

400 Series 403D-11 Industrial Open Power Unit

17.9 kW / 24.0 hp @ 3000 rpm

The Perkins® 400D range has been developed in consultation with our marketplace. This 1.1 litre, 3 cylinder engine complete with radiator cooled unit, compliments the exciting 400 Series product line-up, offering customers a choice of ultra-compact, lightweight power units whilst maintaining all the customer benefits they can experience from other products in the range.

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, genset 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 EU emissions legislation.

Perkins IOPUs offer the advantages of an industrial engine, with the convenience of a cost effective cooling and filtration solution. This minimises machine development time and costs, and enables applications to be powered with ease.

The 403D-11 IOPU is a powerful but quiet 1.1 litre packaged unit. It delivers impressive performance with low operating costs in a small, efficient package ideal for a range of industrial applications.



Ultra-compact power

- Up to 17.9 kW (24 hp) from an engine envelope of 0.25 cubic metres (8.8 cubic feet)
- Easy installation

Clean and quiet

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

Durable and reliable

- Product design and process improvements enhance both engine reliability and durability
- A new improved (advanced) governor, valve seat inserts, and new compliance testing deliver reliability of 6,000 hours
- A standard two-year warranty demonstrates our confidence in durability and reliability of our engines

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

[Discover more](#)

www.perkins.com

www.perkins.com/esc

www.perkins.com/distributor

[To find your local distributor](#)

Performance Data	Maximum Power			Nm	lbf-ft	Speed rpm
	Speed rpm	kW	hp			
Net Intermittent	3000	18.1	24.3	64.6	47.6	2100
Net Continuous	3000	15.8	21.2	56.2	41.5	2100
Net Intermittent	2800	17.3	23.2	64.6	47.6	2100
Net Continuous	2800	15.1	20.2	56.2	41.5	2100

*Subject to conformance with ASTM D6751 and EN14214.

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.

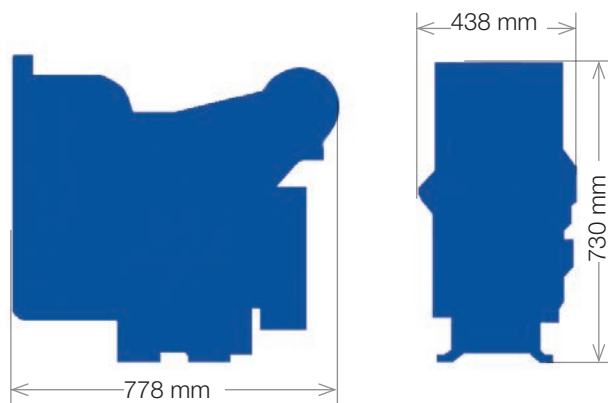
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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

400 Series 403D-11 Industrial Open Power Unit

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Lower speed ratings cannot be read from this curve.

Engine specification

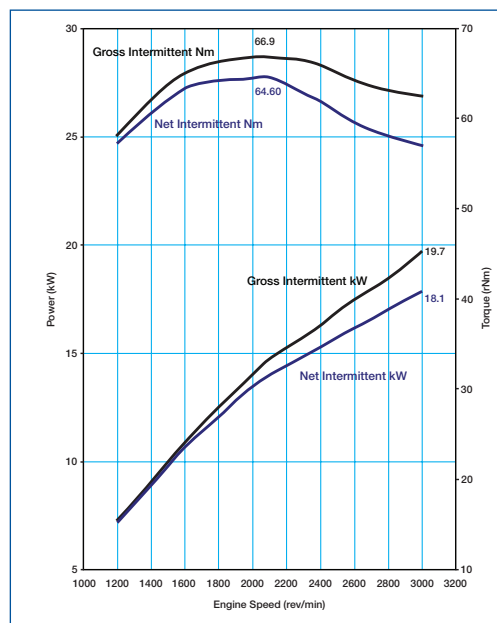
- Cast iron engine block
- SAE flywheel size 165.1 mm (6½ in)
- SAE 5 flywheel housing
- Fuel injection pump
- Fuel filter
- Glow plug starting aid
- Lub oil sump
- Spin on lub oil filter
- Inlet manifold
- Cast iron exhaust manifold – side outlet
- Coolant pump belt driven
- Mounted radiator and fan
- Mounted air cleaner
- Starter motor 12 volt
- Alternator 12 volt 15 amp
- ESOS (Electric shut-off solenoid)
- Lub oil pressure switch
- Coolant temperature switch

Option groups

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

Emissions statement

- Variable Speed: Industrial and IOPU engines: Certified against the requirements of EU Stage IIIA (Directives 97/68/EC, as last amended, and 2005/26/EC, as last amended).
- Constant Speed Engines for use in Industrial, IOPU and ElectropaK applications: Certified against the requirements of EU Stage IIIA (Directives 97/68/EC, as last amended, for mobile applications).



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 cubic in)
Aspiration	Naturally aspirated
Cycle.....	4 stroke
Combustion system.....	Indirect injection
Compression ratio	22.7:1
Rotation.....	Anti-clockwise viewed on flywheel
Cooling system.....	Liquid
Total lubrication capacity	4.9 litres (1.3 US gals)
Total coolant capacity	5.21 litres (1.4 US gals)
Dimensions	
Length	777 mm (30.6 in)
Width.....	438 mm (17.2 in)
Height.....	730 mm (28.7 in)
Dry weight	129 kg (284.4 lb)
Final weight and dimensions will depend on completed specification	

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Perkins Engines Company Limited

Perkins Engines Company Limited

Peterborough PE1 5FQ
United Kingdom
Telephone +44 (0)1733 583000
Fax +44 (0)1733 582240
www.perkins.com



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