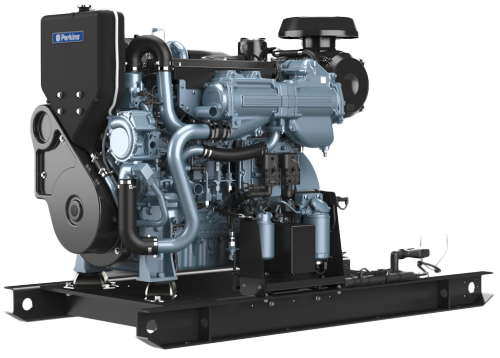
Marine Auxiliary Engine

E70 TAG1M
E70 TAG2M
E70 TAG3M
E70 TAG4M

1206 Series



Based on Perkins universally acclaimed 1206 Series and renowned throughout the power generation industry for its superior performance and reliability. The Perkins E70M is a turbocharged, charge air-cooled, six cylinder, seven litre engine, one of a family of engines ranging from 120 to 240 kWm @110% load (see rating definition).

Operator and environmentally friendly with low noise, rapid startability and low emissions.

Competitive engine and parts pricing, extended service intervals and exceptionally low fuel consumption make the E70M a cost effective choice with significant owner savings over alternative engines.

You can expect unbeatable expertise and friendly service from Perkins.

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.

World Class Product Support

With over 80 years experience, we are experts in the engines industry. At Perkins we are constantly researching, developing and investing in our products and services. Strong global support is provided through a network of over 130 distributors and service outlets in 184 countries, providing access to over 50,000 parts and exchange units 24 hours a day, 365 days a year.

Lower Operating Costs

Service intervals 500 hours as standard and Perkins provides comprehensive warranty cover for 2 years, with 3 years on major engine components.

Economic Power

Unique combustion system enables high output with lower fuel consumption and noise. Competitively priced parts provide low cost of ownership.

Durable Power

Maximum cooling efficiency is provided by a gear driven water pump. Inserted valve seats, oil spray cooled pistons and compact plate oil cooler give enhanced engine life.

Reliable Power

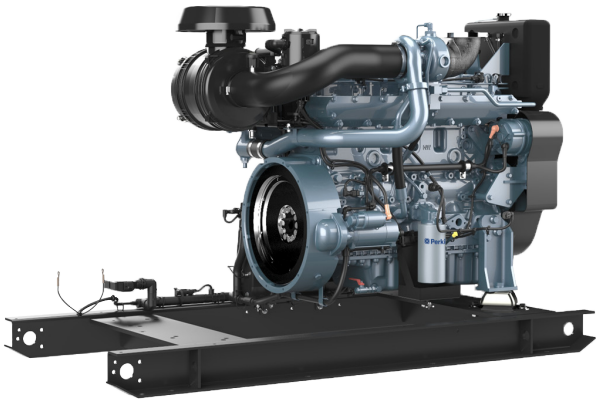
Suitable for operation in ambient temperatures up to 50°C and sea waters up to 32°C. Starting aid for temperatures down to -15°C. Approved by classification societies and marine authorities.

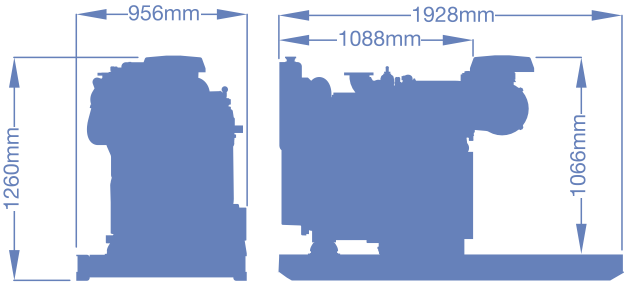
Model	Engine speed rev/min	Type of operation	Rated power (mech kW)	Typical output (net)		Typical consumption (litres/hr)
				kWe	kVa	
TAG 1M	1500	Prime power	109	100	125	29.8
		110%	120	110	137.5	31.2
TAG 2M	1500	Prime power	129	118	147.5	35.1
		110%	142	129	161.3	36
TAG 3M	1500	Prime power	164	150	187.5	42.3
		110%	180	164	205	43.5
TAG 1M	1800	Prime power	129	118	147.5	35.8
		110%	142	129	161.3	37.2
TAG 2M	1800	Prime power	164	150	187.5	42.8
		110%	180	164	205	45
TAG 3M	1800	Prime power	191	175	218.8	49.4
		110%	210	192	240	52.2
TAG 4M	1800	Prime power	218	200	250	55.6
		110%	240	220	275	59.4

These ratings represent the performance capabilities to conditions specified in ISO 3046/1:1995.
Test Conditions Air temperature 25°C (80°F) barometric pressure 100 kPa (29.5 in Hg), relative humidity 30%, maximum exhaust back pressure 15 kPa, maximum inlet restriction 5 kPa.
For operation outside of these conditions please consult your Perkins contact. Performance tolerance quoted by Perkins is ± 5%.
Electrical ratings assume a power factor of 0.8 and a generator efficiency of 93%.

Perkins®
THE HEART OF EVERY GREAT MACHINE

E70M 1206 Series





Benefits:

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

Standard Features

- Versatile base frame
- 3 Cooling options - Heat exchanger, Keel or Radiator
- Gear driven fresh and auxiliary water pumps
- Hydraulic tappets
- Air intake filter with removable element
- SAE 2 flywheel housing
- Twin pocket flywheel housing
- Water cooled turbo - suitable for gas tight applications
- Fresh water cooled exhaust manifold
- CuNi 90 -10 charge air cooler
- Electronic high pressure common rail fuel system
- Full electronic control system
- Engine harness with IP55 Customer connect for engine sensors and SAE J1939 CAN bus
- Integral plate-type engine oil cooler
- High inclination engine sump
- Crankcase ventilation system
- Base mounted primary and secondary fuel filter with integrated drip tray
- Cold start aid, ECM controlled to -15°C

Optional Equipment

- 12 or 24 volt insulated electrics
- 2 Exhaust options - Water injected or Dry
- Duplex oil and fuel filters
- Double skinned high pressure fuel pipes
- Block heaters
- Sump drain pump engine mounted
- Marine classification society (MCS) approval (TBA)
- DTO (Design to Order) - Custom design capability
- Additional Air/Electric starters

General Data	
Number of cylinders	Vertical in-line 6 cylinder
Bore and stroke	105 mm x 135 mm
Displacement	7 litres
Aspiration	Turbocharged, air to water cooled
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	16.5:1
Rotation	Anti-clockwise viewed on flywheel
Cooling system	38 litres
Operational angle	Installation vertical, 25° continuous, 30° intermittent
Dimensions	Length 1928 mm, Width 956 mm, Height 1260 mm
Dry weight	1157 kg
Wet weight	1212 kg
Final weight and dimensions will depend on completed specification	

Emissions: EPA Tier 3, IMO 2, CCNR stage 2

Rating Definitions

Prime power

Power for continuous service. Overload of 10% is permitted for 1 hour in every 12 hours' operation.

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

Distributed by

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