

400 Series 415GM Marine Auxiliary Engine

12.3 kW (16.5 hp) gross prime power @ 1500 rpm

Based on the Perkin 400 Series, the 415GM provides compact power from a robust family of 3 and 4 cylinder diesel engines, designed to meet today's uncompromising demands within the power generation industry.

The 415GM is a compact 3-cylinder naturally aspirated diesel engine. Its premium features provide economic and durable operation for prime duty, and is designed to comply with all current emission legislation.

You can expect world-class quality from our engines and team.



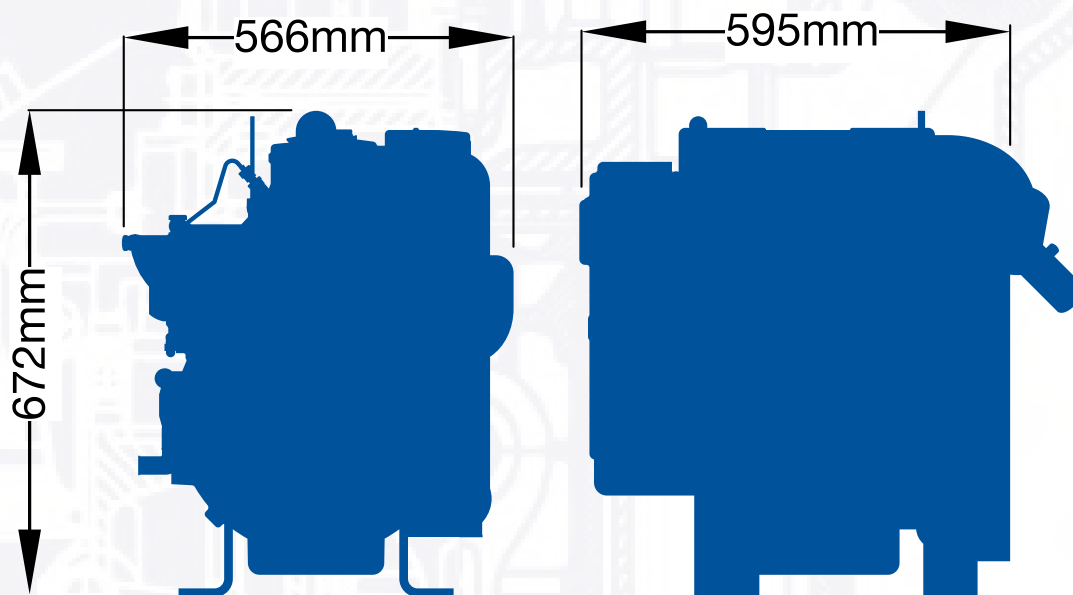
Specification

Number of cylinders	3 vertical in-line	
Bore and stroke	84 x 90 mm	3.3 x 3.5 in
Displacement	1.5 litres	91.5 in ³
Aspiration	Natural	
Cycle	4 stroke	
Combustion system	Indirect injection	
Compression ratio	22.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	6 litres	1.5 US gal
Cooling system	Water cooled	
Total coolant capacity	8 litres	2 US gal

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Engine package weights and dimensions

Length	595 mm	23 in
Width	566 mm	22 in
Height	672 mm	26 in
Weight (dry)	206 kg	454 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1500	Prime power	13.8	11.1	12.3	16.5	12.3	16.5
	110%	15.2	12.2	13.5	18.1	13.5	18.1

Rating definitions

Prime power: Power for continuous service. Overload of 10% is permitted for 1 hour in very 12 hours' operation.

For further details on definitions please contact your local Perkins distributor.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
100% power	0.8	3.7
110% power	0.9	4.2

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1.

Derating may be required for conditions outside these; consult your Perkins contact.

Generator powers are typical and are based on typical alternator efficiencies of 90% and a power factor (cos.φ) of 0.8.