



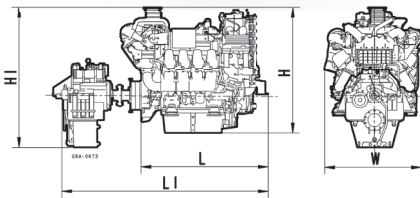
## Marine

# DIESEL ENGINES 8V 4000 M24S

for on-board power generation and diesel-electric drives



Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
M24S	2386 x 1613 x 1972 (93.9 x 63.5 x 77.6)	5710 (12588)



Optional equipment and finishing shown. Standard may vary.

Engine type		8V 4000 M24S
Rated power ICFN	kW	895
	(bhp)	(1200)
Speed	rpm	1800
Frequenz	Hz	60
No. of cylinders		8
Bore/stroke	mm (in)	170/210 (6.7/8.3)
Displacement	l (cu in)	38.1 (2325)
Flywheel housing		SAE O
Exhaust optimization*		IMO II/EPA 3 C

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

Fuel Consumption <sup>2)</sup>		8V 4000 M24S
at 100% power	g/kWh	215
	l/h (gal/h)	231.8 (61.0)
at 75% power	g/kWh	219
	l/h (gal/h)	176.4 (46.6)

2) 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, closed crankcase ventilation, lube oil extraction pump
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	Dry charge air manifolds, 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, vertical discharge, exhaust bellow
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 requirements 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° elbow for horizontal discharge
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

Reference conditions:

> Intake-air temperature: 25°C (77°F)

> Barometric pressure: 1000 mbar

> Altitude above sea level: 100 m (328 ft)

Customization possible. Engines illustrated in this document may feature options not fitted as standard to standard engine.