## N4.50 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power at crankshaft</strong></td>
<td>35.42 kW [47.5 hp]</td>
</tr>
<tr>
<td><strong>Displacement</strong></td>
<td>2.197 l [134 in³]</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>4 cylinders in line</td>
</tr>
<tr>
<td><strong>Operation type</strong></td>
<td>4 strokes Diesel</td>
</tr>
<tr>
<td><strong>Bore &amp; Stroke</strong></td>
<td>83 x 92.4 mm [3.27 x 3.64 in]</td>
</tr>
<tr>
<td><strong>Compression ratio</strong></td>
<td>22 : 1</td>
</tr>
<tr>
<td><strong>Rated speed</strong></td>
<td>2800 rpm</td>
</tr>
<tr>
<td><strong>Idling speed</strong></td>
<td>840 rpm</td>
</tr>
<tr>
<td><strong>Peak torque</strong></td>
<td>146 Nm</td>
</tr>
<tr>
<td><strong>Peak torque speed</strong></td>
<td>1800 rpm</td>
</tr>
<tr>
<td><strong>Engine base</strong></td>
<td>Kubota</td>
</tr>
<tr>
<td><strong>Fuel system</strong></td>
<td>Mechanical Indirect injection</td>
</tr>
<tr>
<td><strong>Air intake</strong></td>
<td>Natural</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>Closed cooling with heat exchanger</td>
</tr>
<tr>
<td><strong>Max mounting angle</strong></td>
<td>15° Front down 15° Front up</td>
</tr>
<tr>
<td><strong>Alternator</strong></td>
<td>12 Volt 120 Amp</td>
</tr>
<tr>
<td><strong>Rating</strong></td>
<td>M4</td>
</tr>
<tr>
<td><strong>Emission compliance</strong></td>
<td>RCD 2013/53/EU EPA marine Tier 3 BSO2</td>
</tr>
<tr>
<td><strong>Dry weight with TTMC35A</strong></td>
<td>229 kg [504 lbs]</td>
</tr>
</tbody>
</table>
N4.50
35.42 kW [47.5 hp] at 2800 rpm

TECHNICAL DESCRIPTION

ENGINE BLOCK
- 4 Cylinders in line
- Gear-driven valve train
- Water cooled exhaust manifold

FUEL SYSTEM
- Mechanical governor
- Cam driven in-line injection pump
- Fuel feed pump with hand primer
- Fuel filter

LUBRICATION SYSTEM
- Replaceable full-flow oil filter
- Oil dipstick
- Oil cooler

COOLING SYSTEM
- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

ELECTRICAL SYSTEM & INSTRUMENTATION
- 12 V Electrical system
- 12 V / 120 A alternator
- Electric starter motor
- Electric stop function
- Instrumentation panel, including Start/Stop, tachometer & alarms
- Extension cable harness with plug-and-play

AIR INTAKE
- Mounted air cleaner

OTHER FEATURES
- Flexible engine mounting
- Bracket for control cables

OPTIONAL EQUIPMENTS & ACCESSORIES
- Keel cooling adaptation
- Complete marine propulsion systems
- Throttle and shift controls
- Additional instrumentation, Flying bridge extension harness
- Polyester frame (Sail Drive version)
- Engine mounting adaptation
- Two pole electrical system
- Water boiler systems
- Stuffing box connections
- Complete fuel systems
- Complete exhaust systems
- SOLAS approved version

RATINGS
- Up to 3000 annual operating hours
- Load factor up to 40%
- Full power for no more than 1 hour out of each 12 hours of operation. The remaining time must be at, or below cruising speed

TRANSMISSIONS

SHAFT LINE
- TTM345A - TM345H
- TMC260
- TMC60
- TTM35A - TTMC35P
- ZF25 - ZF25M

SAIL DRIVE
- Sail Drive
- Contact your Nanni representative for more details and availability about transmissions types and models range.

PERFORMANCE CURVES

POWER AT CRANKSHAFT

FUEL CONSUMPTION

DIMENSIONS WITH TTMC35A