Economic Operation
All Mitsubishi engines are designed and built to deliver performance as well as fuel efficiency. From the combustion chamber design to the fuel injection technology, to the turbocharger and the advanced cooling system...everything has been perfectly balanced to provide a highly economic operation and optimum fuel consumption across the entire power curve.

Easy Maintenance
With Mitsubishi’s S16R marine engine, maintenance is very easy. Each cylinder has its own cylinder head and the engine has large inspection covers on the crankcase. No auxiliary component requires separate lubrication, whether it’s the fuel injection pump, the governor, the water pump or the turbocharger.

Approved by All Major Classification Societies
At our ISO certified manufacturing facilities, every Mitsubishi S16R diesel engine is built to meet the highest quality standards. All major marine classification societies, as well as the national shipping authorities, recognize the precision of Mitsubishi’s manufacturing procedures.

Environmental Compatibility
Mitsubishi offers a full compliment of engines meeting both IMO and EPA emissions standards.

Local Support Around The Globe
A team of support specialists is available worldwide to ensure that service and maintenance are performed without delay.
### Type
4-cycle, watercooled, turbocharged diesel engine
Y1MPTA with aftercooler, cooled by engine jacket water
Y1MPTK with intercooler, cooled by (sea) water of max 32°C

### Combustion System
Direct Injection

### Configuration
60°V, 16 Cylinder

### Bore x Stroke - inches (mm)
6.69 (170) x 7.09 (180)

### Total Displacement - in³ (ltr)
3989 (65.37)

### Compression Ratio
14.0 : 1

### Rotation
SAE Standard (Counter-Clockwise Viewed from Flywheel End)

### Starting System
Electric Motor, 24 Volt - 7.5kW (x2)

### Flywheel
SAE 21

### Flywheel Housing
SAE #00

### Fuel Oil
ASTM, D975 No. 1-D, No. 2-D

### Lubricating Oil
API Service Grade ‘CD’ Class

### Dry Weight (lbs.)
<table>
<thead>
<tr>
<th></th>
<th>14.685</th>
<th>14.950</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Marine Auxiliary</td>
<td>Hp (kWm) @ RPM</td>
<td>Hp (kWm) @ RPM</td>
</tr>
<tr>
<td></td>
<td>1984 (1480) @ 1500</td>
<td>2011 (1500) @ 1500</td>
</tr>
<tr>
<td></td>
<td>2131 (1590) @ 1800</td>
<td>2265 (1690) @ 1800</td>
</tr>
</tbody>
</table>

### Output Marine Propulsion

#### Heavy Duty
<table>
<thead>
<tr>
<th>Hp (kWm) @ RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1568 (1170) @ 1600</td>
</tr>
<tr>
<td>1676 (1250) @ 1600</td>
</tr>
</tbody>
</table>

#### Medium Duty
<table>
<thead>
<tr>
<th>Hp (kWm) @ RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1729 (1290) @ 1650</td>
</tr>
<tr>
<td>1850 (1380) @ 1650</td>
</tr>
</tbody>
</table>

#### Light Duty
<table>
<thead>
<tr>
<th>Hp (kWm) @ RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2038 (1520) @ 1800</td>
</tr>
<tr>
<td>2158 (1610) @ 1800</td>
</tr>
</tbody>
</table>

### Dimensions in millimeters (1 inch = 25.4mm)

### Outside Dimensions

General Dimensions for reference only, not to be used for installation. See specific model drawings for further details.

### Standard Engine Equipment

#### Fuel System
Flexible fuel supply and return hoses, fuel feed pumps, MHI fuel injection pumps, single-wall fuel injection lines, fuel injectors, overflow valve.

#### Lubricating Oil System
Wet type oil pan, oil pressure pump (gear driven), full-flow lubrication oil filters, by-pass filter, oil cooler with thermostat, piston cooling though oil spray nozzles.

#### Cooling System
Fresh water pump, thermostats with bypass (Sea or Fresh water cooling must be specified prior to ordering)

#### 24 Volt Electric System Earth Floated
Starter motors (2 x 7.5kW), battery charging alternator (35 amp), energize-to-stop (ETS) stop solenoid

#### Air Intake and Exhaust System
Mitsubishi turbochargers with vertical exhaust outlet, air inlet silencers with pre-cleaner, inlet air aftercoolers or intercoolers, inlet manifolds, dry exhaust manifold.

### General
Hydraulic Woodward PSG governor with oil supply system, mounting brackets, flywheel and housing SAE standard, torsional vibration damper, parts catalog and owners manual

Mitsubishi Engine, their respective logos as well as corporate and product identity used herein, are trademarks of Mitsubishi and may not be used without written permission.