



Cantium

80 kWe Multi-Fuel CHP Plant

Biofuel / BioGas / Natural Gas



Similar Model Illustrated

Technical Specification

Engine Make & Model	Perkins 1104C-44	Grid Synchronisation	Automatic
Cylinders / Capacity	4 / 4.4 litres	Fuel Used	Plant Oil / UCO
Operating RPM	1500	Fuel System	Twin tank automatic
Dimensions (l/w/h)	2089/1120/1867 mm	Tank Capacity (Bio/D2)	5000 litres / 250 litres
Weight (genset only)	1200 kg	Biofuel Consumption @ (% Load)	22.7 ltr/hr (100%) 17.2 ltr/hr (75%) 12.1 ltr/hr (50%)
Governing	GAC Electronic	Fuel Heater / Filter	Cantium type 8A50
Controls System	ComAp IG-NT	Lube Oil	Renewable 5w-40
G59/2 Relay	ComAp MainsPro		
Communications	Mobile Internet		

Energy Production

Alternator	Leroy Somer LL2014H	Output (@0.8 PF)	80 kW electrical
Alternator Suppression	EN61000-6 standard	Thermal Output	106 kW (90°C Water)
Exhaust Heat Exchanger	Cantium type 190 x 2	Net Efficiency	80%
Buffer Tank	2000 litres	Emissions Control	EGR and AWI * as standard; Eminox SCRT® optional
Jacket Heat Exchanger	Bowman FH200	Min Standard	EU Stage IIIA
Lube Oil Exchanger	Laminova C43-330		

* EGR - Exhaust Gas Recirculation; AWI – Atomised Water Injection

Service and Maintenance

Design Life (engine)	10 years	Service Interval	500 hours
Warranty Period	12 months / 5000 hours	Engine Overhaul	15000 hours

Options

External Acoustic Container

Construction	Welded steel	Dry Weight	~ 5000 kg
Dimensions (l/w/h)	6060/2440/3200 mm	Noise Suppression	56 dba @4 meters

BioFuel/Gas Conversion

Method	Gas Fumigation	Allowable Fuels	Natural Gas / Bio-Methane
Controls	ComAp IntelliDrive BF and DENOX20	Gas Percentage	Variable 0% - 75% of total fuel used



Contact:

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