

# Fröling Factory, Austria, 1MW



For more than four decades Froling has specialised in extracting heat from biomass. Froling produces 23,000 boilers a year and has over 100,000 Froling wood heating systems in use throughout Europe alone.

In 2007 Froling moved into its new 90,000 square metres production plant factory. All Froling operation from product development to the manufacturing of the boilers, is carried out in-house in the new factory.

## Biomass Boiler

The factory is heated by two wood chip boilers, a 1000kW Lambdamat and a 500kW Turbomat.

## Technical Details

- Suitable for burning moist fuel, up to 50% moisture content.
- Screw stoker and conveyor fuel feed system for low grade fuel (up to G100).
- Hydraulic moving feed grate over the entire length of the combustion chamber ensures complete burn out is achieved even with the most difficult fuel.
- Automatic grate pneumatic tube cleaning and ash removal leads to a largely maintenance free operation.
- Typically 90% efficiency achieved due to the Lambdamat high temperature vortex chamber heat recovery construction. Also allows for a clean combustion.
- Froling four stage safety system with combustion chamber temperature monitoring protects the fireclay combustion chamber against unacceptably high temperatures and ensures safe operation.
- Remote maintenance and monitoring service options.

Wood fuelled boilers Biomass energy services District Heating

Tel: 0870 0545 554 www.econergy.ltd.uk e-mail:sales@econergy.ltd.uk



### Project Details

- Boiler room size of 400m<sup>2</sup>, large area for future testing / installation of other boilers.
- Fuel delivered in large trucks (below right picture).
- The fuel store is 10 metres in length, the wood chip is feed into the boiler via two pairs of scraper floor systems.
- The fuel store area is 500m<sup>2</sup> which also feeds into the other boilers.

### Maintenance

Froling systems are the most modern and highly automated boilers on the market. On site operator attendance is therefore kept to a minimum.

Attendance should be no more than an hour or two per week for routine checks, emptying the ash weekly and completing routine monthly checks.

### Fuel Specification

ONORM M 7133 standard, G100 particle size capable of burning 50% or more moisture content.

As well as providing heat and water to the factory, the boiler is used for testing to continually develop Frolings excellent quality products.

