TIER 4ir

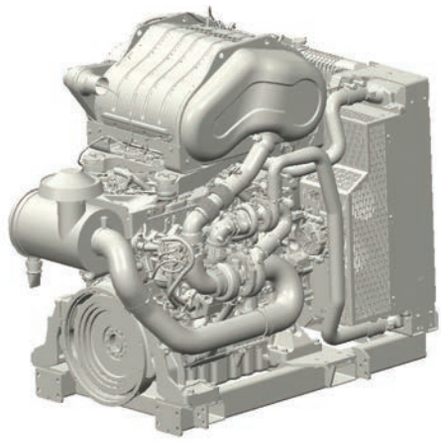
1200 Series 1206F-E70TTAG3 Diesel Engine - ElectropaK

EPA Tier 4 Final
184 kWm / 247 bhp

Building on its already strong EPA Tier 4 electric power range, Perkins is pleased to announce the addition of the 1206F ElectropaK.

The whole engine has been built around the demands of our customers and as such offers a great package with a simple integration design.

Perkins have developed a reputation for designing and building reliable and durable engines suitable for the most demanding applications.



Engine data

Number of cylinders ..... 6 vertical in-line
Bore and stroke..... 105 mm x 135 mm (4.13 in x 5.3 in)
Displacement ..... 7.01 litres (427.7 cubic in)
Aspiration TTA ..... Series turbocharged aftercooled
Cycle ..... 4 stroke
Combustion system..... Direct injection
Compression ratio 16.5:1
Rotation..... Anti-clockwise, viewed on flywheel
Cooling system..... Liquid
Total lubricating capacity..... 13-16 litres (3.4-4.2 US gal)
Total coolant capacity ..... 15.2 litres (4 US gal)
Dimensions (including electrics and backend)
- Length ..... 1769 mm (69.6 in)
- Width..... 916 mm (36.0 in)
- Height..... 1461 mm (57.5 in)

Dry weight ..... 1087 kg (2396 lb)

Final weight and dimensions will depend on completed specification

Emissions

Designed to meet EPA Tier 4 Final (US).

Dependable power

World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

Series turbocharging with smart wastegate.

Lifetime of low cost

Fuel consumption optimised to match operating cycles of a wide range of equipment and applications.

Hydraulic tappets, multi-vee belts, service-free aftertreatment and 500 hour oil change intervals enable low-cost maintenance.

Industry leading flexibility

Exceptional power density enables standardisation across numerous applications. Multiple installation options minimise total package size. Ideal for equipment with narrow engine compartments.

Local support, global coverage

- Perkins recognise that the customer relationship is important to machine manufacturers and we can offer a range of flexible solutions to help provide appropriate support, either to the OEM's network or directly to the machine customer.
- Perkins information systems enable our distributors to quickly diagnose engine faults and identify the right parts. The Perkins logistics operation is able to dispatch more than 45,000 different parts from stock, reaching the customer within 24 hours.
- Extended Service Contracts – protect and plan the cost of ownership.

Discover more
www.perkins.com
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To find your local distributor

Engine Speed rpm	Type of Operation	Generator Output		Engine Power			
				Gross		Net	
		kVA	kWe	kWm	bhp	kWm	bhp
1800	Prime Power	169	135	167	225	151	203
	Standby Power	188	150	184	247	168	225

Perkins®
THE HEART OF EVERY GREAT MACHINE

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Engine specification

Air inlet
- Standard air cleaners

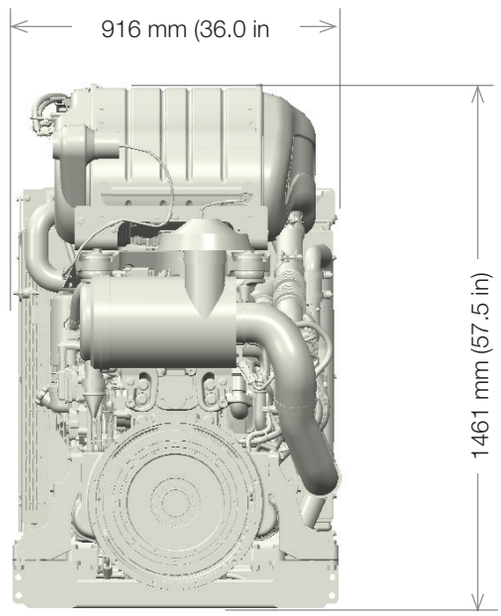
Control system
- Full electronic control system
- All connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and well supported SAE J1939 CAN bus enables highly integrated machines

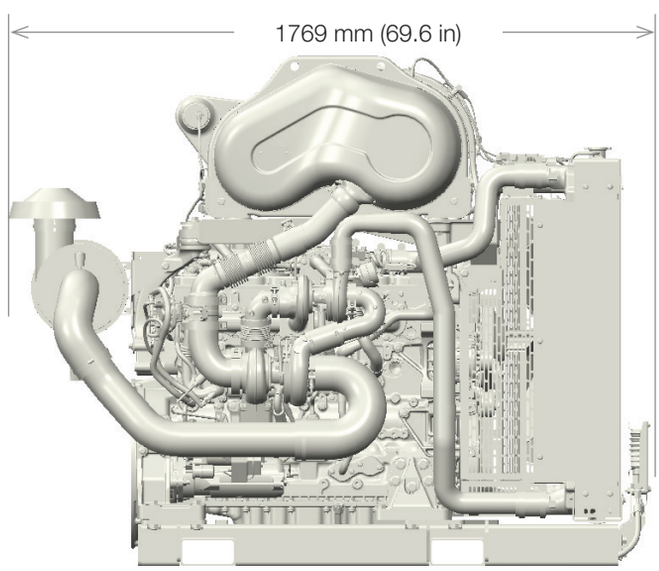
Cooling system
- 50:50 water glycol mix
- Tropical radiator as standard ensures optimal cooling performances all year round in any state

Standard emissions control equipment
- NRS – NOx Reduction System

Flywheels and flywheel housing
- SAE 3 flywheel housing

Oil and fuel system
- Flat bottomed, isolated, aluminum sump
- Electronic high pressure common rail
- Innovative filter design – ensures maximum protection of the engine





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Fuel Consumption		
Engine Speed	1800 rpm	
	g/kWh	l/hr
Standby	205	45
Prime Power	207	42
75% of Prime Power	210	32

Photographs are for illustrative purposes only and may not reflect final specification.

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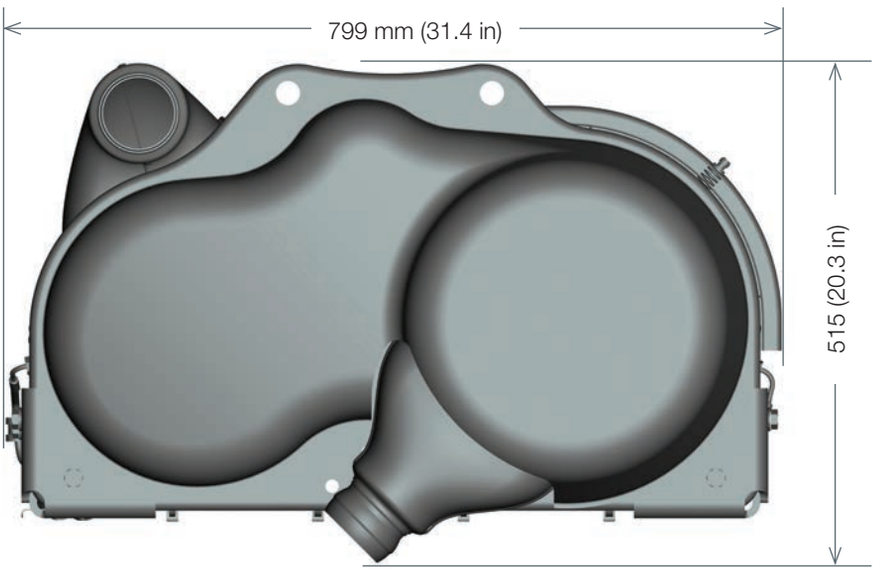
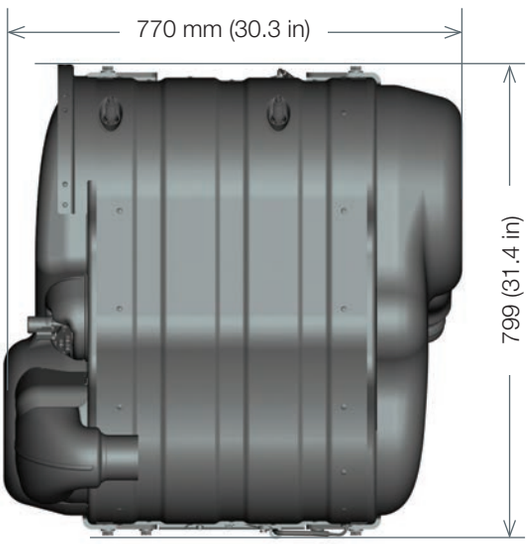
Aftertreatment configuration

Front view



Top view



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Technology
The DPF technology chosen is a wall flow filter configuration. This enables the engine to be optimised for superior performance and low fuel consumption.

Power
Using our advanced research and development techniques, we have perfectly matched the aftertreatment to the engine. The engine performance has then been optimised to give the maximum power and in normal operation, the regeneration is invisible to the operator.

Regeneration
Passive Regeneration System maximises fuel efficiency during regeneration.

Mounting
Engine mounted aftertreatment provides the OEM with a simple-to-install solution.

Service
Aftertreatment designed to be service-free.

Aftertreatment
- Basic aftertreatment package includes DOC / DPF/ SCR
- DOC – Diesel Oxidation Catalyst
- DPF – Diesel Particulate Filter
- SCR – Selective Catalytic Reduction
- 3″ flex pipe connection kit with rotatable elbow for 60° and 90° RS inlet flexibility

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