



SCANIA MARINE ENGINE: IMO TIER II, IMO TIER III*, US TIER 2, EU STAGE IIIA

16-LITRE ENGINE



Engine description DI16 072M. 662 kW (900 hp)

Engine speed	2,300 rpm			
Emission compliance	IMO Tier II, IMO Tier III*, US Tier 2, EU Stage IIIA			
Rating	Patrol craft short, Patrol craft long			
No of cylinders	V8			
Working principle	4-stroke			
Displacement	16.4 litres			
Weight	1,670 kg (excluding oil and coolant)			
Oil capacity	40-48 litres (standard oil sump)			
Electric system	2-pole, 24 V DC			

The marine engines from Scania are based on a robust design with a strength optimized cylinder block containing wet cylinder liners that can easily be exchanged. Individual cylinder heads with 4 valves per cylinder promotes reparability and fuel economy.

The engine is equipped with a Scania developed Engine Management System, EMS, to ensure the control of all aspects related to engine performance. The injection system is based on electronically controlled unit injectors, which gives low exhaust emissions with good fuel economy and a high torque already at low revs.

The engine can be equipped with many accessories such as air cleaners, PTOs, transmissions and instrumentation, to suit a variety of installations.

Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Dual turbochargers, heat insulated
- Saver ring in cylinder liner
- Fuel filter and extra pre-filter with water separator
- · Oil filter, full flow
- Centrifugal oil cleaner
- Oil cooler, integrated in cylinder block
- Oil filler, in valve cover
- Deep front oil sump
- Oil dipstick, front
- Starter motor, 2-pole 7.0 kW
- Alternator, 2-pole 100 A
- Flywheel SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine suspension
- Catwalk and cover for belt transmission
- Closed crankcase ventilation
- Sea water pump
- Sea water-cooled charge air cooler
- Dual heat exchangers with expansion tanks

Patrol craft short: Intended for intermittent use where rated power is available 1 h/12 h. Between full load operations, engine rpm must be reduced at least 10% from max. obtained rpm.

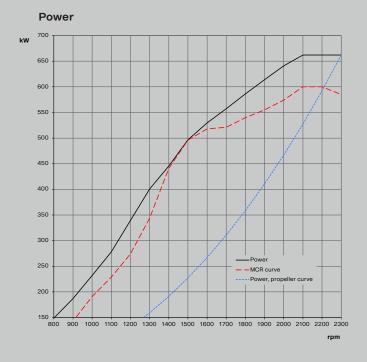
Accumulated total service time max. 1,200 h/year.

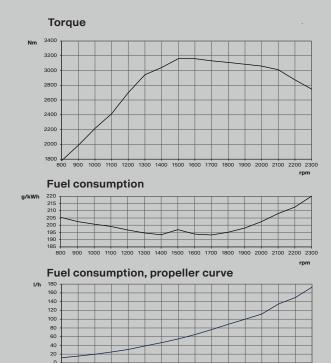
Patrol craft long: Intended for intermittent use where rated power is available 1 h/6 h. Between full load operations, engine rpm must be reduced at least 10% from max. obtained rpm.

Accumulated total service time max. 2,000 h/year.

^{*} IMO Tier III compliant when using aftertreatment system from external supplier.

Power charts



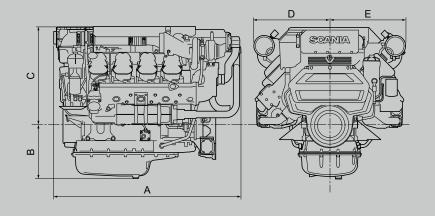


Test conditions. Air temperature 25°C. Barometric pressure 100 kPa (750 mmHg). Humidity 30%. Diesel fuel acc.to ECE R 24 Annex 6. Density of fuel 0.84 kg/dm³. Viscosity of fuel 3.0 cSt at 40°C. Energy value 42,700 kJ/kg. Power test code ISO 3046. Power and fuel values ±3%.

Dimensions

A Overall length	1,550	
B Centre of crankshaft to bottom	428	
C Centre of crankshaft to top	786	
D Centre of crankshaft to right-hand side	625	
E Centre of crankshaft to left-hand side	625	

All dimensions indicated in mm.



Technical data

	Engine speed (rpm)					
	1,200	1,500	1,800	2,100	2,300	
Gross power (kW)	339	497	586	662	662	
Gross power (hp, metric)	461	675	797	900	900	
Gross power, propeller curve (kW)	130	227	359	527	662	
Gross power, propeller curve (hp, metric)	177	309	488	717	900	
Gross torque (Nm)	2,700	3,161	3,110	3,010	2,749	
Spec. fuel consumption at full load (g/kWh)	197	197	195	208	220	
Spec. fuel consumption, propeller curve (I/h)	30.8	54.9	88.6	134.8	173.5	
Heat rejection to coolant (kW)	254	356	418	531	588	