



Technical data sheet

Marine diesel engine

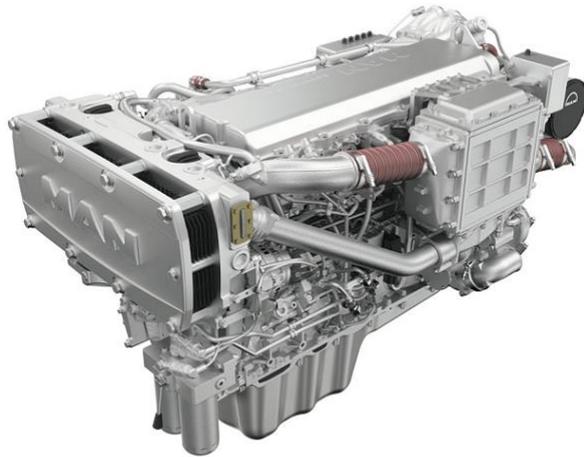
D2676LE451

17.12.2018

(Version 2)

Performance data ¹

Rated power	210	kW
Rated power	286	PS
Speed	1800	rpm
Bore/Stroke	126/166	mm
Displacement	12,42	liter
Rated torque	1114	Nm
Maximum torque	1260	Nm
at speed	1000-1600	rpm
Compression ratio [ε]	17,0	:1
Mean effective pressure	11,27	bar
Mean piston speed	9,96	m/s



Consumption data ²

Specific fuel consumption ¹	213	g/kWh
Absolute fuel consumption ¹	53	l/h
Lowest fuel consumption ³	209	g/kWh

The engine illustrated may not entirely be identical to production standard engine

Engine description

Application	Main propulsion diesel for ships with fixed pitch propeller
Operation profile	Unlimited operating hours per year at a maximum of 100 % of time at full load
Construction	Four-stroke marine diesel engine, direct injection, SAE 1 flywheel housing
Cylinders	6 cylinders in line, wet replaceable cylinder liners
Air system	Single-stage turbocharger with charge air intercooler
Cooling system	Seawater cooled charge air cooler and plate heat exchanger by rubber impeller pump
Oil system	Force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit of the engine
Fuel system	Common Rail injection system with high pressure pump and EDC control, fuel to DIN EN 590
Auxiliary PTO	PTO for hydraulic pump 16 cm ²
Alternator	Three-phase generator with rectifier and transistorized governor, 28 V, 110 A
Starting system	Solenoid-operated electric starter, 24 V, 5.5 kW
Service	Oil change interval 600 operating hours, average TBO 18.000 operating hours*
Classification	Engine according to classification requirements available => see MAN Marine Configurator

Exhaust status	IMO Tier II
-----------------------	--------------------

¹ Values at rated power

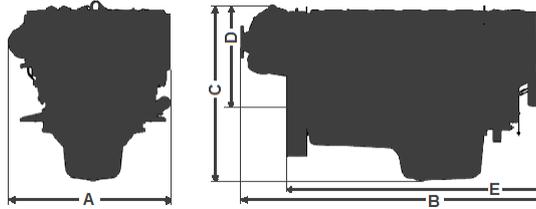
² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve

*TBO 18.000 operating hours for non or low particulate matters (PM) regulated jurisdictions (IMO, Canada, EU Stage IIIA)

D2676LE451

A - overall width.....	986 mm
B - overall length.....	1795 mm
C - overall height.....	1096 mm
D - above crank shaft....	674 mm
E - length to flywheel....	1527 mm
Engine weight (dry).....	1215 kg



Combustion parameters ¹

Intake air temperature (max.)	45 °C
Intake air vacuum (min/max)	30/60 mbar
Intake air volume flow	1210 m ³ /h

Exhaust gas temperature	345 °C
Exhaust gas volume flow	2500 m ³ /h
Exhaust gas mass flow	1390 kg/h
Exhaust back pressure (min/max)	20/80 mbar

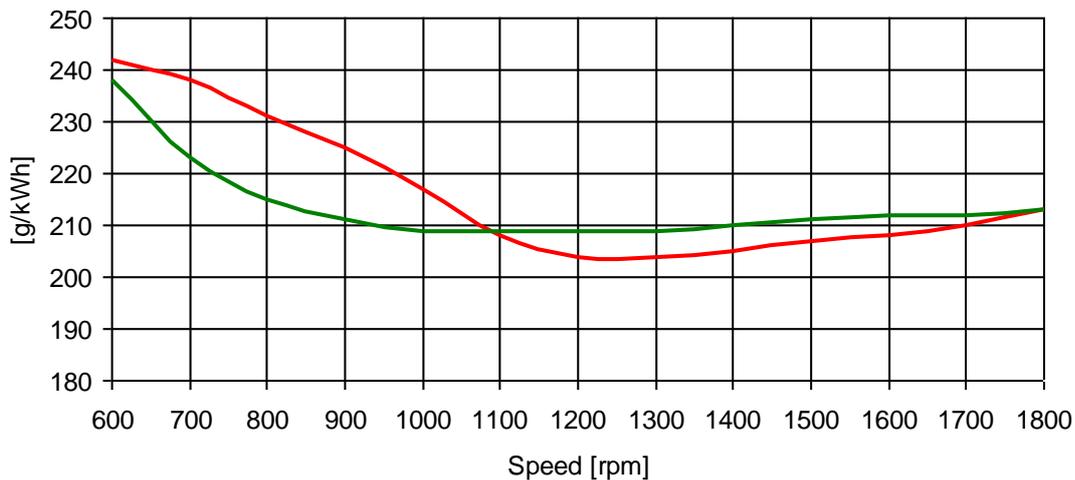
Heat balance ¹

Exhaust gas heat	135 kW
Cooling water heat	130 kW
Intercooler heat	35 kW
Radiation heat	26 kW

Noise emission (sound power) ¹

Engine surface noise (Lwa)	dB(A)
Free exhaust noise (Lwa)	dB(A)

Specific fuel consumption²



— full load curve — propeller curve

< The rated power is based on reference conditions according to ISO 3046-1 (2002) >

< Intake air temperature, max. 45°C | sea water temperature, max. 32°C >

< Barometric pressure 1000 mbar | air humidity 60% >

< Exponent for propeller curve 3 >

< Engine specifications are subjected to change without prior notice >

¹ Values at rated power

² Diesel fuel according to DIN EN 590 (tolerance +5% - ISO 3046)

³ Values on propeller curve

*TBO 18.000 operating hours for non or low particulate matters (PM) regulated jurisdictions (IMO, Canada, EU Stage IIIA)