Multiport Electronic Fuel Injection

Low-CO, Low-Profile, Low-Speed
The 5.0 MCG 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 5.0 MCG combined with a heavy duty industrial base engine contribute to a longer lasting more reliable product.

Multiport EFI and Returnless Fuel System
The 5.0 MCG 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 3-cylinder engine with a balance shaft that virtually eliminates vibration, the 5.0 MCG is an extremely smooth running 5.0kW. The engine also operates at an electronically controlled 1800 rpm for exceptionally quiet operation. In comparison, 3600 rpm engines are generally noisier than their 1800 rpm counterparts and require sound shields to attain similar noise levels.

Five Year Limited Warranty
The 5.0 MCG 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. Established in 1937, Westerbeke is committed to providing its customers with quality products and unequaled after sales support.

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
- 90° water injected exhaust elbow
- Belt-driven raw water pump
- Vibration isolators
- Lube oil drain hose
- Belt guard
- Operators’ manual and parts list

5.0 MCG 60Hz
4.2 MCG 50Hz
Specifications

Number of cylinders: 3 Cylinder, vertical in-line
Type: 4 cycle
Displacement: 40.3 cu. in. (.66 liter)
Bore and stroke: 2.56” x 2.61” (65.0mm x 66.3mm)
Compression ratio: 9.8:1
Rated RPM: 1800@60Hz/1500@50Hz
HP @ 1800/1500 rpm: 8.3/7.0
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: 334 lbs (151.5 kg)
Combustion system: Semi-spherical type
Aspiration: Naturally aspirated
Lubrication system: Forced pump
Cooling system: 3.5 quarts (3.3 liter)
Full consumption (approx.): 1800 rpm 1500 rpm
100% load GPH (LPH): .74 (2.79) .63 (2.37)
75% load GPH (LPH): .59 (2.22) .50 (1.91)
50% load GPH (LPH): .46 (1.74) .39 (1.47)
25% load GPH (LPH): .36 (1.35) .28 (1.06)
Governor: Electronic
Lube oil filter: Full flow, spin on element

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

Basic Dimensions

Inches (millimeters)

Electrical Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Volts</th>
<th>Amps</th>
<th>Hertz</th>
<th>Phase</th>
<th>Wire</th>
<th>Power Factor</th>
<th>KW</th>
<th>RPM</th>
<th>Start</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 MCG-614</td>
<td>120</td>
<td>41.6</td>
<td>60</td>
<td>1</td>
<td>4</td>
<td>1.0</td>
<td>5.0</td>
<td>1800</td>
<td>Remote</td>
</tr>
<tr>
<td>4.2 MCG-514</td>
<td>230</td>
<td>18.2</td>
<td>50</td>
<td>1</td>
<td>4</td>
<td>1.0</td>
<td>4.2</td>
<td>1500</td>
<td>Remote</td>
</tr>
</tbody>
</table>

Lubricant capacity: 3.0 quarts (2.8 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: 105 amps @ 70 degrees F
Electrical system: 12 volts DC, negative ground

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

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Specifications Subject to Change without Notice.

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