

Lanarkshire Biomass Fact Sheet **Drumpellier Country Park Nursery**

Drumpellier Nursery, Coatbridge,
 Lanarkshire ML5 1RX

Boiler: Fröling Turbomat 220kW

Fuel specification: Woodchip W40/G50

Facts and figures

| | |
|-------------------------|------------------------|
| Boiler output | 220kW |
| Size of fuel store | 44 metres ³ |
| Fuel use | 87 tonnes p/a |
| CO ₂ savings | 71 tonnes p/a |
| Capital costs | £90,359 |
| Grant aid | £90,359 |



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 G50 grade as set out in the table below:

| Parameter | Measurement | G50 |
|---------------------------------|-----------------------------------|------|
| Max cross sectional area | cm ² | 5 |
| Max length (long thin material) | cm | 12 |
| Coarse material (max 20%) | Retained by sieve mesh width (mm) | 31.5 |
| Main material (60 – 100%) | Retained by sieve mesh width (mm) | 5.6 |
| 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 4 x 4 x 2.75m (h) steel lid 3 x 3m; hydraulic lift spring outfeeder to boiler feed screw

Estimated annual fuel requirement: 80 tonnes @ 25% mc

Estimated max daily fuel use: 3m³ @ 25% mc

Expected maximum tariff: £18.00/MWh

Expected maximum Operation & Maintenance rate: £1,750/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 | YES |
| 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 |