

4000 Series 4008TAG Diesel Engine – Electro Unit

787 kWm 1500 rev/min
784 kWm 1800 rev/min

The Perkins 4000 Series family of 8, 12 and 16 cylinder diesel engines was designed in advance of today's uncompromising demands within the power generation industry and includes superior performance and reliability.

The 4008TAG is a turbocharged, air to air charge-cooled 8 cylinder in-line diesel engine. Its premium design and specification features provide economic and durable operation as well as exceptional power to weight ratio, improved serviceability, low gaseous emissions, overall performance and reliability essential to the power generation market.

Economic power

- Individual 4 valve cylinder heads give optimised gas flows, while unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion for efficiency and economy
- Commonality of components with other engines in 4000 Series family allows reduced parts stocking levels

Reliable power

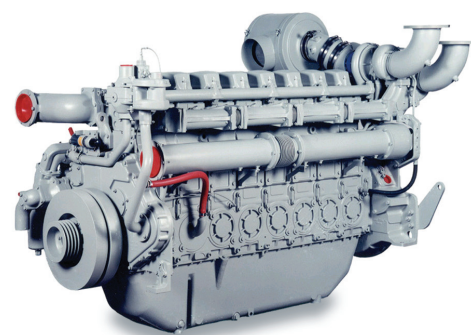
- Developed and tested using latest engineering techniques
- Piston temperatures are controlled by an advanced gallery jet cooling system
- All engines are tolerant of a wide range of temperatures without derate
- Perkins global product support is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM partnership options. So whether you are an end-user or an equipment manufacturer our engine expertise is essential to your success

Clean, efficient power

- Exceptional power to weight ratio and compact size for easier transportation and installation
- Designed to provide excellent service access for ease of maintenance
- Engines designed to comply with major international standards
- Low gaseous emissions for cleaner operation

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



Engine Speed (rev/min)	Type of Operation	Typical Generator Output (Net)		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1500	Baseload Power	672	538	595	798	566	759
	Prime Power	849	679	744	998	715	959
	Standby (maximum)	935	748	816	1094	787	1055
1800	Baseload Power	670	536	594	796	564	756
	Prime Power	846	676	742	995	712	955
	Standby (maximum)	931	745	814	1091	784	1041

The above ratings represent the engine performance capabilities guaranteed within plus or minus 3% at the reference conditions equivalent to those specified in ISO 8528/1, ISO 3046/1, BS 5514/1.

Ratings conditions: 25°C air inlet temperature, barometer pressure 100 kPa, relative humidity 30%. Please consult your distributor or the factory for ratings in ambient conditions.

Note: For full ratings please refer to Perkins Engines Company Limited. All electrical ratings are based on an average alternator efficiency and a power factor of 0.8.

Fuel specification: BS 2869 Class A1 + A2 or ASTM D975 No 2D.

Rating Definitions

Baseload Power: Power available for continuous full load operation. No overload is permitted. **Prime Power:** Power available for variable load with an average load factor not exceeding 80% of the prime power rating in any 24 hour period. Overload of 10% permitted for 1 hour in every 12 hours operation. **Standby (maximum):** Power available at variable load in the event of a main power network failure for a maximum of 500 hours per year. No overload is permitted.

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.

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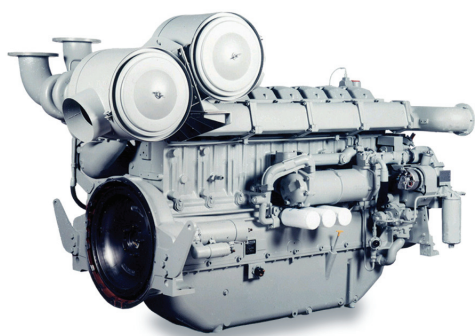
Perkins®

THE HEART OF EVERY GREAT MACHINE

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Standard Electro Unit specification

Air inlet

- Mounted air filters and turbochargers

Fuel system

- Unit fuel injectors with lift pump and hand stop control
- Electronic governor to ISO 3046 Part 4 class A1
- Full-flow spin-on fuel oil filters

Lubrication system

- Wet sump with filler and dipstick
- Full-flow spin-on oil filters
- Engine jacket water/lub oil temperature stabiliser

Cooling system

- Gear driven circulating pump
- Twin thermostats
- Crankshaft pulley for fan drive

Electrical equipment

- 24 volt starter motor and 24 volt/40 amp alternator with integral regulator and DC output
- 24 volt combined high coolant temperature/low oil pressure switch
- Overspeed switch and magnetic pickup
- Turbine inlet temperature shutdown switch
- 24 volt stop solenoid (energised to run)

Flywheel and housing

- Flywheel to SAE J620 size 18
- SAE 0 flywheel housing

Optional equipment

The following optional extras equipment is available to make up the specifications to Perkins ElectropaK specification:

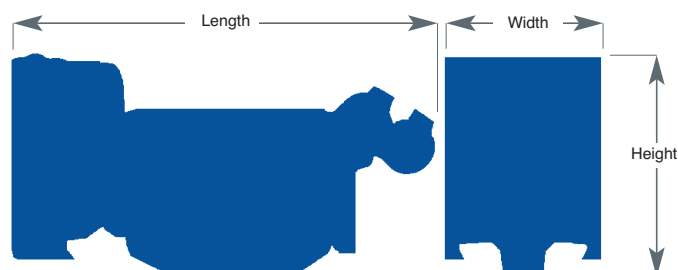
Tropical radiator including: Water pipes, clips and hoses
Fan, fan guards and belts

Other optional extra equipment available

Twin heavy duty air cleaner – paper element with pre-cleaner
Changeover lubricating oil filter
Changeover fuel oil filter

Immersion heater with thermostat
Water pipes, clips and hoses for radiator
Air starters
Instrument panel

NB This list is not exhaustive, further options may be available to meet to particular applications on enquiry to Perkins Sales Department



Dimensions – see 'General data'

Fuel Consumption (g/kWh)		
Engine Speed	1500 rev/min	1800 rev/min
Standby Maximum Rating	207	212
Prime Power Rating	202	211
Baseload Power Rating	199	206
75% of Prime Power Rating	196	208
50% of Prime Power Rating	202	210
25% of Prime Power Rating	218	207

General data

Number of cylinders 8
Cylinder arrangement Vertical in-line
Cycle 4 stroke
Induction system Turbocharged and air to air charge cooled
Combustion system Direct injection
Cooling system Water-cooled
Displacement 30.561 litres
Bore and stroke 160 x 190 mm
Compression ratio 13.6:1
Direction of rotation Anti-clockwise, viewed from flywheel end
Firing order 1, 4, 7, 6, 8, 5, 2, 3
Total lubrication system capacity 165.6 litres

	Electro Unit	ElectropaK
Total coolant capacity	48 litres	162 litres
Total weight (dry)	3120 kg	3730 kg
Dimensions – Length	2879 mm	3780 mm
Width	1571 mm	1630 mm
Height	1760 mm	2193 mm

Final weight and dimensions will depend on completed specification

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