23.6-26.1 kW (31.6-35 hp) @ 2400-2600 rpm EU Stage IIIA/U.S. EPA Tier 4 Interim equivalent

The Perkins 400 Series is an extensive family of engines in the 0.5-2.2 litre range. The 3 cylinder 403-17 model is a mid-range 400 Series engine, combining performance, low operating costs and a compact package. From a packaging point of view, the 403-17 is the ideal engine for small industrial applications. It is offered with both indirect (IDI) and common rail fuel injection systems.

A very quiet 1.7 litre unit that delivers improved performance and reduced operating costs in a small, efficient package.

Designed to meet EU Stage IIIA/U.S. EPA Tier 4 Interim equivalent emission standards.



Specifications

Power Rating			
Minimum power	31.6 hp		
Maximum power	26.1 kW	35 hp	
Rated speed	2400-2600 rpm		
Maximum torque	106 Nm @ 1800 rpm 78.1 lb-ft @ 1		

Emission Standards	
Emissions	EU Stage IIIA/U.S. EPA Tier 4 Interim equivalent

General			
Number of cylinders	3 inline		
Bore	84 mm	3.3 in	
Stroke	100 mm	3.9 in	
Displacement	1.7 litres	101 cubic in	
Aspiration	Naturally aspirated		
Cycle	4 stroke		
Compression ratio	23:1		
Combustion system	Indirect injection		
Rotation (from flywheel end)	Anti-clockwise		
Cooling system	Liquid		

23.6-26.1 kW (31.6-35 hp) @ 2400-2600 rpm

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Total coolant capacity	2.4 litres	0.6 US gal	
Total lubricating capacity	6 litres	1.6 US gal	

Engine Dimensions*				
Length	564 mm	22.2 in		
Width	453 mm	17.8 in		
Height	654 mm	25.7 in		
Dry weight	160 kg	352.7 lb		

Disclaimer		
*Final dimensions dependent on selected options	0	0

Features and Benefits

A lifetime of low cost

The 400 Series offers highly competitive performance and fuel economy. Through appropriate use of technology, these engines have been designed to be reliable and to offer low cost of ownership in the wide variety of markets they serve.

Across an extensive power band, the 400 Series range offers you the ability to configure a solution to your specific machine, territory and market requirements.

Overlapping power bands between models and an extensive range of options gives the opportunity to optimise performance and functionality, adding customer value to the application.

We provide one year warranties for constant speed engines and two year warranties for variable speed models as standard.

As a 400 Series end user, you also benefit from Perkins world class product support and service coverage that comes from being a full range power solutions provider.

Compact design

The compact design of these engines makes them suitable for a range of applications, including skid steer loaders, mini excavators, wheel loaders, welders, lift platforms, lighting towers, small tractors, air compressors, turf care machinery and materials handling machinery.

Each of the six core engines of the 400 Series is configured for either Stage IIIA/Tier 4 Interim or Stage IIIB/Tier 4 Final emission standards, giving you flexibility depending on your market.

Performance and refinement



23.6-26.1 kW (31.6-35 hp) @ 2400-2600 rpm

EU Stage IIIA/U.S. EPA Tier 4 Interim equivalent

The 400 Series lineup gives you a seamless power range of 8.2-50 kW (11-67 hp) in 2, 3 and 4 cylinder models designed with a family look and feel. The range offers a wide variety of ratings and configurations that can be tailored to meet the most exacting needs.

The selective use of indirect and direct injection fuel systems enables Perkins to offer world-class engine refinement and low noise levels.

Technical Information

Air inlet system

- · Cast iron exhaust manifold side outlet
- Inlet manifold

Control system

- 12 volt and 24 volt alternator
- 12 volt and 24 volt starter motor
- Electronic Shut Off Solenoid (ESOS)

Cooling system

- Coolant pump belt driven
- Coolant temperature switch
- · Cooling fan

Flywheel and flywheel housing

Fuel system

- · CTD fuel injection pump
- · Spin-on fuel filter

General

- Cast iron engine block
- · Glow plug starting aid
- Cold start capability to -20°C (-4°F) (aided)

Oil system

- · Lubricating oil pressure switch
- · Lubricating oil sump
- · Spin-on lubricating oil filter

Power take-off

SAE A PTO



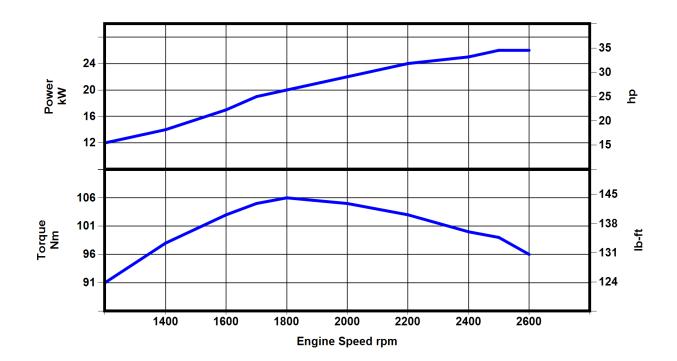
23.6-26.1 kW (31.6-35 hp) @ 2400-2600 rpm EU Stage IIIA/U.S. EPA Tier 4 Interim equivalent



400 Series 403D-17 INDUSTRIAL ENGINE

EU Stage IIIA/U.S. EPA Tier 4 Interim equivalent

23.5-26.1 kW / 31.5-35.0 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
23.5	31.5	2400	105	142	1800	Industrial C intermittent rating
26.1	35.0	2600	106	144	1800	Industrial C intermittent rating

Rating Standard ISO 14396:2002

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

B rating performance data will be added upon availability

Rating Definitions and Conditions

IND-C (Intermittent) Rating

Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Rating Conditions for Diesel Engines – up to 7.1 liters are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

