## YC4F MARINE ENGINE
### 63-85kW (90-115Ps)

**Model**
- **Craft engine**
  - YC4F90L-C20 63kW(90Ps)@ 2800rpm
  - YC4F100-C20 73kW(100Ps)@295 0rpm
  - YC4F115G31 85kW(115Ps)@310 0rpm

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### SPECIFICATION
#### L-4,4-Stroke-Cycle-Diesel

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emissions</td>
<td>/</td>
</tr>
<tr>
<td>Displacement</td>
<td>2.66L</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>16.3:1</td>
</tr>
<tr>
<td>Rated engine speed</td>
<td>2800-3100rpm</td>
</tr>
<tr>
<td>Bore</td>
<td>92mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>100mm</td>
</tr>
<tr>
<td>Firing order</td>
<td>1-3-4-2</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged/Intercooled</td>
</tr>
<tr>
<td>Governor</td>
<td>Mechanical</td>
</tr>
<tr>
<td>Cooling System</td>
<td>Fresh water forced closed circulation cooling</td>
</tr>
<tr>
<td>Weight, Net Dry(approx)</td>
<td>420kg</td>
</tr>
<tr>
<td>Refill Capacity</td>
<td></td>
</tr>
<tr>
<td>Cooling System (engine only)</td>
<td>20L</td>
</tr>
<tr>
<td>Lube Oil System(refill)</td>
<td>10L</td>
</tr>
<tr>
<td>Oil Change Interval</td>
<td>250hrs</td>
</tr>
<tr>
<td>CG grade or above</td>
<td></td>
</tr>
<tr>
<td>Rotation</td>
<td>Counterclockwise(from flywheel end)</td>
</tr>
<tr>
<td>Flywheel and Flywheel housing</td>
<td></td>
</tr>
<tr>
<td>Flywheel housing</td>
<td>Non-standard</td>
</tr>
<tr>
<td>Flywheel</td>
<td>Non-standard</td>
</tr>
<tr>
<td>Flywheel Teeth</td>
<td>125</td>
</tr>
<tr>
<td>Maximum Exhaust Back Pressure</td>
<td>10kPa</td>
</tr>
<tr>
<td>Dimension(LxWxH)</td>
<td>1000 × 580 × 840/866 × 623 × 738(YC4F90L-C20)</td>
</tr>
</tbody>
</table>

Images shown may not reflect actual engines
STANDARD ENGINE EQUIPMENT

Air Inlet System
- Intercooler- sea water, corrosion resistant
- Air cleaner
- Turbocharger

Exhaust System
- Water cooling exhaust pipe
- Turbocharger
- Dry Elbow
- Flexible fitting, exhaust corrugated pipe

Cooling System
- Thermostat
- Gear-driven centrifugal sea water pump
- Belt -driven centrifugal water pump
- Heat exchanger with expansion tank
- Engine oil cooler

Lube System
- Oil pump, gear driven
- Oil cooler
- Oil filter
- Oil filler
- Dipstick
- Crankcase breather
- Deep center sump oil pan

Fuel System
- Fuel filter
- Oil water separator
- Fuel pump
- Fuel transfer pump
- Fuel cut solenoid valve

Control System
- Mechanical governor
- Instrumentation(Digital LCD type)
  - engine speed
  - engine oil pressure and temperature;
  - engine jacket water temperature;
  - on/off key switch;
  - emergency stop button;
  - over speed shutdown notification lights

Starting/Charging System
- Electronic starting motors(12V/2.8kW)
- Charging alternator(14V/50A)

Certification
- ISO Certification
  - Factory-designed systems built at Yuchai
  - ISO/TS16949:2009 certified facilities

General
- Crankshaft vibration damper
- Crankshaft pulley
- Lifting eyes
- Front support leg, Rear support leg
- Workshop manual
- Parts Catalog
- Engine protective cover for shipping

OPTIONAL EQUIPMENT

Fuel System
- Fuel leakage gathering tank(compulsory for CCS/BV)

Certification
- Engine Certification
  - CCS

General
- SAENo.4 flywheel housing & SAENo.10 flywheel optional
- Fumigation packing box (compulsory for export)