



Wood chips

Fully automatic
heating plants 200-1500 kW

B



Wood chip heating plants

Wood chip heating plant

Hearth

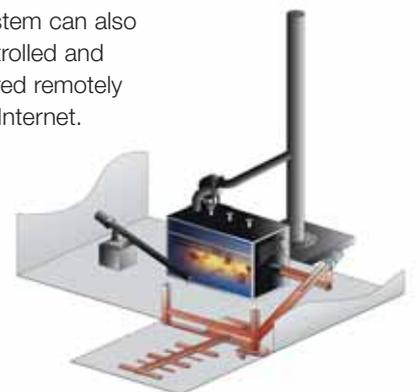


Automatic ash removal



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.



Calorific value

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The average consumption of wood chips with a calorific value of 15.2 MJ/kg (3530 kcal/kg) and a 20% water content is 0.3 kg for the production of 1 kWh of heat energy. 1 litre of fuel oil = 3 kg of wood chips. Ash: 2.5%.



Wood chip heating plant



Fuel utilization

A stair of movable grills is mounted at the front of the boiler; every second step moves whilst the others are stationary. The fuel is transported via a stoker screw, and during incineration is pushed from grill to grill. Heated combustion air is pumped into the chamber from the sides and the base in order to provide optimal turbulence. The boiler transfers 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 93%.

Chip transport

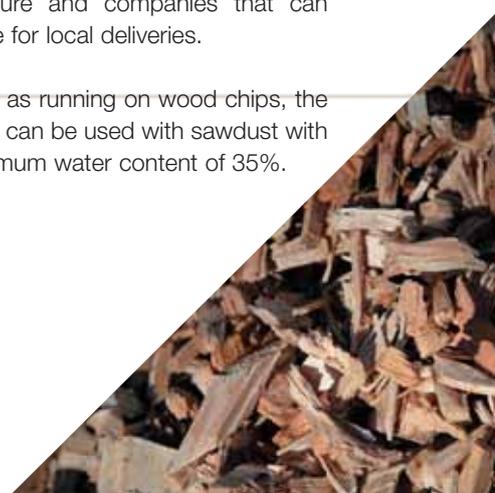
In the chip store, which is positioned adjacent to the boiler room, between three and five hydraulic scrapers are installed on the floor. The scrapers are typically covered by a 2.5 metre layer of wood chips.

The scrapers transport the chips to a horizontal base screw, positioned below the floor, and a diagonal transport screw conveys the chips onwards to the boiler room.

Chips and sawdust

Firing using wood chips is the ideal solution for private households, agriculture and companies that can arrange for local deliveries.

As well as running on wood chips, the system can be used with sawdust with a maximum water content of 35%.





Linka boilers



Linka 70-93 series



Linka H series

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 93%.

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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LIN-KA Maskinfabrik A/S is located in West-Jutland, Denmark. LIN-KA is the leading supplier to the Danish market of high-tech heat production solutions using biofuels. The company employs approximately 30 trained specialists. In the 30 years in which LIN-KA has existed, we have delivered several thousand fully automatic units to customers in Denmark and across Europe.