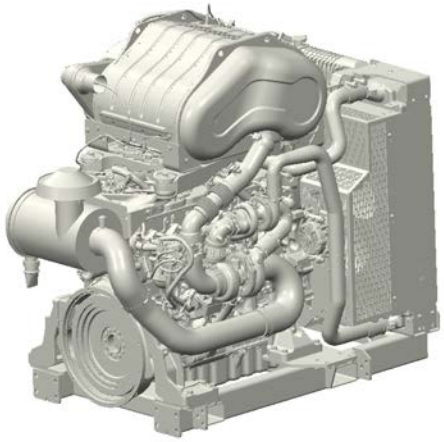
1200 Series 1206F-E70TTAG3 Diesel Engine – ElectropaK

EPA Tier 4 Final
184 kWm / 247 hp @ 1800 rpm



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.

Emissions

Designed to meet EPA Tier 4 Final (US).

Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	105 x 135 mm	4.13 x 5.3 in
Displacement	7.01 litres	427.7 in^3
Aspiration	Series turbocharged aftercooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	13-16 litres	3.4-4.2 US gal
Cooling system	Liquid	
Total coolant capacity	15.2 litres	4 US gal

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THE HEART OF EVERY GREAT MACHINE

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Features and benefits

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
- Extended Service Contracts – protect and plan the cost of ownership
  Discover more: www.perkins.com/esc

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
- To find your local distributor: www.perkins.com/distributor

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Technical information

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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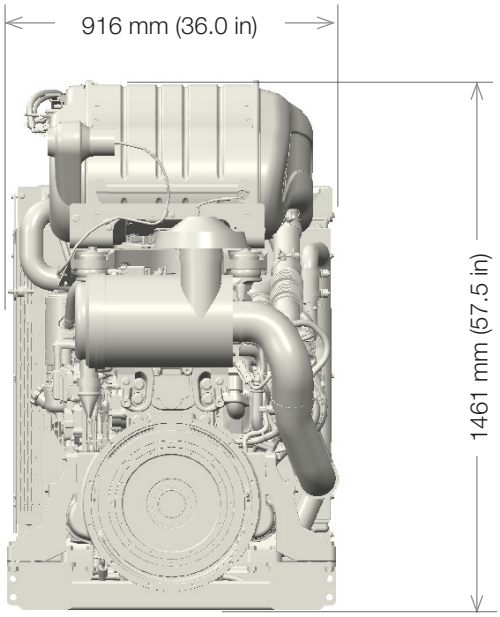

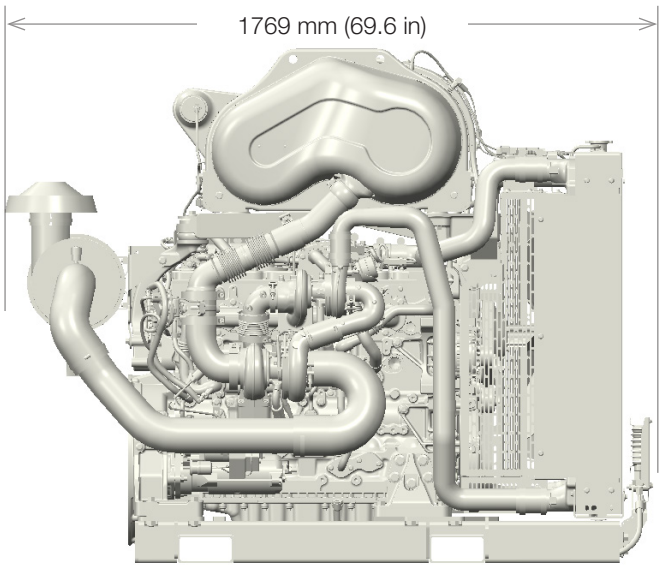

Engine package weights and dimensions (including electrics and backend)		
Length	1769 mm	69.6 in
Width	916 mm	36.0 in
Height	1461 mm	57.5 in
Weight (dry)	1087 kg	2396 lb

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Final weight and dimensions will depend on completed specification.

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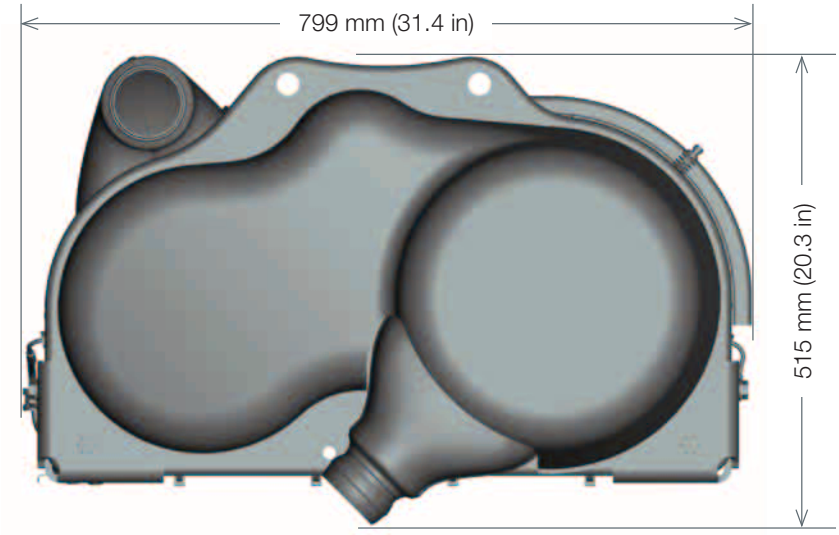
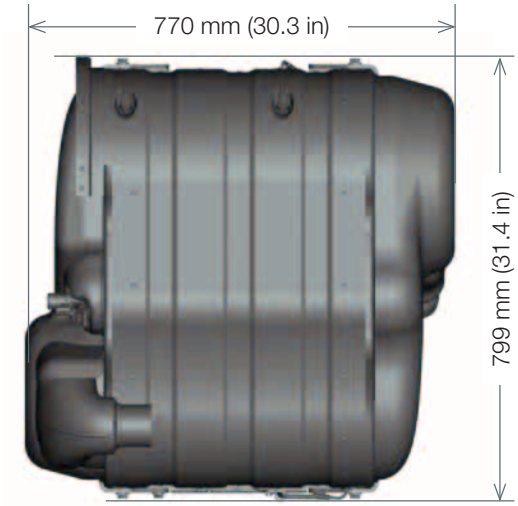
Front view



Top view



	Aftertreatment weights and dimensions	
Length	799 mm	31.4 in
Width	770 mm	30.3 in
Height	515 mm	20.3 in

Aftertreatment

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

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 Regenerations System maximises fuel efficiency during regeneration.

Mounting

Remote and engine-mounted installation options provide OEM flexibility for many applications.

Service

Aftertreatment designed to be service-free.

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Speed rpm	Type of operation	Generator output		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1800	Prime power	169	135	167	225	151	203
	Standby power	188	150	184	247	168	225

Percent of prime power	Fuel consumption at 1800 rpm g/kWh	Fuel consumption at 1800 rpm l/hr
Standby power	205	45
Prime power	207	42
75%	210	32

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