Straw

Fully automatic heating plants 200-1500 kW

www.linka.dk
Linka straw heating plants

The fully automatic system is PLC controlled and monitors its own performance, ensuring optimal operation.

The system can also be controlled and monitored remotely via the Internet.
Shredder drums

Round and big bale shredder – type Mega

Straw transport
The straw is automatically transported to the shredder, where the rotating screw-shaped shredder drums pull the straw from the sides towards the middle of the unit, ensuring effective shredding and thereby accurate feeding (PLC controlled).

A screw transports the shredded straw to a stone trap, where stones, other heavy materials and corn are removed before the straw is sucked into the boiler room.

Fuel utilization
In the water-cooled hearth, which is manufactured from hardened, acid-resistant steel, straw is converted into heat at temperatures of between 1000 and 1200 °C. The hearth and boiler transfer the heat directly to the circulating boiler water.

The effective fuel and combustion air mixture in the hearth ensures complete burning of the fuel, resulting in efficiency levels of up to 90%.

Calorific value
The average consumption of straw with a calorific value of 15.0 MJ/kg (3585 kcal/kg) and a 15% water content is 0.28 kg for the production of 1 kWh of heat energy. 1 litre of fuel oil = 2.8 kg of straw. Ash: 5%.
**Optimal operation and efficiency**

Linka boilers are constructed as traditional 3-pass boilers with a large fire box and horizontal flue gas pipes. The large water capacity of Linka boilers ensures good heat accumulation, which combined with the large heating surface optimises operation and reduces the number of boiler starts.

The large convection section with its smooth boiler flues ensures effective cooling of the flue gases, resulting in efficiency levels of up to 90%.

**Unique and flexible**

The hearth is specially developed for use with biofuels, but if energy policies should change, Linka boilers can be fitted with an oil or gas burner and still achieve the same high levels of efficiency.

**Quality standards**

The boilers meet the following standards: AT (Denmark), SA (Sweden) and TÜV (Germany). The boilers are manufactured from high-quality steel from Europe’s leading steel works.

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