



400 Series

402D-05

Compact Industrial and Construction Power

10.2 kW/13.7 bhp @ 3600 rev/min

The Perkins 400D range has been developed in consultation with our marketplace. This 0.5 litre, 2 cylinder engine is the smallest engine offered by Perkins, however, this ultra-compact, lightweight power unit still maintains all the customer benefits experienced from this exciting Product range.

Ultra-compact power

- Up to 10.2 kW from an engine envelope of 0.07 m³
- Easy installation even in the smallest of machines

Clean and quiet

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

Durable power

- Product design and process improvements enhance both engine reliability and durability
- An improved (advanced) governor, valve seat inserts, and new compliance testing deliver reliability with 6,000 hours durability
- A standard 2 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 now set at 500 hours as standard
- Engine durability and reliability, the warranty offering and ease of installation combine to drive down the cost of ownership

Product support

- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their finger tips, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide you with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost... wherever your Perkins powered machine is operating in the world

Certified to Stage IIIA and Tier 4b.

The 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, gen set and compressor markets, it is another class leading diesel range from Perkins.

Built to the most demanding standards, the 400D engines meet all the requirements of the off-highway emissions legislation for EC Stage IIIA/USA EPA Tier 3 and beyond.

Long 500 hour service intervals, a two year standard warranty, low noise and harshness, and a wide range of options make the 400 Series range the complete solution for compact power needs.

The 402D-05 is a 2 cylinder 0.5 litre unit which delivers impressive performance, with low operating costs in an ultra compact, efficient package ideally suited to a wide range of small off-highway applications.

Performance Data	Gross Intermittent (ISO/TR 14396)	Speed (rev/min)
Power Output (kW)	10.2	3600
Power Output (bhp)	13.7	3600
Peak Torque (Nm)	29.7	2400
Peak Torque (lbf ft)	21.9	2400

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

*Subject to conformance with ASTM D6751 and EN14214.

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

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Engine Specification

- Cast iron engine block
- Flywheel and flywheel housing
- Fuel injection pump
- Spin on fuel filter
- Glow plug starting aid
- Lub oil sump
- Spin on lub oil filter
- Inlet manifold
- Cast iron exhaust manifold – side outlet
- Closed circuit breather
- Coolant pump belt driven
- Starter motor 12 volt
- Alternator 12 volt 14 amp
- ESOS
- Lub oil pressure switch
- Coolant temperature switch
- Choice of coolant fans
- Cold start capability to -30°C (aided)
- Gradeability 35° continuous

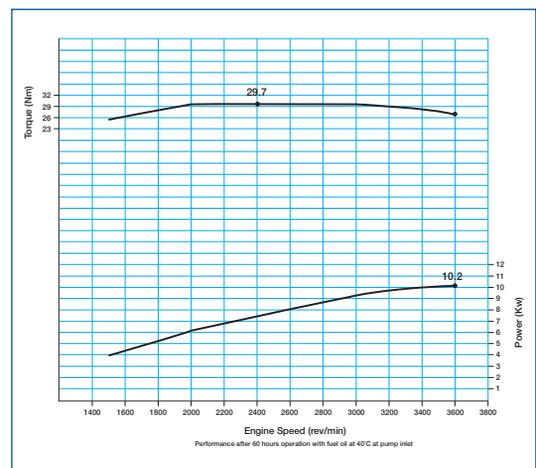
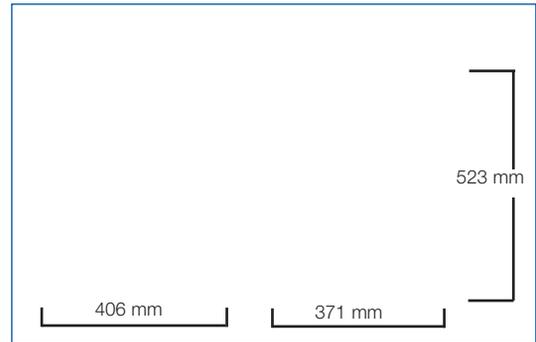
General Data

Number of cylinders	2 in-line
Bore and stroke	67 x 72 mm
Displacement	0.51 litres
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Compression ratio	23.5:1
Engine rotation	Anti-clockwise viewed on flywheel
Governing	All speed mechanical
Cooling system	Pressurised water
Total lubrication capacity	2.01 litres
Total coolant capacity	1.1 litres
Dimensions	Length 406 mm Width 371 mm Height 523 mm
Dry weight	57 kg

Final weight and dimensions will depend on completed specification.

Option Groups

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



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