

# 900 Series

# 903-27

## Agricultural and Industrial Power Units

## 36kW/48bhp

The Perkins 900 Series is the latest groundbreaking generation of Perkins 3 cylinder engines. It has all of the rugged strengths of its predecessor, the world renowned 3.152 whilst employing the latest advances in combustion engineering. It is more productive and meets all Stage 1 Off-Highway emissions standards worldwide as well as offering a 50% reduction in noise and the virtual elimination of visible exhaust smoke.

This durable, high performance 3 cylinder naturally aspirated diesel, is ideally suited for use within agricultural, construction and other general industrial equipment.



### Durable Power

- Benefiting from the inherent build quality of all Perkins 3 cylinder engines, the 900 Series excels in the most demanding environments and is designed to give typically at least 10,000 productive hours before requiring an overhaul.

### More Power, Less Fuel

- The new Fastram combustion system delivers more power and torque than its predecessor whilst improving fuel consumption. The result, a more responsive engine which also offers a doubling of service intervals for oil and filters of up to 500 hours.

### Clean and Quiet Power

- The Perkins 900 Series meets worldwide Stage 1 Off-Highway legislation, the range is also virtually free from visible smoke. This is coupled with a reduction in noise of up to 3dBA, effectively a 50% reduction.

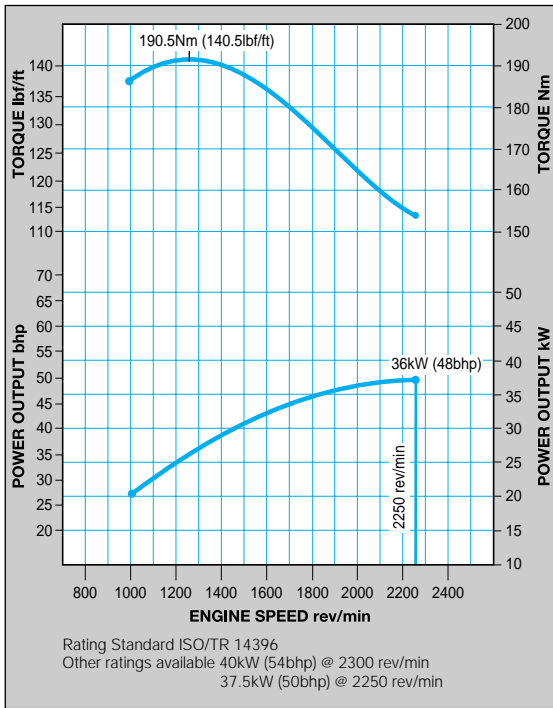
### Reliable Power

- Perkins outstanding reputation relies heavily on our world class manufacturing capability. Internationally recognised and customer approved quality procedures ensure unsurpassed reliability which will exceed expectations.

Performance Data	Gross Continuous	Speed rev/min
Power Output (kW)	36.0	2250
Power Output (bhp)	48.0	2250
Peak Torque (Nm)	190.5	1200
Peak Torque (lbf/ft)	140.5	1200

Rating Standard ISO (TR) 14396

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## Engine Specification

With a truly massive combination of ratings, configuration and dress options, the Perkins 900 Series range brings with it the ability to release the full potential of a machine's operational capability. An individual engine specification can be tailored exactly to an application need, using the new "Custom" ordering system, with choice now extending to every option group:

### Option Groups

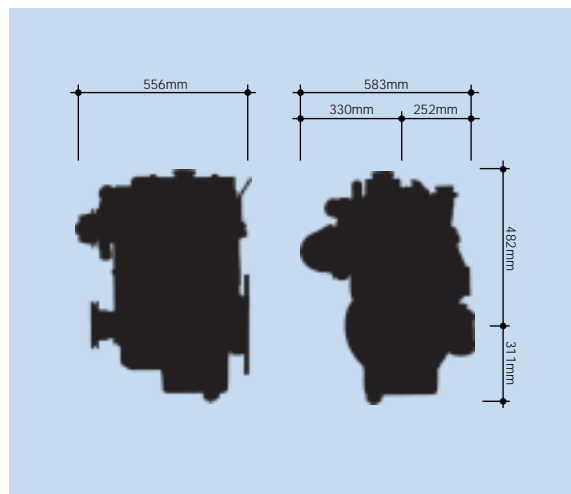
- Engine rating
- Flywheel housing
- Flywheel
- Starter motor
- Lubricating oil sump
- Lubricating oil filler
- Lubricating oil filter
- Fan and extension
- Alternator
- Gear driven auxiliaries
- Induction manifold
- Exhaust manifold
- Fuel filter
- Cold start aid
- Engine mounting
- Lubricating oil pressure switch
- Water temperature switch

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## General Data

<b>Engine Configuration</b>	3 Cylinder Vertical In-Line
<b>Aspiration</b>	Naturally Aspirated
<b>Combustion System</b>	Fastram Direct Injection
<b>Bore/Stroke</b>	95/127mm (3.74/5.00in)
<b>Displacement</b>	2.70 Litres (164.8in <sup>3</sup> )
<b>Compression Ratio</b>	17.5:1
<b>Firing Order</b>	1, 2, 3.
<b>Rotation</b>	Clockwise, viewed from front
<b>Basic Thread Form</b>	Metric
<b>Cooling System</b>	Liquid
<b>Coolant Capacity</b>	3.94 Litres (4.16 US Quarts)
<b>Normal Oil Pressure</b>	276-414kN/m <sup>2</sup> (40-60lbf/in <sup>2</sup> )
<b>Dry Weight</b>	231kg (509lb)



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All information in this document is substantially correct at the time of printing but may be altered subsequently by the company.