

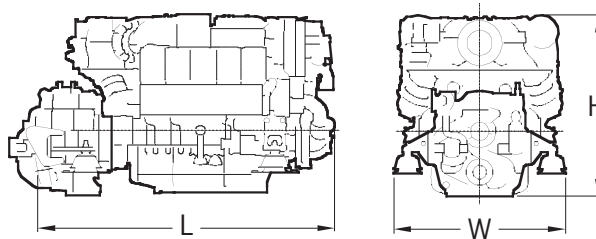
Diesel Engines 8V/10V 2000 M92

for Fast Vessels with Low Load Factors (1DS)



Dimensions and Masses

| 2000 M92 - with gearbox | Dimensions (LxWxH) mm (in) | Mass, dry kg (lbs) |
|-------------------------|---------------------------------|--------------------|
| 8V/ZF 550 | 2055x1130x1200 (80.9x44.5x47.2) | 2360 (5203) |
| 10V/ZF 2000 | 2255x1130x1230 (88.8x44.5x48.4) | 2660 (5864) |



Typical applications: Fast yachts, fast patrolboats, police craft and fire-fighting vessels

| Engine Model | 8V 2000 M92 | 10V 2000 M92 |
|---|---|---|
| Rated power ICFN kW (bhp) | 810 (1085) | 1015 (1360) |
| Speed rpm | 2450 | 2450 |
| No. of cylinders | 8 | 10 |
| Bore/stroke mm (in) | 135/156 (5.3/6.1) | 135/156 (5.3/6.1) |
| Displacement, total l (cu in) | 17.9 (1093) | 22.3 (1361) |
| Flywheel housing | SAE 1 | SAE 1 |
| Gearbox type | ZF 550 A i = 1.2 – 2.5 | ZF 2000 A i = 1.5 – 2.5 |
| Optimization of exhaust emissions ¹⁾ | IMO II compl./EPA 2/EU IIIA ²⁾ | IMO II compl./EPA 2/EU IIIA ²⁾ |

¹⁾ IMO – International Maritime Organization (MARPOL)
EPA – US Marine Directive 40 CFR 94
EU – Nonroad Directive 97/68/EC

²⁾ Recognition through the RheinSchUO (CCNR II)



| Performance and Fuel Consumption | | 8V 2000 M92 | | | | 10V 2000 M92 | | | |
|--|-------|-------------|-------|-------|------|--------------|-------|-------|------|
| Speed | rpm | 2450 | 2200 | 2000 | 1200 | 2450 | 2200 | 2000 | 1200 |
| Maximum power | kW | 810 | 810 | 775 | 375 | 1015 | 1015 | 975 | 475 |
| | bhp | 1085 | 1085 | 1040 | 505 | 1360 | 1360 | 1310 | 635 |
| Power on propeller curve(n ³) | kW | 810 | 590 | 445 | 95 | 1015 | 740 | 550 | 120 |
| | bhp | 1085 | 790 | 595 | 125 | 1360 | 990 | 740 | 160 |
| Fuel consumption on propeller curve ¹⁾ | g/kWh | 216 | 212 | 217 | 223 | 215 | 218 | 215 | 228 |
| | l/h | 210.8 | 150.7 | 116.3 | 25.5 | 262.9 | 194.4 | 142.5 | 33.0 |
| | gal/h | 55.7 | 39.8 | 30.7 | 6.7 | 69.5 | 51.3 | 37.5 | 8.7 |

¹⁾ Tolerance +5% per ISO 3046, Diesel fuel to DIN EN 590 with a min L.H.V. of 42800kJ/kg (18390 BTU/lb)

| Standard Equipment | |
|--------------------------|---|
| Starting system | Electric starter 24 V |
| Auxiliary PTO | Charging generator, 80A, 28V, 2 pole |
| Oil system | Gear driven lube oil pump, lube-oil duplex filter with diverter valve, lube-oil heat exchanger, handpump for oil extraction |
| Fuel system | Fuel feed pump, fuel hand pump, fuel pre-filter, fuel main filter with diverter valve, on-engine fuel oil cooler, HP fuel pump, jacketed HP fuel lines, injection nozzles (CR system), flame proof hose lines, leak-off fuel tank level monitored |
| Cooling system | Coolant-to-raw water plate core heat exchanger, self priming centrifugal raw water pump, gear driven coolant circulation pump |
| Combustion air system | Sequential turbocharging with 2 water-cooled exhaust-gas turbochargers, on-engine set of combustion-air filters |
| Exhaust system | Triple-walled, liquid-cooled, on-engine exhaust manifolds, single centrally located exhaust outlet, 1 exhaust bellows vertical discharge |
| Mounting system | Resilient mounts at free end |
| Engine management system | Engine and gearbox control and monitoring system (ADEC) |

| Optional Equipment | |
|---------------------------|--|
| Auxiliary PTO | Charging generator, 140A, 28V, 2 pole, bilgepump, on-engine PTOs |
| Fuel System | Duplex fuel pre-filter |
| Cooling System | Coolant preheating system, integr. seawater gearbox piping |
| Exhaust System | 1 exhaust bellows horizontal discharge |
| Mounting System | Resilient mounts at driving end |
| Engine Management System | In compliance with Classification Society Regulations (EMU + MEU) |
| Monitoring/Control System | smartline, blueine, bluevision |
| Power Transmission | Torsionally resilient coupling |
| Gearbox Options | Reverse reduction gearbox, el. actuated, gearbox mounts, trolling mode for dead-slow propulsion, free auxiliary PTO, hydraulic pump drives |
| Classification | ABS, BV, CCS, DNV, GL, KR, JG, LR, NK, RINA |

> Power definition according ISO 3046

> Intake air depression 15 mbar/Exhaust back pressure 30 mbar

> Power reduction at 45°C/32°C: none

Specifications are subject to change without notice. All dimensions are approximate. For complete information refer to installations drawing. For further information consult your MTU distributor/dealer.

> Intake air temperature 25°C/Sea water temperature 25°C

> Barometric pressure 1000 mbar