

1100 Series

1104D-44TA

Power Unit
Irrigation and industrial pump applications

68.8 kW/92.2 bhp

General Data

Number of cylinders	4 in-line
Bore and stroke	105 mm x 127 mm (4.1 in x 5.0 in)
Displacement	4.4 litres (268.5 in ³)
Aspiration	Turbocharged air to air charge cooled
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	18:2
Direction of rotation	Anti-clockwise, viewed on flywheel
Cooling system	Liquid
Total lubrication system capacity	7.9 litres (2.1 gals)
Total coolant capacity	17 litres (4.5 gals)
Dimensions Length	1260 mm (49.6 in)
Width	734 mm (28.9 in)
Height	964 mm (38.0 in)
Dry weight	567 kg (1247.4 lbs)

Final weight and dimensions will depend on completed specification

Powered by your Needs

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.

State of the Art Design

- The 1104D utilises the latest diesel mechanical controlled fuel system technology. This allows the 1104D-44TA to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection.

Reduced Noise

- Noise minimised at source - engine sound levels have been reduced by 2 dBA.
- Reduction in noise suppression costs.

Lower Cost of Ownership

- Virtually identical hook-up points and envelope size as the 1104C-E44TA.
- The 1104D maintains Tier 2/Stage II fuel economy, allowing customers to keep existing fuel tanks.
- Service intervals are 500 hours standard.
- Perkins comprehensive warranty cover for two years with three years on major engine components.
- Low usage warranty package, 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.

Engines certified to Tier 3/Stage IIIA emissions legislation.

Power for a run-in engine after 60 hours.
Net Intermittent = Intermittent service where maximum power and/or are, cyclic (time at full load not to exceed 50%).
Rating standard ISO/TR 14396.
Photographs are for illustrative purposes only and may not reflect final specification.

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Standard Power Unit Specification

Air inlet

- Mounted air filter and turbocharger

Cooling system

- Fan (pusher or puller)
- Fan drive
- Radiator
- Water pump

Electrical equipment

- Alternator (12 or 24 volt)
- Starter motor (12 or 24 volt)

Flywheel and housing

- Flywheel
- SAE 3 flywheel housing

Fuel system

- Fuel filter

Lubrication system

- Oil cooler and filter
- Timing case oil filler

Mountings

- Engine mounting brackets

PTO

- SAE A or SAE B front PTO (142/280 Nm)

Starting aids

- Glow plugs

Literature

- User's Handbook

Option Groups

The 1104D-44TA power unit offers a wide choice of standard build specifications to meet specific customer needs:

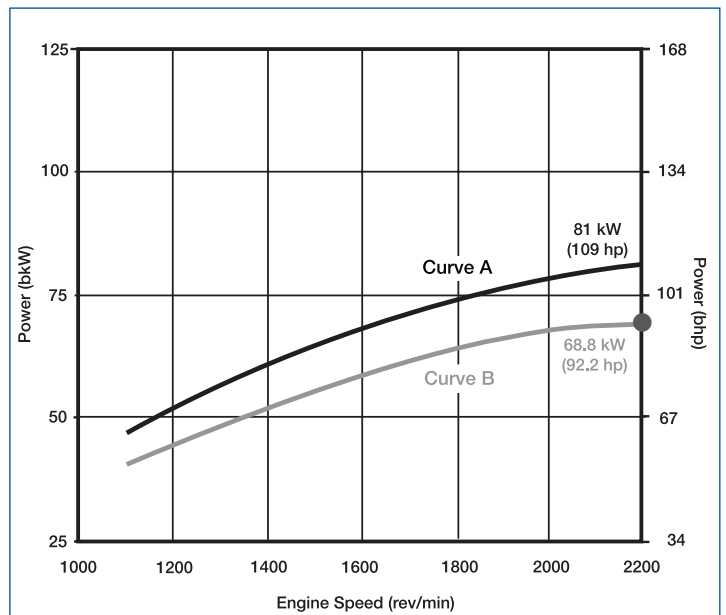
- 12 or 24 volt alternator
- Pusher or puller fan
- SAE A or SAE B front PTO (142/280 Nm) SAE B provides 63 kW/85 hp
- Air compressor



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Performance Data



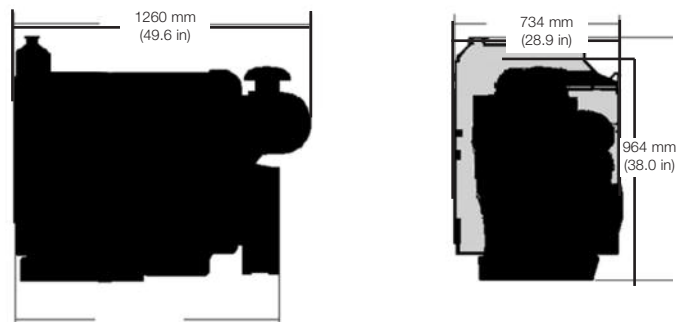
Speed (rpm)	Power (kW)	Power (bhp)	Fuel Consumption (l/hr)	Fuel Consumption (gal/hr)
2200	68.8	92.2	21.7	5.7

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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