

MAN marine engine – V8-900

Light duty operation – 662 kW (900 hp)

MAN engines have outstanding qualities

- High tractive power even at low speeds
- Powerful acceleration and rapid reaction to commands
- High performance combined with low weight
- Compact, space-saving design
- Large operation range owing to low consumption
- Low running costs
- Long service life
- Low emission values
- World-wide service network with rapid supply of spare parts

Warranty

MAN Gold Standard®

(for private use)

This seal of quality is awarded to yachts which meet proven top quality standards in the installation and tuning of the MAN engine system.

For yacht owners the MAN Gold Standard® quality certificate promises even greater safety and reliability. An extended warranty period is offered for installation to MAN's quality directives:

- 2 years full warranty on the engine
 - a further 3 years on the main components
- Detailed warranty conditions on request.

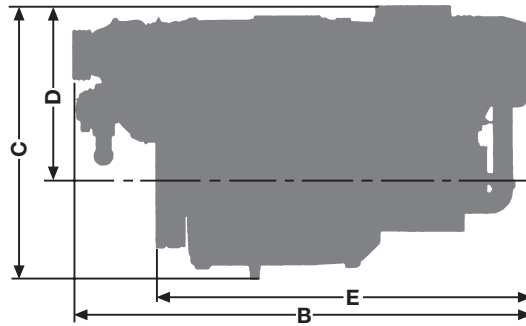
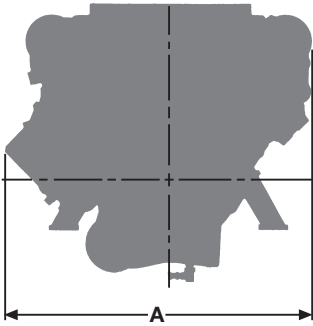
Technical description

Engine characteristic

Water-cooled 4-stroke diesel engine with direct injection with 8 cylinders in 90° V design, direct fuel injection (Common Rail), exhaust turbocharger, intercooler, boost pressure control with waste gate

Components

Cylinder heads, valve gear	Single cylinder heads with 4 valves per cylinder Replaceable valve seat inserts and valve guides
Fuel system	Common Rail direct fuel injection Fuel fine filter and pre-filter with water separator
Engine block	High-strength casting with integrated oil and water ducts and with replaceable cylinder liners
Engine lubrication	Closed system with forced feeding, oil cooling and filtering Oil filters and sumps available in different designs
Type of cooling	Heat exchanger with engine and seawater circuit
Electric/electronics	Electronic injection control (EDC) Electronic engine monitoring including diagnostic unit System voltage 24 V Alternator 55 A, alternatively 120 A
Exhaust gas status	IMO/MARPOL 73/78, EPA TIER 2, SAV, Recreational Craft Directive 94/25/EC
Quality certificates	ISO 9001 certified by TÜV
Ambient conditions	To ISO 3046
Fuel	DIN EN 590
Special equipment	On request



Technical data:

Engine model	V8-900
Bore	128 mm
Stroke	142 mm
Displacement	14,62 l
Compression ratio	15,5:1
Rotation looking on flywheel	left
Flywheel housing	SAE 1
Nominal output (light duty operation)*	662 kW (900 hp)
Rated speed	2,300 rpm
Torque at rated speed	2,749 Nm
Mean effective pressure	23,6 bar
Maximum torque	2,900 Nm
at speed	1,400 rpm
Weight	1,565 kg
Power-to-weight ratio	2,36 kg/kW
Specific fuel consumption at rated power	227 g/kWh
Fuel consumption at rated power	179 l/h
Overall width of engine (A)**	1,230 mm
Overall length of engine (B)**	1,450 mm
Overall height of engine (C)**	1,120 mm
Top of engine to crankshaft centre (D)**	730 mm
Length of engine from front end to edge of flywheel housing (E)**	1,175 mm

* Rating only for operation of private yachts.
The nominal rating is to DIN/ISO 3046/1.
100 kPa (1000 mbar) barometric pressure,
60% relative humidity, 305 K (32° C) sea water
temperature. No change in rating for intake air
temperature up to 318 K (45° C).

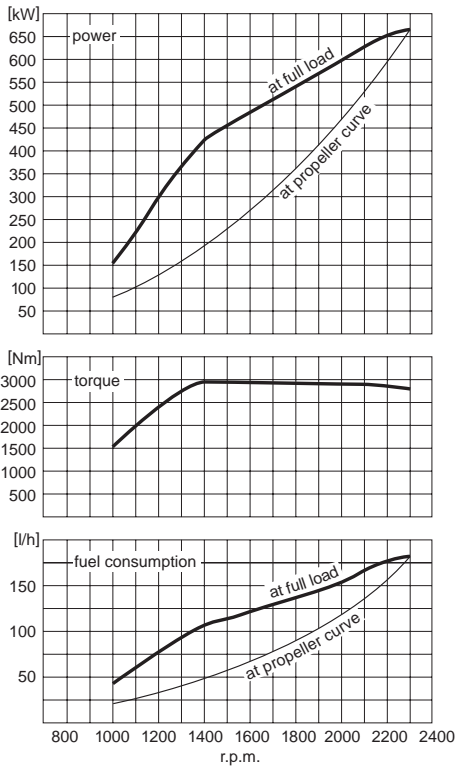
** Minimum dimensions. Precise dimensions on request.

Definition of light duty operation

Operating hours per year	≤ 1000
Percentage of time at full load	≤ 20%
Average load application	≤ 50%
Particular operating conditions	No wide-open throttle below rated speed

Typical application

- Yachts
- Sportfishing boats
- Patrol boats
- other applications on request



V8 - 900 CRM, 662 kW (900 hp)

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