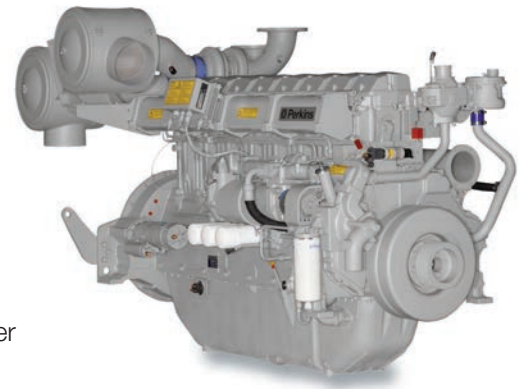


4000 Series 4008TAG2A Diesel Engine – Electropak

947 kWm @ 1500 rpm

The Perkins 4000 Series family of 6, 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 4008TAG1A/2A Electropaks are turbo-charged, air-to-air charge cooled, 8 cylinder in-line diesel engines. Offered with either Temperate or Tropical cooling packages (with or without fuel cooling). Their 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.



| Specification | | | |
|----------------------------|---|----------------------|---------------------------|
| Number of cylinders | 8 vertical in-line | | |
| Bore and stroke | 160 x 190 mm | 6.3 x 7.5 in | |
| Displacement | 30.561 litres | 1865 in ³ | |
| Aspiration | Turbocharged and air-to-air charge cooled | | |
| Cycle | 4 stroke | | |
| Combustion system | Direct injection | | |
| Compression ratio | 13.6:1 | | |
| Rotation | Anti-clockwise, viewed from flywheel end | | |
| Total lubricating capacity | 153 litres | 40.4 US gal | |
| Cooling system | Water-cooled | | |
| | Temperate cooling | | Tropical cooling |
| Total coolant capacity | 143 litres | 37.8 US gal | 149 litres 39.4 US gal |

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THE HEART OF EVERY GREAT MACHINE

4000 Series 4008TAG2A Diesel Engine – ElectropaK

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Features and benefits

Economic power

- Individual four valve per cylinder heads give optimised gas flows, whilst digitally governed unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion, for efficiency and economy
- Commonality of components with other engines in the 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
- New designed radiator assemblies with corrosion inhibiting powder coated surfaces; fewer pipe joints and easier access to reduce maintenance times
- Designed to provide excellent service access for ease of maintenance
- Engines designed to comply with major international standards
- Low gaseous emissions for cleaner operation

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Technical information

Air inlet

- Mounted oil filters and turbochargers

Fuel system

- Unit fuel injectors with lift pump and hand stop control
- Digital 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
- Powder coated radiator assemblies comprising: water radiator; air charge cooled radiator; fuel oil cooling (optional); all pipes, hoses and clips; fan; pulley; fan belts and safety guards

Electrical system

- 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

Other optional extra equipment available:

Choice of Temperate or Tropical radiators available dependent on operational cooling requirements

Fuel oil cooling radiator available integral to radiator assemblies

Twin heavy duty air cleaner – paper element with pre-cleaner

Changeover lubricating oil filter

Changeover fuel oil filter

Immersion heater with thermostat

Air starters

Instrument panel

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

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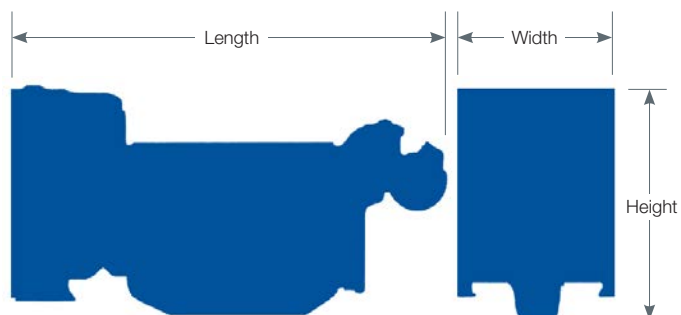
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| Engine package weights and dimensions | | | | |
|---------------------------------------|-------------------|----------|------------------|---------|
| | Temperate cooling | | Tropical cooling | |
| Length | 3852 mm | 151.7 in | 3711 mm | 146 in |
| Width | 2046 mm | 80.5 in | 2046 mm | 80.5 in |
| Height | 2067 mm | 81.3 in | 2146 mm | 84.5 in |
| Weight (dry) | 4270 kg* | 9414 lb | 4320 kg* | 9524 lb |

* For fuel cooler, add 6 kg

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| Speed rpm Radiator type | Type of operation | Typical generator output (Net) | | Engine power | | | |
|----------------------------|-------------------|--------------------------------|-----|--------------|------|-----|------|
| | | | | Gross | | Net | |
| | | kVA | kWe | kWm | hp | kWm | hp |
| 1500 Tropical | Baseload power | 809 | 647 | 719 | 964 | 681 | 913 |
| | Prime power | 1022 | 818 | 899 | 1206 | 861 | 1155 |
| | Standby (maximum) | 1125 | 900 | 985 | 1321 | 947 | 1270 |

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, BS5514/1.

Rating conditions: 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. Please consult your distributor or the factory for ratings in other 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. **Full specification:** BS2869: 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 one hour in every twelve hours operation. **Standby (maximum):** Power available at variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.

| Percent of prime power | Fuel consumption for temperate and tropical at 1500 rpm | |
|---------------------------|---|------|
| | g/kWh | l/hr |
| Standby (maximum) | 209 | 240 |
| Prime power | 206 | 215 |
| Continuous baseload power | 206 | 172 |
| 75% | 206 | 162 |
| 50% | 207 | 111 |

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