

400 Series

404D-22

Power Unit - Irrigation and industrial pump applications

32.3 kW/43.3 bhp

General Data

Number of cylinders	4 in-line
Bore and stroke	84 x 100 mm (3.3 in x 3.9 in)
Displacement	2.2 litres (135.0 in ³)
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Compression ratio	23.3:1
Engine rotation	Anti-clockwise viewed on Flywheel
Cooling system	Liquid
Total lubrication capacity	10.6 litres (2.8 US gals)
Total coolant capacity	6.98 litres (1.8 US gals)
Dimensions	
Length	915 mm (36.0 in)
Width	477 mm (18.8 in)
Height	840 mm (33,1 in)
Dry weight	218 kg (480 lbs)

Final weight and dimensions will depend on completed specification.

Perkins have developed a new set of ratings that has been specifically developed for irrigation and industrial pump applications.

The proven reliability and durability of Perkins engines, together with the benefits of quiet operation, low cost of ownership and excellent fuel consumption make these engines the ideal choice for this market - whether they are needed for centrifugal or deep well pumps; sprinkler or open discharge systems.

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 with 6,000 hours durability.
- A standard 2 year warranty demonstrates our confidence in durability and reliability of our engines.

Low operating costs

- Oil and filter changes are now set at 500 hours as standard.
- Engine durability and reliability, the warranty offering, Extended Service Contract (ESC) and ease of installation combine to drive down the cost of ownership.

Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory - strengthening relationships and providing more value to you, our customer.
- 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 fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine.
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 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.

Complies with EU Stage IIIB and EPA Tier 4 Interim for non-road mobile machinery powered by variable speed engines (EPA 40 CFR Part 1039 Tier 4).

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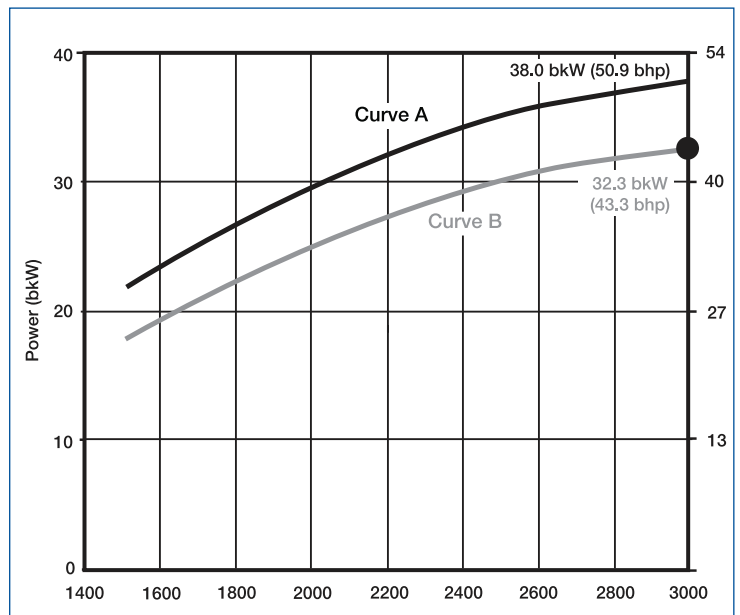
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Engine Specification

- Cast iron engine block
- SAE Flywheel size 7½
- SAE 4 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 65 amp
- ESOS
- Lub oil pressure switch
- Coolant temperature switch

Performance Data



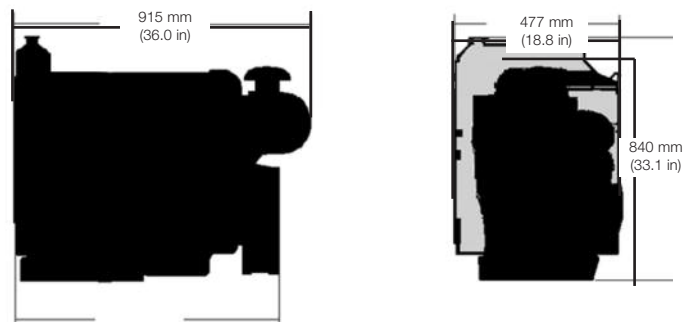
Speed (rpm)	Power (kW)	Power (bhp)	Fuel Consumption (l/hr)	Fuel Consumption (gal/hr)
3000	32.3	43.3	9.9	2.6

Rating Definitions and Conditions

Curve A represents the gross intermittent rating.

Curve B represents the maximum gross power curve for use when matching centrifugal pumps.

- Generally, pumps should be matched using the matching point shown less allowance for parasitic losses (eg, cooling fan, alternator).



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