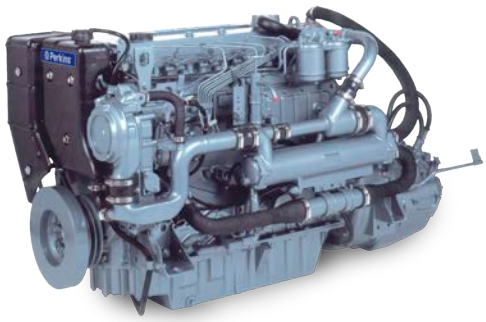
1000 Series M135 Marine Propulsion Engine

99 kW (133 hp) @ 2600 rpm



Premium engine features for reliability and durability – minimises engine down time and service costs.

Lowest cost of ownership in its class – it pays to compare running costs.

Unrivalled worldwide parts and service network – You can make the most of your machine with support from our global network.

One of the most compact packages in its class – offers boat design flexibility with easier new boat and repower installation.

Operator and environmentally friendly with low noise, rapid startability and low emissions. This is achieved with the 'QUADRAM' combustion system and fully closed breather system.

Competitive engine and parts pricing, extended service intervals and exceptionally low fuel consumption make the M135 a cost effective choice with significant owner savings over alternative engines.

Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	100 x 127 mm	3.9 x 5.0 in
Displacement	6 litres	366 in^3
Aspiration	Natural	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, from rear	
Total lubricating capacity	15 litres	3.9 US gal
Cooling system	Water cooled	
Total coolant capacity	25.3 litres	6.7 US gal

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Photographs are for illustrative purposes only and may not reflect final specification.
All information in this document is substantially correct at time of printing and may be altered subsequently.
Final weight and dimensions will depend on completed specification.

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Perkins®

THE HEART OF EVERY GREAT MACHINE

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Features and benefits

Powered by your needs

- Perkins engines can be tailored specifically for you.

  These engines offer a choice of standard build configurations to match the needs of customers for a diverse range of applications

Lower operating costs

- Service intervals 400 hours as standard and Perkins provides comprehensive warranty cover for two years, with three years on major engine components

Reliable power

- High capacity heat exchange equipment with cupro-nickel tube stack ensuring low operating temperatures for reliable and durable performance
- Perkins high manufacturing standards meet the rigorous quality standards of ISO 9000

Ease of installation

- Easy access to all routine servicing points in either single or twin installations
- Engine designed to permit a wide range of operating angles in both conventional shaft or vee – drive installations

Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world
- To find your local distributor: **www.perkins.com/distributor**

E-mail: Marine@Perkins.com **Web: www.Perkins.com/Marine**

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Marine Power

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Technical information

Benefits

- Excellent power to weight
- Ease of Installation
- Clean, quiet, smooth operation
- Excellent fuel economy
- Easy to maintain with 500hr Service interval
- Reliability

Standard features

- Fresh water heat exchanger cooled engine with gear driven self priming raw water and fresh water pumps or keel cooling adaption
- Fresh water cooled exhaust manifold
- Air intake with re-usable elements
- High inclination engine sump, top access dipstick and engine mounted sump drain pump
- Twin spin-on element lubricating oil filter
- Integral plate type engine lubricating oil cooler
- Closed breather system
- High mounted twin element fuel filter
- Thermostart cold start aid
- Manual control adaption parts
- Electric stop solenoid
- Alarm switches and warning siren

Optional equipment

- Marine transmissions (standard), Hurth HSW 450A, Newage PRM 500D
- Electrical – 12 and 24 volt insulated marine electrics
- Exhaust outlets
- Water injected outlet including high rise option
- Dry outlets with flexible expansion bellows
- Instrumentation – single and dual station instrumentation
- Power Take Off – crankshaft PTO extension shaft with pulley drive option
- Solid mounting brackets
- Flexible engine mountings with alignment shims
- Solid and flexible output couplings
- Toolkit
- On board parts kit
- Electro-magnetic bilge pumps (engine mounted)
- Calorifier connections
- Fuel pre-filter with water alarm
- Flexible fuel feed and return pipes

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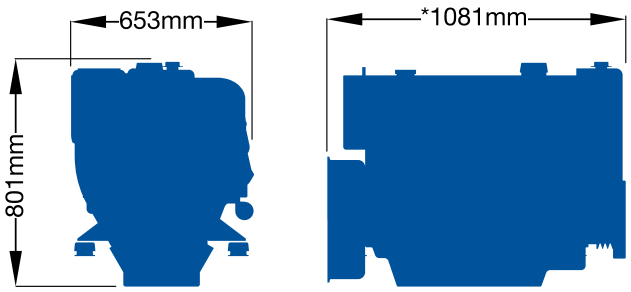

Engine package weights and dimensions		
Length	*1081 mm	43 in
Width	653 mm	26 in
Height	801 mm	32 in
Weight (dry)	559 kg	1232 lb

*Less gearbox

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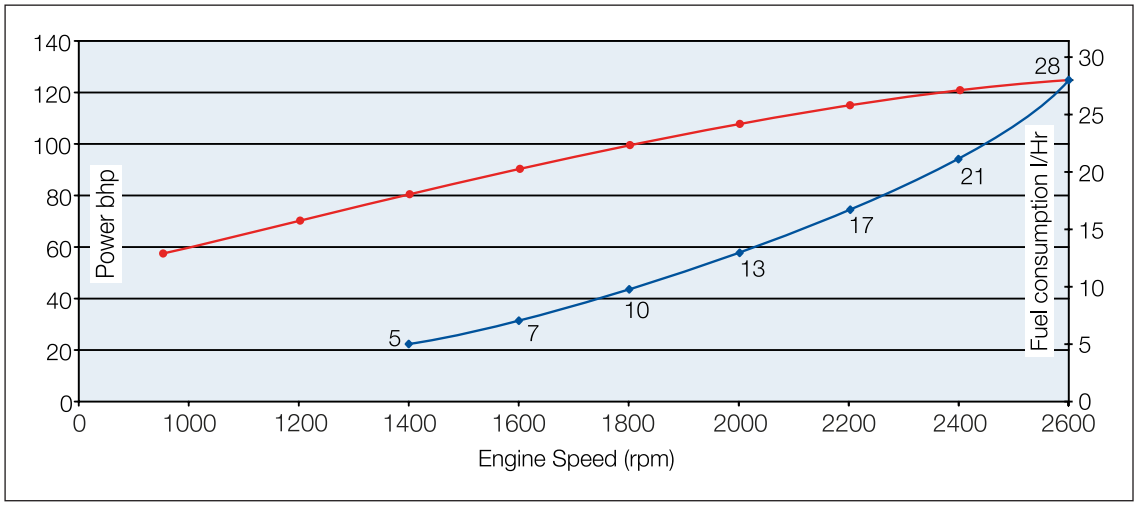

Propeller law consumption (2.8 index).

Propellers should be matched to achieve rated engine speed under fully laden boat conditions. Engine as delivered from factory will be set to produce gross (flywheel) power output with in manufacturing tolerances and run-in allowance.

Speed rpm	Power kW	Power hp	Speed rpm	Torque Nm	Torque lb·ft	Rating type
2600	99	133	1500	430	317	MD

Rating definitions

Pleasure duty: For vessels operating up to 30% load factor. This rating is intended for pleasure/non-revenue generating applications that operate less than 500 hours a year. Typical applications could include but are not limited to: High speed planning craft.

Light duty: For vessels operating up to 50% load factor. This rating is intended for applications that operate less than 1500 hours a year in variable load applications where full power is limited to 2 hours out of every 12 hours of operation and reduced power must be at or below 200 rpm of the maximum rated rpm. Typical applications could include but are not limited to: planing / semi displacement craft such as customs and police launches, sport fish charter vessels, passenger carriers, survey craft and long distance cruisers etc.

Medium duty: For vessels operating up to 60% load factor. This rating is intended for applications that operate less than 4000 hours a year. Typical applications could include but are not limited to: Semi-displacement / displacement craft such as customs and police launches, high speed commercial fishing, passenger carriers, survey craft, ferries and long distance cruisers etc.

Heavy duty: For vessels operating up to 80% load factor. This rating is intended for applications that operate less than 4000 hours a year. Typical applications could include but are not limited to: semi-displacement / displacement craft such as customs and police launches, high speed commercial fishing, passenger carriers, survey craft and ferries etc.

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

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