

Oil and Gas Boilers

# Hot Water (low & high temperature) and Steam Boilers for Oil & Gaseous Fossil & Bio Fuels

Shell & Tube, Panel-wall and Water-tube Boilers up to 50 MW, 55 ton/h and 86 bar-g



Over the last 75 years Danstoker has accumulated extensive knowledge of fire-tube and water-tube boilers in general.

The development and manufacture of these high-performance oil and gas boilers for the energy sector has resulted in Danstoker being one of Europe's leading boiler-makers, featuring a wide range of boilers for the generation of:

- Low temperature hot water (LTHW)
- High temperature hot water (HTHW)
- Steam

Capacities ranging from 800 to 50,000 kW or steam ratings from 200 to 55,000 kg/h at design pressure up to 40 barg and superheated until 450°C.

Special boilers may, if required, be combined with water-tube sections.

The Danstoker Group can deliver water-tube boilers until 100 MW and 100 t/h steam, 86 barg and superheated to 500°C.

The boilers are designed to burn fossil or biomass based gas and/or oil.





Danstoker's extensive range of boilers provides ample possibility of finding *the* Danstoker product best suited to solve the job.

The basis program comprises 3-pass boilers with water-cooled reversing chambers. High capacity boilers are proved in twin-furnace design, for high pressure steam possibly provided with water-tube reversing chambers.

The boiler program also includes smaller reverse-flame boilers for hot water, high temperature hot water and steam (low and high pressure).

The furnaces are dimensioned so as to keep furnace load and temperatures as low as possible, with a view to securing optimal combustion and a minimum of NOx emissions.

The already low radiation loss may be further reduced by providing the boilers with additional cover doors.

Danstoker also makes special boilers, designed to meet specific client needs, e.g. "Combi" or Composite boilers – i.e. directly fired boilers, combined with an indirectly fired section (e.g. from a gas engine) particularly useful if space is limited.

Our experts are able to provide advice and guidance with a view to adjusting and optimizing boilers and auxiliary equipment.

The Danstoker range of products and auxiliary equipment constitute a solid basis for accommodating the clients in terms of economizers, feed-water equipment, blow-down systems, automatic flue gas by-pass dampers, PI-diagrams, etc.



**Intensive innovation makes Danstoker a pioneer within development and manufacture of systems for energy generation**



The Danstoker horizontal and vertical bio-fuel boilers are fire-tube boilers, and if required combined with water-tube sections. Capacities ranging from 200 kW to 24,000 kW or 40 t/h steam up to 86 barg.

Typical fuels would be:

Forest residue, bark, sawmill/construction waste, saw dust, wood pellets, fruit stones, straw, agrifibres or traditional solid fuels.

All boiler are adapted to suit the special characteristics of the fuel to be used, and designed in a close co-operation with the supplier of the combustion and fuel-handling equipment.



During the last decades Danstoker has delivered more than 2500 exhaust gas boiler on a world-wide scale. The boilers are mounted after gas or diesel engines.

Design and development of special boilers and economisers for heat recovery of hot flue gases originating from chemical and industrial processes.

The waste heat is recovered in single, double or triple pass boilers, provided with low-temperature economisers or with integrated superheaters in the steam boilers. Capacities until 35 MW, 55 ton/h Steam. Design pressure up to 32 barg.



The service staff in the Danstoker after-sales division has many years of experience within a broad variety of jobs regarding energy-technical plants, thereby enabling them to provide quick and efficient service on Danstoker boilers as well as on boilers of other makes.

As we are often already acquainted with the plants, we are able to quickly conduct the necessary adjustments and/or repairs.

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One of the greatest challenges that the World is facing within this decade will be to encourage market players to act in a way so as to protect and improve the environment.

At Danstoker we are of the firm belief that there are no conflicting interests between economic development and environment-protection – we must have a common goal now and for the future generations.

Danstoker has elaborated upon their own Environment Charter, based on the Environment Charter of the ICC: "The Business Charter for Sustainable Development - 16 principles".