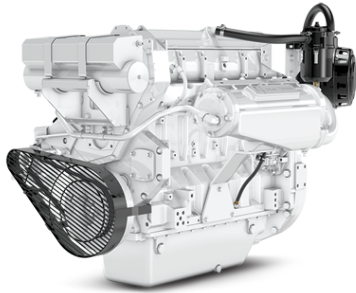


PowerTech™

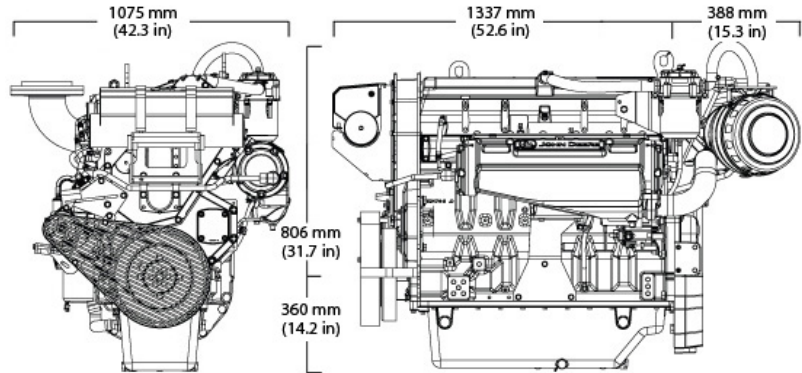
6135AFM85 Diesel Engine

Propulsion Engine Specifications



6135AFM85 shown

Dimensions



Certifications

EPA Commercial Marine Tier 3
IMO MARPOL Annex VI Compliant
NRMM (97/68/EC) as amended

General data

Model	6135AFM85	Length - mm (in)	1725 (67.9)
Number of cylinders	6	Width - mm (in)	1075 (42.3)
Displacement - L (cu in)	13.5 (824)	Height, Centerline to Top-- mm. (in)	806 (31.7)
Bore and Stroke-- mm (in)	132 x 165 (5.20 x 6.50)	Height, Centerline to Bottom-- mm. (in)	360 (14.2)
Compression Ratio	16.0 : 1	Weight, dry-- kg (lb)	1410 (3109)
Engine Type	In-line, 4- Cycle	Maximum Installed Angle	Front Up – degrees 12 Front Down – degrees 0
Aspiration	Turbocharged and air-to-coolant aftercooled		

Features and benefits

Turbocharged with Air-to-Sea Aftercooling

Cooler operation enables higher power ratings and higher efficiencies
Seawater aftercooled engines excel in higher power/speed applications

Four valves per cylinder

The 4-valve cylinder head provides excellent airflow resulting in greater low-speed torque and better transient response time.

Electronic Unit Injectors

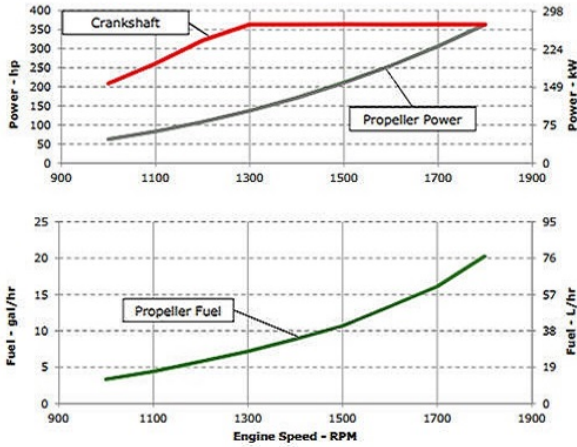
The EUI fuel system provides higher injection. It also controls fuel injection timing and provides precise control for start, duration, and end of injection.

Keel-cooled or integrated heat exchanger

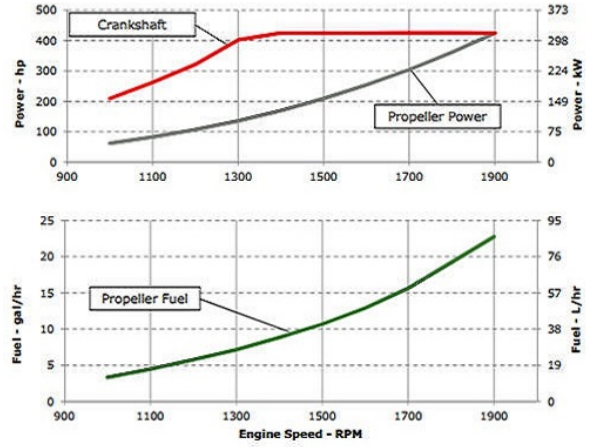
Cooler operation enables higher power ratings and higher efficiencies
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Performance curve

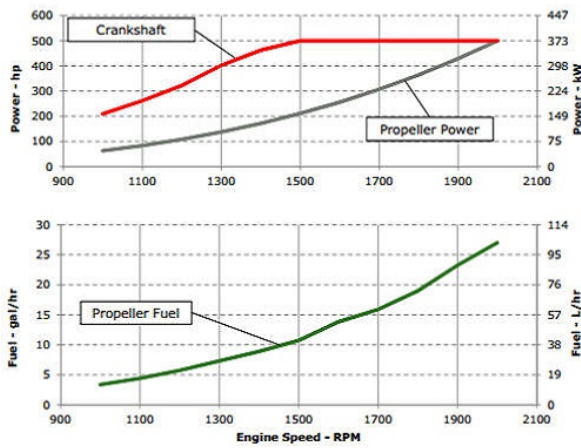
M1 Rating



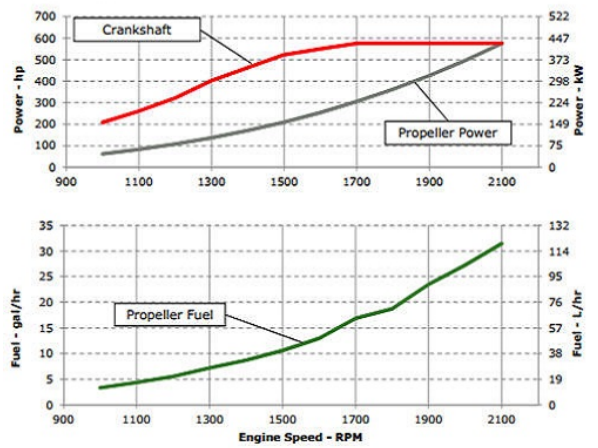
M2 Rating



M3 Rating



M4 Rating



Performance data	M4	M3	M2	M1
Rated Power - kW (hp)	429 (575)	373 (500)	317 (425)	272 (365)
Rated Speed - rpm	2100	2000	1900	1800
Low Idle Speed - rpm	600	600	600	600
Peak Torque - Nm (ft-lb)	2483 (1831)	2375 (1752)	2204 (1626)	1998 (1474)
Peak Torque Speed - rpm	1500	1500	1300	1300
Fuel Consumption - L/h (gal/hr)	118.8 (31.4)	102.2 (27.0)	86.2 (22.8)	76.7 (20.3)

M rating	M4	M3	M2	M1
Typical load factor	< =40%	< =50%	< =65%	> 65%
Typical annual usage (hr)	1,000-3,000 hr	2,000-4,000 hr	3,000-5,000 hr	Unrestricted
Typical full-power operation (hr)	1 of each 12 hr	4 of each 12 hr	16 of each 24 hr	Uninterrupted

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All values at rated speed and power with standard options unless otherwise noted. Specifications and design subject to change without notice.