



Awaiting image

# 400 Series

## 404D-22TAG

Diesel Engine - ElectropaK

34.7 kWm @ 1800 rev/min

### Powered by your needs

- The 404D-22TAG is a new addition to the 400D range of ElectropaKs and is a powerful but quiet 2.2 litre turbocharged aftercooled 4-cylinder compact package

### Compact, Clean, Efficient Power

- Design features on the 404D-22TAG ElectropaK ensures clean rapid starting in all condition whilst delivering impressive performance with low operating costs in a small, efficient package size

### Lower 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.

### Long-term Power Solution

- The 400D range of ElectropaKs has been designed to fully comply with stringent EU and EPA emissions regulations, providing an emissions compliant power solution for the future (see 'Perkins Emissions Statement' on page 2).

### World-class 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.

The 400 Series engine family continues to set new standards in the compact engine market. Developed alongside customers to fulfill their needs in the Genset, Compressor, Agricultural and general Industrial markets.

These new ElectropaKs provide compact power, from a robust family of 3 and 4 cylinder diesel engines designed to provide economic and durable operation at Prime and Standby duties, hitting the key power nodes required by the power generation industry.

Engine Speed	Type of Operation	Typical Generator Output (Net)		Engine Power			
		kVA	kWe	Gross		Net	
				kWm	bhp	kWm	bhp
1800	Prime Power	35.5	28.4	33.1	44.4	31.5	42.3
	Standby Power	39.0	31.2	36.4	48.8	34.7	46.5

\*Subject to conformance with ASTM D6751 and EN14214.

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS 5514/1.

Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

Generator powers are typical and are based on typical alternator efficiencies and a power factor (cos θ) of 0.8.

Fuel specification: BS 2869: Part 2 1998 Class A2 or ASTM D975 D2.

Rating Definitions

Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours operation.

Standby (maximum): Power available at variable load in the event of a main power network failure. No overload is permitted.

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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### Standard ElectropaK Specification

#### Air Inlet

- Mounted air filter

#### Fuel System

- Electronically governed cassette type fuel injection pump
- Split element fuel filter

#### Lubrication System

- Wet steel sump with filler and dipstick
- Spin-on full-flow lub oil filter

#### Cooling System

- Thermostatically-controlled system with belt driven coolant pump and pusher fan
- Mounted radiator, piping and guards

#### Electrical Equipment

- 12 volt starter motor and 12 volt 65 amp alternator with DC output
- Oil pressure and coolant temperature switches
- 12 volt shut-off solenoid energised to run
- Glow plug cold start aid and heater/starter switch

#### Flywheel and Housing

- 1500/1800 rev/min
- High inertia flywheel to SAE J620 Size 7½ Heavy
- Flywheel housing SAE 4 long

#### Mountings

- Front and rear engine mounting bracket

#### Optional Equipment

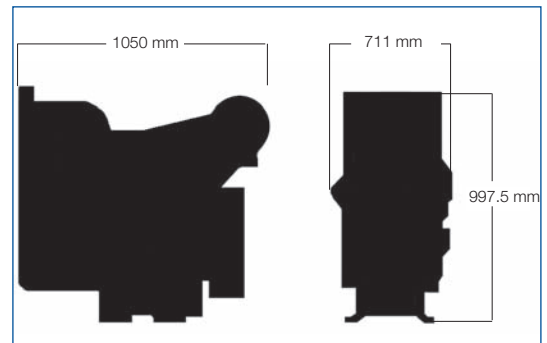
- Workshop manual
- Parts book

#### Option Groups

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

#### Emissions Statement

- **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); and US EPA Tier 4 Interim (40 CFR Parts 60 for stationary applications and 40CFR Part 1039 for mobile applications).



Fuel Consumption		
Engine Speed	g/kwh	l/hr
	Standby	247
Prime power	238	8.9
75% of prime power	231	6.5
50% of prime power	244	4.6

#### General Data

Number of cylinders	4
Cylinder arrangement	Vertical in-line
Cycle	4 stroke
Aspiration	Turbocharged aftercooled
Combustion system	Indirect injection
Compression ratio	23.3:1
Bore and Stroke	84 x 100 mm
Displacement	2.216 litres
Direction of rotation	Anti-clockwise viewed on flywheel
Cooling system	Water cooled
Total coolant capacity	TBC
Total Lubrication system capacity	10.6 litres
Length	1050 mm
Width	711 mm
Height	997.5 mm
Total weight (dry)	306 kg

Final weight and dimensions will depend on completed specification.



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