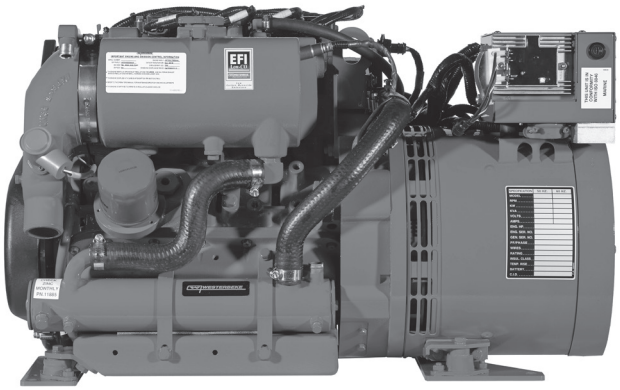
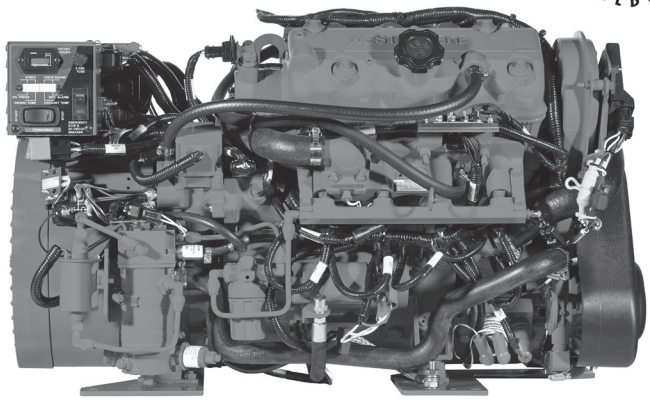
Multiport Electronic Fuel Injection



9.5/7.6 MCGA Marine Gasoline Generator
(Shown with optional 90° "REARX" exhaust)



9.5/7.6 MCGA Marine Gasoline Generator
(Shown with optional 90° "REARX" exhaust)

Low-CO, Low-Profile, Low-Speed

The 9.5 MCGA is one of the most compact low-CO, low-speed gasoline generators on the market. Westerbeke's unique marine design allows for a high performance generator that is comparable in size to high speed competitors. The lower operating speed of the 9.5 MCGA combined with a heavy duty industrial base engine contribute to a longer lasting, more reliable product.

Multiport EFI and Returnless Fuel System

The 9.5 MCGA features sequential multiport electronic fuel injection (MPI). MPI provides optimum fuel efficiency, easy starting, improved reliability and reduced emissions. In conjunction with MPI, electronic speed control maintains the engine at a constant speed (precise frequency regulation) and virtually eliminates "bogging down" when load is applied. A water cooled returnless fuel system aids in the prevention of vapor lock for improved performance in high ambient temperatures. MPI also features advanced diagnostic capabilities.

Smooth and Quiet Operation

Featuring a 4-cylinder, industrial base engine operating at an electronically controlled 1800 rpm, the 9.5 MCGA is extremely smooth and quiet running. In comparison, 3600 rpm engines are generally noisier than their 1800 rpm counterparts and require sound shields to attain similar sound levels.

Five Year Limited Warranty

The 9.5 MCGA is backed by Westerbeke's 5-year limited warranty.

Standard Features

- Simple, "one touch" start/stop control panel with running hour meter and LED lights
- Multiport EFI
- Water-cooled returnless fuel system
- Electronic governing
- Safety warnings and shut-downs — overspeed, low oil pressure, high exhaust and coolant temperature and more
- Fresh water cooling and coolant recovery tank
- Field convertible to 50 or 60Hz
- A.C. circuit breaker
- 12 amp battery charger
- Belt-driven raw water pump
- Vibration isolators
- Lube oil drain hose
- Belt guard
- Operators' manual and parts list
- Meets U.S.C.G. regulation 33CFR-183
- Complies with CARB & U.S. EPA regulations

Optional Venclosure

Dimensions: 34.0 x 22.6 x 19.5 inches
(LxWxH) 863 x 573 x 494 mm
Weight: 30 lbs. (14kg)

WESTERBEKE™ Engines & Generators

Generator Design

DESIGN: Brushless, four pole, revolving field.
VOLTAGE REGULATION: Standard +/- 5% no load to full load.
FREQUENCY REGULATION: .5 Hz (1%) no load to full load.
INSULATION: Class "H" as defined by NEMA MG1-1.66.
TEMPERATURE RISE: Within NEMA MG1-22.40 operating at full load.
COOLING: Cast centrifugal blower, direct connected.
ELECTROMAGNETIC INTERFERENCE LEVEL: Exceeds requirements for most marine radio-telephones and standard TV's.

	Electrical Characteristics					Ratings		Engine	
Model	Volts	Amps	Hertz	Phase	Wire	Power Factor	KW	RPM	Start
9.5 MCGA-614	120/240	79.1/39.5	60	1	4	1.0	9.5	1800	Remote
7.6 MCGA-514	230	33.0	50	1	4	1.0	7.6	1500	Remote

Specifications

Number of cylinders	4 Cylinder, vertical in-line	
Type	4 cycle	
Displacement	64.1 cu. in. (1.051 liters)	
Bore and stroke	2.58" x 3.07" (65.5mm x 78.0mm)	
Compression ratio	9.0:1	
Rated RPM @ 60/50Hz	1800/1500	
HP @ 1800/1500 rpm	16.8/13.4	
Maximum angle of operation	Not to exceed 25° in all directions	
Exhaust elbow conn.	2.0" OD (50.8mm)	
Raw water conn.	.75" OD (19.1mm)	
Dry weight	445 lbs (201.9 kg)	
Combustion system	Semi-spherical type	
Aspiration	Naturally aspirated	
Lubrication system	Forced pump	
Cooling system	4.75 quarts (4.5 liters)	
Full consumption (approx.)	1800 rpm	1500 rpm
100% load GPH (LPH)	1.24 (4.68)	1.00 (3.76)
75% load GPH (LPH)	1.02 (3.85)	0.84 (3.18)
50% load GPH (LPH)	0.79 (3.00)	0.66 (2.48)
25% load GPH (LPH)	0.59 (2.25)	0.48 (1.81)
Governor	Electronic	
Lube oil filter	Full flow, spin on element	
Lubricant capacity	4.1 quarts (3.9 liters)	

Fuel transfer pump	Electric type
Fuel supply	.25" ID (6.35mm)
Starting motor	12 volt, 1.4kW
Battery charging	12 amps, integral electric type
Cranking amps	120 amps @ 70 degrees F
Electrical system	12 volts DC, negative ground

Construction–Engine Components

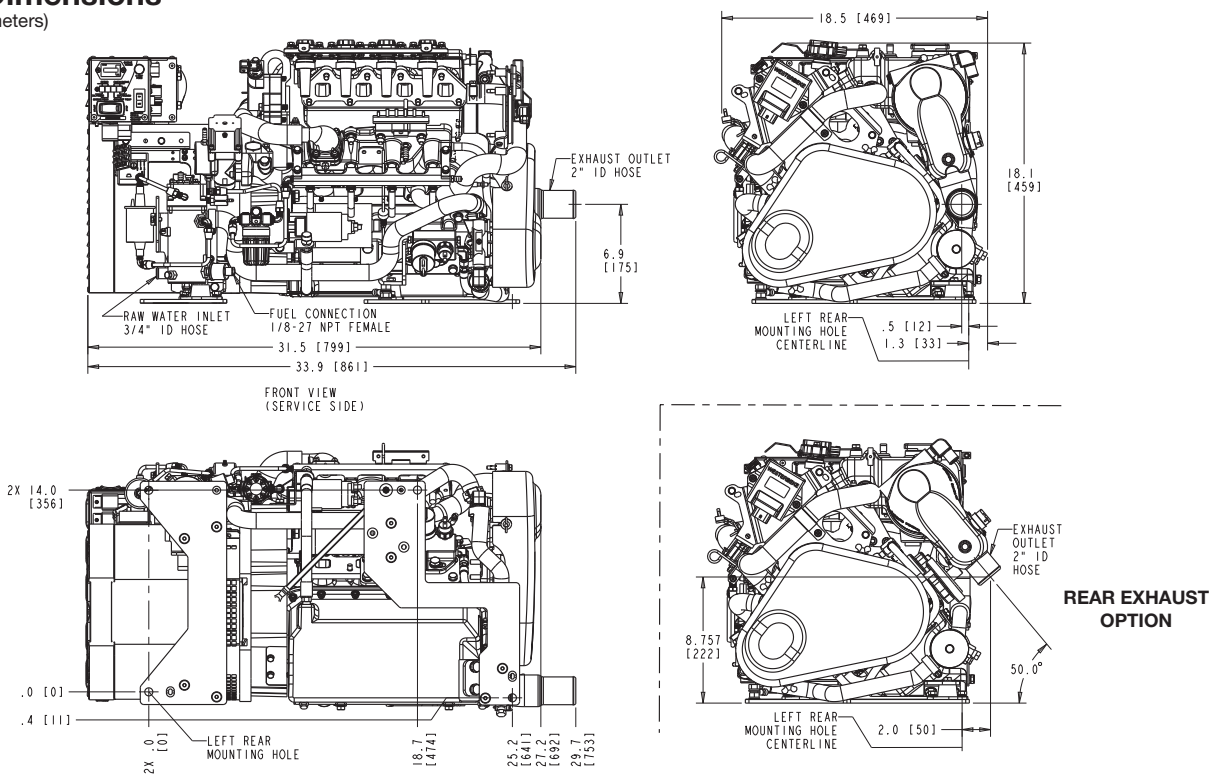
Cylinder head	Aluminum
Cylinder block	Cast iron
Crankshaft	Forged crankshaft, four main bearings
Valves	Overhead, rotating type
Fuel system	Multiport EFI
Cooling system	Fresh water-cooled with heat exchanger
Exhaust manifold	Cast aluminum, fresh water-cooled

Optional Equipment

- Remote start-stop controls
- Remote lube oil filter
- "A" on-board spare parts kit; "B" extended cruising spare parts kit
- Hydro-hush muffler and fittings
- Anti-siphon valve with 3/4 inch stainless loop
- Ship-shore switch; Auxiliary DC power adapter
- 90˚ water injected exhaust elbow
- Ventilated enclosure

Basic Dimensions

Inches (millimeters)



REAR EXHAUST OPTION

Note: Outer envelope and hose location dimensions ± .375 (9.6)

Drawings are for reference only and should not be used for installation. Detailed installation drawings are available upon request.