















Lanarkshire Biomass Fact Sheet Palacerigg Country Park Visitor Centre

Cumbernauld, Glasgow, Lanarkshire G67

Boiler: KWB USV 50kW

Woodfuel specification: W3o/G3o

Facts and figures		
Boiler output	50kW	
Size of fuel store	20 metres³	
Fuel use	23 tonnes p/a	
CO ₂ savings	19 tonnes p/a	
Capital costs	£60,890	
Grant aid	£60,890	



Raw Material

Must be composed of clean, untreated wood products and co-products from the agricultural, forestry and timber processing sectors, and be free of contamination. Expert advice must be sought before using material from other sources.

Particle Size

Chipped woodfuel should be provided according to the G₃₀ grade as set out in the table below:

Parameter	Measurement	G30
Max cross sectional area	cm ²	3
Max length (long thin material)	cm	8.6
Coarse material (max 20%)	Retained by sieve mesh width (mm)	18
Main material (60 – 100%)	Retained by sieve mesh width (mm)	2.8
Fine material (no dust max 20%)	Retained by sieve mesh width (mm)	1
Dust (max 4%)	Passing sieve mesh width (mm)	1



Fuel store and fuel handling: blockwork fuel hopper 3 x 3 x 2.25 (h) steel lid 3 x 3; hydraulic lift spring outfeeder to boiler feed screw

Estimated annual fuel requirement: 23 tonnes @ 25% mc

Estimated max daily fuel use: 0.75m3 @ 25% mc

Expected maximum tariff: 20.00 £/MWh

Expected maximum Operation & Maintenance rate: £650/annum to include for attendances

The above tariffs are purely estimates, and are yet to be ratified in the relevant Wood Heat Supply Agreement.

Boiler Maintenance Schedule

Interval	Task	Action
Daily	Daily visual inspection and check of key parameters recommended but not essential	N\A
Weekly	Check motors for oil leaks; empty ash boxes (3 no); check system pressure	NO
Monthly	Check and clean grate and combustion chamber with vacuum	NO
Quarterly	Clean flue gas sensor and lambda probe	N\A
6-monthly	Check ash and fuel feed drives, air flap servo motors and door switch; check and clean heat exchanger	N\A
Annual	Annual inspection and service	YES
Allowance for call-out within fixed price	Six times per annum	YES