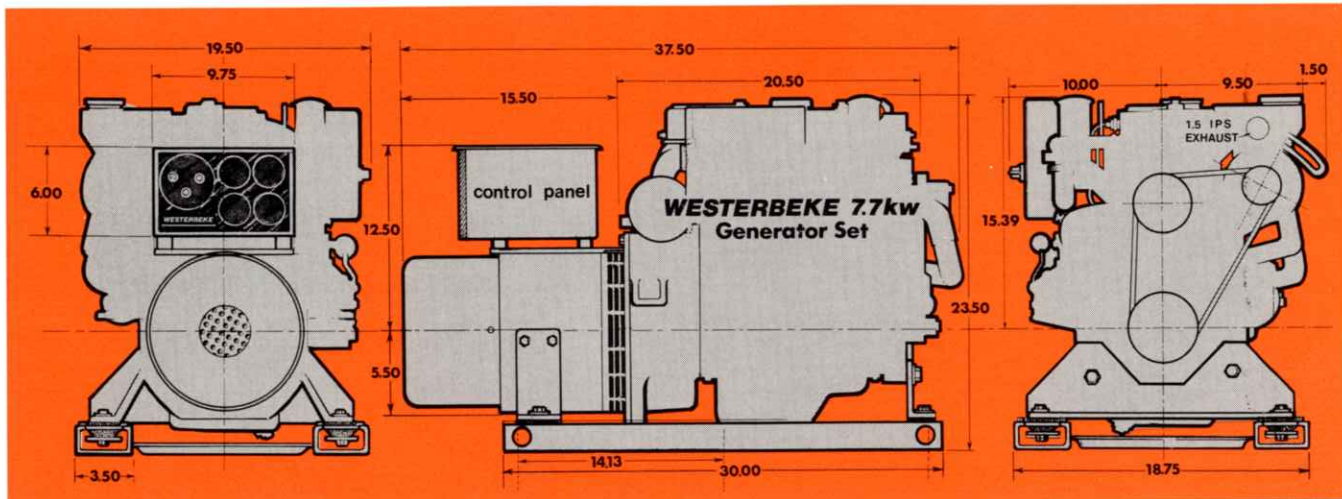
**COOLING:** Centrifugal type blower, direct connected.

**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 . . . . . 4 cylinders in line  
Bore & Stroke . . . . . 2.87" x 3.07" (73mm. x 78mm.)  
Displacement . . . . . 60 cubic inch (.979 litre)  
Compression ratio . . . . . 23 to 1  
Cooling water capacity . . . . . 5 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 . . . . . 520 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 . . . . . 3 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 . . . . . 14 HP

## STANDARD EQUIPMENT

12 Volt 50 Ampere Alternator • Coolant recovery tank  
Fresh water cooling system • Operators Manual  
Air Intake Silencer • 12 Volt Starting Motor  
Vibration Isolators • Control Panel  
Water Injected Exhaust Elbow



STANDARD MOUNTED PANEL



OPTIONAL "SOUND/GUARD" SOUND ENCLOSURE

## 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.**