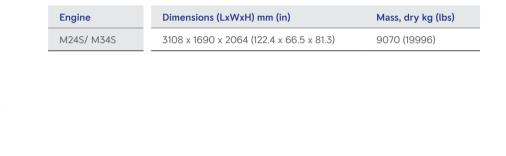


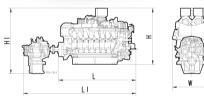
Marine

DIESEL ENGINES 16V 4000 M24S/M34S

for on-board power generation and diesel-electric drives in continuous operation (3A/3B)







Optional equipment and finishing shown. Standard may vary.

| Engine type | | 16V 4000 M24S | 16V 4000 M34S |
|-------------------------|-----------|-------------------|-------------------|
| Rated power ICFN | kW | 1685 | 1999 |
| | (bhp) | (2260) | (2681) |
| Speed | rpm | 1800 | 1800 |
| Frequenz | Hz | 60 | 60 |
| No. of cylinders | | 16 | 16 |
| Bore/stroke | mm (in) | 170/210 (6.7/8.3) | 170/210 (6.7/8.3) |
| Displacement, total | l (cu in) | 76.3 (4656) | 76.3 (4656) |
| Flywheel housing | | SAE O | SAE O |
| Exhaust optimization 1) | | IMO II/EPA 3 C | IMO II/EPA 3 C |

1) IMO - International Maritime Organisation (MARPOL) EPA - US Marine Regulation 40 CFR 1042



| Fuel consumption * | | 16V 4000 M24S | 16V 4000 M34S |
|--------------------|-------------|-------------------------|---------------|
| at 100% power | g/kWh | on request | 202 |
| | l/h (gal/h) | on request (on request) | 484.0 (127.9) |
| at 75% power | g/kWh | on request | 228 |
| | l/h (gal/h) | on request (on request) | 410.3 (108.3) |

* 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 motor 24V, 2 pole |
| Oil system | Gear driven lube oil pump, non switchable oil filter, centrifugal oil filter, lube oil heat exchanger, pump for lube oil extraction, closed crankcase ventilation |
| Fuel system | Fuel delivery pump, duplex lube fuel filter with diverter valve, common rail fuel injection system with high-pressure pump, pressure accumulator and electronic fuel injection with cylinder cutout system, jacketed HP fuel lines, flame-proof hose lines, leak-off fuel monitoring, switchable pre-filter with water separator in conjunction with switchable additional secondary filter |
| Cooling system | Gear driven coolant circulation pump, coolant-to-raw water plate core heat exchanger, engine mounted coolant expansion tank, self priming centrifugal raw-water pump, raw-water connection for generator cooling |
| Combustion air system | Engine coolant temperature-controlled intercooler, turbocharging with 2 water-cooled turbochargers, on-engine seawater-resistant air filters |
| Exhaust system | Triple-walled, liquid-cooled, on-engine exhaust manifolds, 30° discharge elbow, exhaust bellows |
| Mounting system | Rigid engine mounting |
| Auxiliary PTO | Charging generator, 120A, 28V, 2 pole |
| Engine management system | Engine control and monitoring system (ADEC); engine interface module - EiM, engine mounted |
| Engine safety system | The scope of delivery for the engine fulfils SOLAS requrements for admissible surface temperature and shielding of fuel and lube oil lines |

| Optional equipment | |
|--------------------------|---|
| Starting system | Coolant preheating system; air starter |
| Oil system | Lube oil priming system, oil level monitoring, automatic oil replenishment system with basic scope of monitoring, switchable oil filter with extended scope of monitoring, automatic oil filter |
| Fuel system | Fuel conditioning system with water separator |
| Cooling system | Engine version for separate heat exchanger |
| Combustion air system | Intake air silencer |
| Exhaust system | 90° discharge elbow |
| Engine mounting | Resilient engine mounting |
| Auxiliary PTO | Bilgepump, PTOs at free end of engine |
| Engine management system | Expansion in compliance with extended scope of monitoring (individual exhaust temperature monitoring) |
| Classification | ABS, BV, DNV, GL, LR including necessary extensions to scope of supply |

Intake air temperature 25°C/sea water temperature 25°C
Barometric pressure 1000 mbar
Specifications are subject to change without notice.
All dimensions are approximate, for complete information refer
to installation drawing. For further information consult your

mtu distributor/dealer.