

Biomass information requirements

Please supply the following information for the individual biomass boiler(s) to EN303-5 standards or other suitable standard. Nm3 is a common unit of volume used in industry to refer to gas emissions, it stands for Normal cubic meter. (*Normal* in this context means at standard temperature and pressure.)

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| Flue diameter                                 | 250mm exhaust 300mm |
| Stack height (from ground level) | 9990mm |
| Adjacent Building heights                              | 8 metres / 11 metres |
| Flue exhaust gas / thermal efficiency  | 1600C Therm effi 87.8% |
| Thermal input in MW or kW per hour | 1000kw |
| Operating temperature and flow return | 90-1100C  |
| Heatflow | DN150 |
| Operating pressure | 6 bar (min 1.5bar) |
| Exit velocity in m/sec | 16.5kg/s |
| Air Quality gGj-1 | 1.48gGj-1 |
| NOx concentration in mg/Nm3 | 0.97g/GL |
| CO concentration in mg/Nm3 | 49.87mg/Nm3 |
| PM10 concentration in mg/Nm3 | 0.10g/Gj |
| O2 concentration in mg/Nm3 | 7.0mg/Nm3 |
| Sulfur in mg/Nm3 | 0.06mg/m3 |
| Chlorine in mg/Nm3 | 0.02mg/m3 |
| Ash | 1.9% |
| Calorific Value | 5.31kwh/kg |
| Boiler Length / Width / Height sizes in mm | 4670 / 2485 / 4915mm |
| Noise in decebels | None recorded |
| Vibration | None recorded |
| Combustion Chamber Capacity | 6.71m3  |
| Fouling factor | 0.0010m3 kw |
| The exact grid reference of the centre of the site | SP 71561680 |