

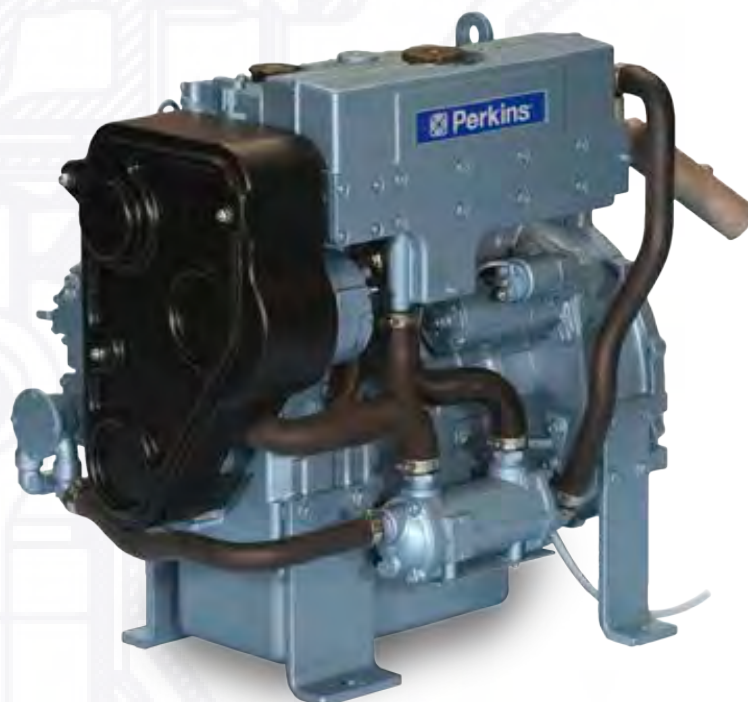
400 Series 422GM Marine Auxiliary Engine

18.4 kW (24.7 hp) gross prime power @ 1500 rpm

Based on the Perkin 400 Series, the 422GM 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 422GM is a compact 4-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.

With over 80 years heritage, you can depend on our proven standards of excellence.

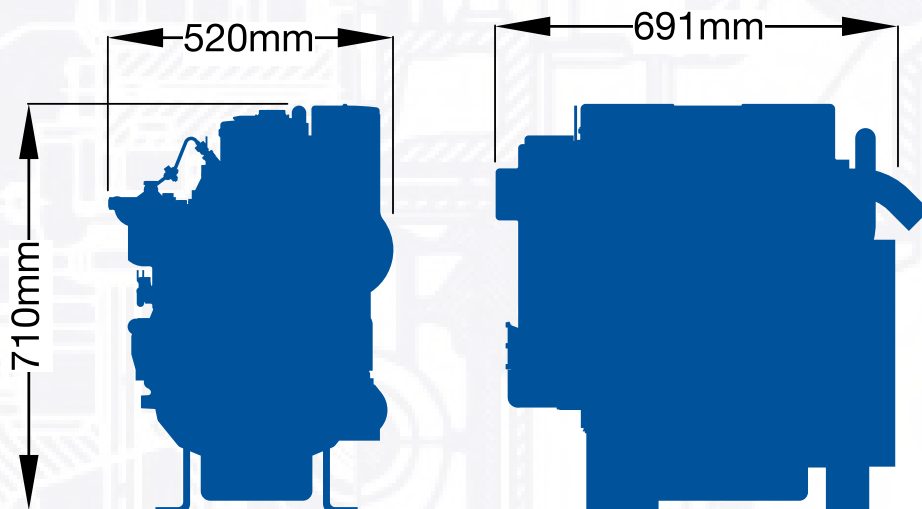


Specification

Number of cylinders	4 vertical in-line	
Bore and stroke	84 x 100 mm	3.3 x 3.9 in
Displacement	2.2 litres	135.2 in ³
Aspiration	Natural	
Cycle	4 stroke	
Combustion system	Indirect injection	
Compression ratio	23.3:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	10.6 litres	2.7 US gal
Cooling system	Water cooled	
Total coolant capacity	10 litres	2.6 US gal

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Engine package weights and dimensions

Length	691 mm	27 in
Width	520 mm	20 in
Height	710 mm	28 in
Weight (dry)	258 kg	569 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1500	Prime power	20.7	16.6	18.4	24.7	18.4	24.7
	110%	22.8	18.2	20.2	27.1	20.2	27.1

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	1.2	5.4
110% power	1.4	6.2

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.