Diesel Engines Series 4000
for Marine Applications
Maximum 1DS
2040 - kW
2773 - mhp
2735 - bhp

Compliant
with MARPOL 73/78 (IMO)
Annex VI NOx Limits

Engine Specifications

<table>
<thead>
<tr>
<th>Version</th>
<th>12v4000 M90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>48.8 liters (2978 cu in)</td>
</tr>
<tr>
<td>Bore and Stroke</td>
<td>165 mm x 190 mm (6.50 in. x 7.50 in.)</td>
</tr>
<tr>
<td>Description</td>
<td>Sequential turbocharged and charge air cooled</td>
</tr>
<tr>
<td>Governor</td>
<td>MDEC</td>
</tr>
<tr>
<td>Port Model</td>
<td>T1227M01</td>
</tr>
<tr>
<td>Starboard Model</td>
<td>T1227M00</td>
</tr>
</tbody>
</table>

Standard Power Rating

<table>
<thead>
<tr>
<th>Air Temp. 25°C</th>
<th>kW</th>
<th>mhp</th>
<th>bhp</th>
<th>rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sea Water Temp. 25°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated Power</td>
<td>2040</td>
<td>2773</td>
<td>2735</td>
<td>2100</td>
</tr>
<tr>
<td>Rating Conditions</td>
<td>ISO 3046</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard Boat Profile

100% Power, 10% Time
70% Power, 70% Time
<10% Power, 20% Time

Typical applications
• Privately - owned yachts
Rating Definition - Maximum 1DS
The marine maximum rating applies to high performance application where speed is important and overall load factors are low. Maximum continuous cruising RPM is 1900 and full power is limited to 10% (average) of operating time. This rating is normally reserved for privately-owned yachts in non-revenue applications.

Dimensional Information

All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized Detroit Diesel Corporation representative. Typical marine transmission shown.

Standard Equipment
Main Engine - Sequential and wastegate turbocharging; watercooled exhaust components; flywheel housing size SAE #00; two-part polyurethane Glacier white paint and chrome valve covers are standard on pleasurecraft engines
Fuel System - Electronic unit pump injection system; secondary fuel filter mounted on front of engine
Engine Oil System - Dual oil filters to be mounted on engine with diverter valve
Engine Cooling System - Titanium plate modular heat exchanger system with integral fuel cooler; gear-driven self-priming raw water pump with 3" hose inlet; engine block heater (120V/1500W); coolant recovery bottle
Air Inlet System - Direct mounted turbochargers; dual intake air filters and silencers with closed crankcase breather system.
Electrical - Starter: 24V, 2-pole isolated ground; Alternator: 24V/100 amp, 2-pole isolated ground, belt driven
Engine Mounting - Engine mounts with isolators
Exhaust Connection System - (2) Horizontal dry outlet flanges

Optional Equipment
Fuel System - Double wall fuel lines for society classification; SeaPro 600 primary fuel filter/water separator with electric priming pump
Marine Gear Transmissions - Available in numerous ratio's & configurations
Electronic Engine Monitoring & Controls - Available
Exhaust Connection System - (2) Exhaust bellows

For more information contact your MTU or DDC distributor. All Detroit Diesel distributors in NAFTA are authorized MTU distributors.
www.mtu-online.com / www.detroitdiesel.com / marine@detroitdiesel.com

Series 4000 is a trademark of Detroit Diesel Corporation. MTU is a registered trademark of MTU Motoren- und Turbinen-Union Friedrichshafen.
4SA410ev 0310 As technical advancements continue, specifications will change. Photograph represents a typical marine engine. Printed in U.S.A.