4 W105M

4 Stroke diesel engine, direct injection

- Bore and stroke: 105 x 130 mm
- Number of cylinders: 4 in line
- Total displacement: 4.5 litres
- Compression ratio: 18/1
- Engine rotation (ISO 1204 standard): counterclockwise
- Idle speed: 650 rpm
- Flywheel housing: SAE 3
- Flywheel: SAE 11.5”

Customer benefits

- Continuous compact power with reference performances in its category
- Global environment care with low exhaust emissions and controlled fuel consumption at any running cycle
- Simple technology with mechanical injection
- Life cycle cost efficiency with extended mean time between overhauls (MBTO)

Rated power - Fuel consumption

<table>
<thead>
<tr>
<th>Duty</th>
<th>kW</th>
<th>hp</th>
<th>rpm</th>
<th>Fuel consumption g/kWh</th>
<th>Peak torque / speed (N.m / rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P2</td>
<td>95</td>
<td>130</td>
<td>2100</td>
<td>214</td>
<td>535 / 1500</td>
</tr>
</tbody>
</table>

- Application: continuous
- Engine load variations: numerous
- Average engine load factor: 30 to 80%
- Annual working time: 3000 to 5000 h
- Time at full load: 8 h each 12 h

Power definition

Standard ISO 3046/1

<table>
<thead>
<tr>
<th>Reference conditions</th>
<th>Fuel oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature</td>
<td>Relative density</td>
</tr>
<tr>
<td>Barometric pressure</td>
<td>Lower calorific power</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>Consumption tolerances</td>
</tr>
<tr>
<td>Raw water temperature</td>
<td>Inlet limit temperature</td>
</tr>
</tbody>
</table>

- Our ratings also comply with classification societies maximum temperature definition without power derating.
- Ambient temperature: 45 °C / 113 °F
- Raw water temperature: 32 °C / 90 °F
**Standard equipment**

**Cooling system**
- Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank
- Cast iron centrifugal fresh water pump, mechanically driven
- Bronze self-priming raw water pump, mechanically driven

**Lubrication system**
- Full flow screwable oil filters
- Fresh water cooled lube oil cooler

**Fuel system**
- In-line injection pump with flanged mechanical governor
- Double wall injection bundle
- Duplex fuel filters replaceable while engine running
- Water separator

**Intake air and exhaust system**
- Insulated exhaust gas manifold
- Turbo blower with insulated turbine housing
- Low water temperature cooled intake air cooler

**Electrical system**
- Voltage: 24Vcc insulated
- Electrical starter on flywheel crown
- 55A battery charger

**Optional equipment**
- Cooling system adapted for box / keel cooling
- Connection for emergency raw water circuit
- Resilient mounts under engine
- Exhaust water injection after turbocharger
- Contact us for full list of options available

**Dimensions and dry weight** (mm / kg)

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Dry weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>973</td>
<td>323</td>
</tr>
<tr>
<td>821</td>
<td>985</td>
</tr>
<tr>
<td>650</td>
<td></td>
</tr>
</tbody>
</table>

**Performance**

P2 - 95 kW - 130 hp @2100 rpm