

400 Series 403F-11 Industrial

14.1 kW (19.0 hp) @ 2200 rpm
 18.4 kW (24.7 hp) @ 2800 rpm

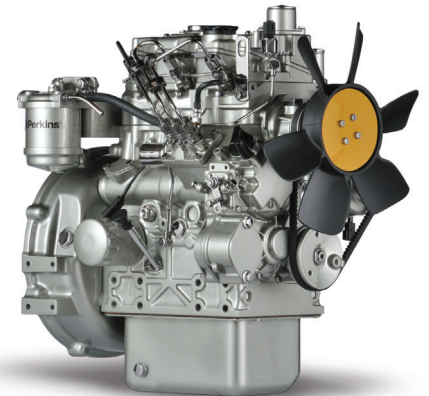
The latest Perkins® 400F range of industrial engines is an evolution of the highly successful and productive Perkins 400D range and has been developed specifically to meet the latest set of emissions in North America.

For our customers, these compact 3 and 4 cylinder engines offer a simple, cost effective upgrade to the latest stringent EPA legislation.

This 1.1 litre, 3 cylinder engine complements the exciting Perkins 400 Series product line-up, offering customers an ultra-compact, lightweight power unit that maintains all the customer benefits they can experience from other products in the range.

With no change to the core engine or hook up points and a high level of component commonality with 400D range, our customers benefit from minimum machine change and development costs to upgrade to Tier 4 Final and a common machine for export markets.

The comprehensive 400 Series engine family continues to set new standards in the compact engine market. Developed alongside customers to fulfil their needs in the construction, materials handling, agricultural/turf, genset and compressor markets, it is another class-leading diesel range from Perkins.



Ultra-compact power

- Up to 18.4 kW (24.7 hp) from an engine envelope of 0.11 cubic metres (3.8 cubic ft)
- Easy installation

Clean and quiet

- Noise levels have been kept to a minimum
- Subjective harshness has been carefully controlled making the engine sound even quieter

Durable and reliable

- Product design and process improvements enhance both engine reliability and durability
- The introduction of a simple electronic governor system gives customers the flexibility of electronic machine integration if needed
- A standard two-year warranty demonstrates our confidence in durability and reliability

Low operating costs

- Approved for operation on biodiesel* concentrations of up to 20%
- Oil and filter changes are 500 hours, dependent on load factor

- Engine durability and reliability, the warranty offering and ease of installation combine to drive down the cost of ownership

Product support

- With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition

Warranties and Service Contracts

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally

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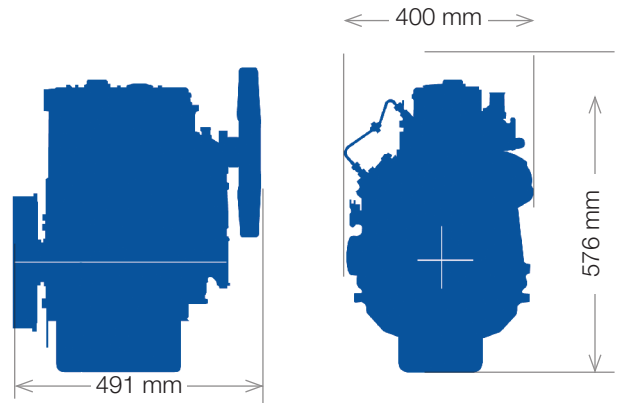
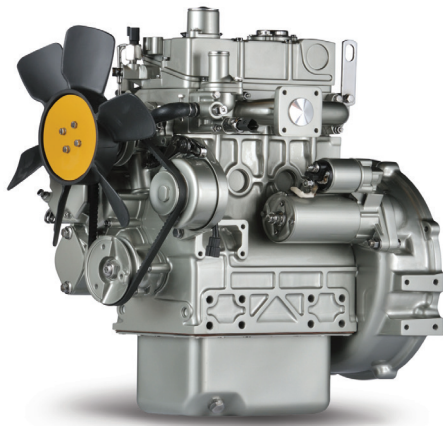
Gross Intermittent (ISO/TR 14396)					
Power Output			Peak Torque		
rpm	kW	hp	Nm	lbf.ft	rpm
2200	14.1	19.0	61.0	45.0	2200
2800	18.4	24.7	64.6	47.6	2600

Power output for a run-in engine after 60 hours.

*Subject to conformance with ASTM D6751 and EN14214.

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Engine specification

- Cast iron engine block
- Flywheel and flywheel housing
- Fuel injection pump
- Split element fuel filter
- Glow plug starting aid
- Lub oil sump
- Spin on lub oil filter
- Inlet manifold
- Cast iron exhaust manifold – side outlet
- Coolant pump belt driven
- Electronic governor
- Alternator 12 volt 40 amp with DC output
- Lub oil pressure switch
- Coolant temperature switch
- SAE A-A PTO
- Choice of cooling fans
- Starter motor 12 volt
- Cold start -20°C (aided)

Option groups

A selection of optional items is available to enable you to prepare a specification precisely matched to your needs.

Emissions statement

Industrial and IOPU Engines: Certified against the requirements of US EPA Tier 4 Final (40 CFR Part 1039). Less than 19 kW EC certification not required.

Engine data

Number of cylinders	3 in-line
Bore and stroke.....	77 x 81 mm (3.0 X 3.2 in)
Displacement	1.13 litres (69.0 cubic in)
Aspiration	Naturally aspirated
Cycle.....	4 stroke
Combustion system.....	Indirect injection
Compression ratio	23:1
Rotation.....	Clockwise viewed from front
Cooling system.....	Liquid 50/50 antifreeze
Total lubrication capacity.....	4.4 litres (1.1 US gals)
Total coolant capacity	1.9 litres (0.5 US gals)
Dimensions	
Length	491 mm (19.3 in)
Width.....	400 mm (15.7 in)
Height.....	576 mm (22.6 in)
Dry weight	87 kg (191 lb)
Final weight and dimensions will depend on completed specification.	

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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