Exhaust Gas and Waste Heat Recovery Boilers, WHRB

Hot Water (low & high temperature) and Steam Boilers for Exhaust Gas and Waste Heat

Customized Shell & Tube Boilers up to 35 MW, 55 ton/h and 32 bar-g

danstoker
A Thermax Group Company

www.danstoker.com

Danstoker has delivered close to 2500 exhaust gas boilers on a world-wide scale, and hence we have achieved an outstanding experience within co-generation.

The boilers are custom-tailored and mounted after gas or diesel engines for the generation of:

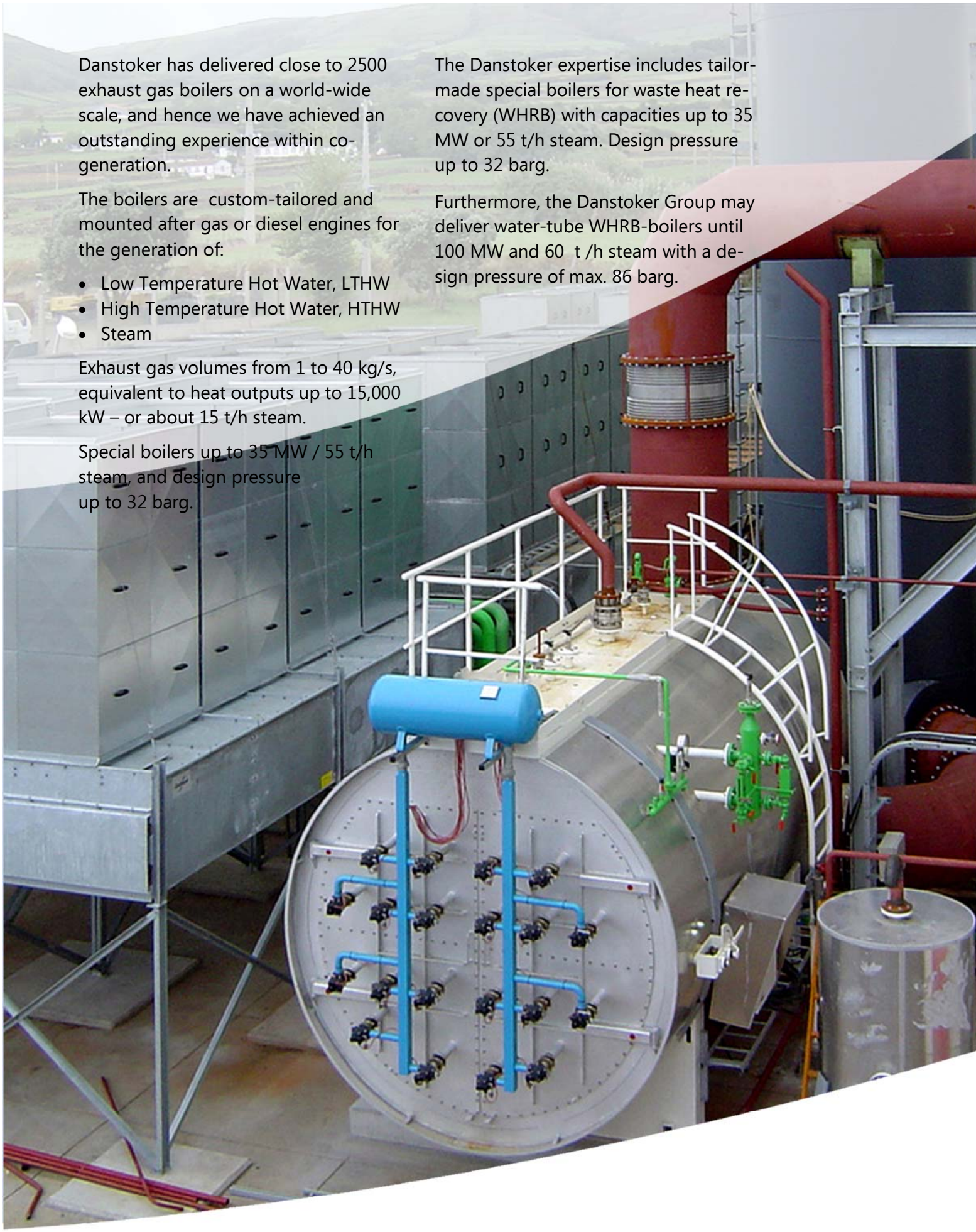
- Low Temperature Hot Water, LTHW
- High Temperature Hot Water, HTHW
- Steam

Exhaust gas volumes from 1 to 40 kg/s, equivalent to heat outputs up to 15,000 kW – or about 15 t/h steam.

Special boilers up to 35 MW / 55 t/h steam, and design pressure up to 32 barg.

The Danstoker expertise includes tailor-made special boilers for waste heat recovery (WHRB) with capacities up to 35 MW or 55 t/h steam. Design pressure up to 32 barg.

Furthermore, the Danstoker Group may deliver water-tube WHRB-boilers until 100 MW and 60 t /h steam with a design pressure of max. 86 barg.



The Danstoker exhaust gas boilers for co-gen are plain tube single or twin-pass boilers, if necessary with an integrated economizer or super-heater.

The boilers are often designed as complete units, comprising a high-temperature and a low-temperature section alike.

With a view to extending the intervals between cleanings, the boilers are entirely of the fire-tube type design.

A specialty is the Combi or Composite boiler: a boiler directly fired by gas with an integrated heat recovery section to utilize the hot exhaust gasses from an engine.

Design and development of special boilers and economisers for heat recovery from hot flue gases origina-ting 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 super-heaters in the steam boilers.

Horizontal or vertical, indirectly fired boilers exploiting the energy from furnaces, killns, incineration, gasification and chemical processes.

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

Typically, the boilers are fitted with the Danstoker automatic pneumatic cleaning system, type Danblast.

"Danstoker develops and custom-tailors individual boilers for exhaust gas and heat recovery solutions

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.

The development and manufacture of high-performance oil and gas boilers for the energy sector has made Danstoker known as one of Europe's leading boiler-makers, featuring a wide range of shell and tube boilers with capacities ranging from 800 to 50,000 kW or 0,2 to
55 ton/h steam up to 40 barg and superheated unto 450˚C.

Special boilers as combined watertube-radiation section with a firetube convection section until 50MW, 55 ton/h steam at max. 86 barg and superheated unto 500˚C.

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.

Contact: service@danstoker.com

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".