

Industrial Heat Exchangers

Preheating • Heat recovery • Heating • Cooling • Condensing

Flue gasses / Air up to 350 °C • Design Pressure up to 26 bar (g)



Backed by more than 50 years' experience, and as one of the leading and recognized manufacturers in Denmark, Danstoker can offer heat exchangers for industrial processors and power/heat generating plants for:

- Preheating
- Heating
- Heat recovery
- Condensing
- Cooling

The exchangers are dimensioned to customers' individual requirements. Danstoker will perform the thermal calculations to energy optimize the exchangers. All materials are selected to match the current media.

Nearly all types of production process generate excess heat. This heat can be utilized if purpose-designed heat exchangers are used.

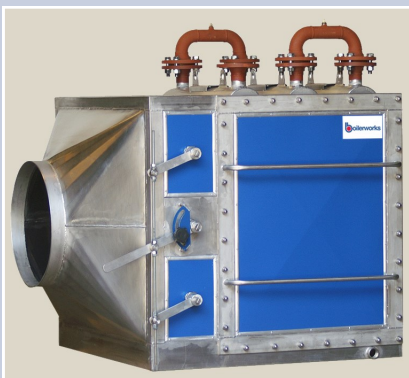
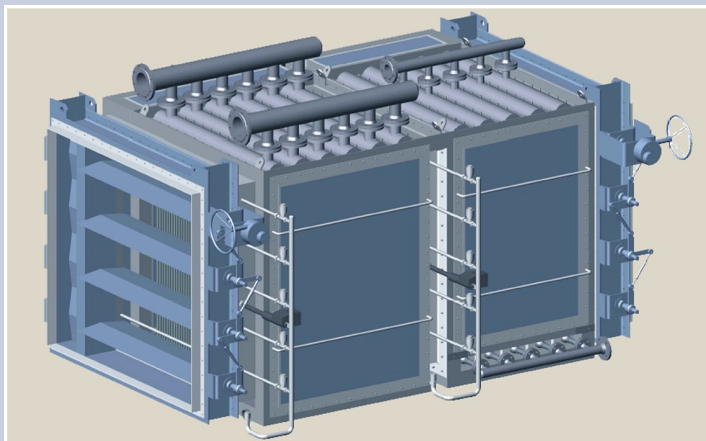
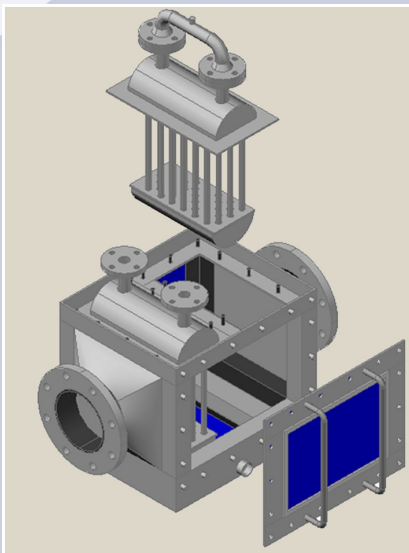
Typical applications may include:

- District heating plants
- Processing industries
- Chemical industries
- Food-processing industries
- Timber and furniture industries
- Oil refineries
- Biomass plants



Mini economizer for bakeries or similar small enterprises generating waste heat.





Customer benefits:

- Customized design matching requirements and space
- Customized modular heating surface
- Material selection matching operating conditions
- Short lead times
- Reduced energy consumption, improved environment
- Easy access to cleaning and simple maintenance
- Over 50 years' experience

Typical technical data:

- Design pressure: from 2 to 26 bar (g)
- Water temp.: from 0 to 228 °C
- Flue gas temp.: from 0 to 350 °C

On request the design, even of the connections, can be customized to the plant thus simplifying installation and minimizing on space requirements.

Condensing exchangers:

Cooling flue gasses to below the dew point enables fully condensing operation.

Typically used in district heating plants, where flue gasses do not carry with them Cl or SO(x) residues, such as, for instance, natural gas or LPG.

Feed water pre-heaters:

A feed water pre-heater upstream of the boiler increases efficiency considerably. Return or feed water for a steam boiler is heated by the flue gasses from the boiler.

Pre-heating or cooling:

Heat exchangers are widely used to pre-heat/cool process air.

The medium may be hot water, steam or for instance cooling water.

The exchangers are often incorporated to pre-heat combustion air, heat process air or they are connected to drying chambers.



Danstoker will customize to individual requirements



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 50,000 kW or 68 t/h steam up to 43 bar-g.

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 28 bar-g.



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 boilermakers, featuring a wide range of shell and tube boilers with capacities ranging from 800 to 50,000 kW or 0,2 to 68 ton/h steam up to 43 bar-g and superheated unto 450°C.

Special boilers may, if required, be combined with watertube-radiation sections.



The service staff in the Danstoker's after-sales division have many years of experience within a broad variety of jobs regarding energy-technical plants, enabling them to provide quick and efficient service on Danstoker boilers as well as on boilers of other makes. Danstoker is servicing the Thermax absorption heat pumps and chillers.

The service organization includes personnel equally capable of providing expert technical advice and practical technical services. As we are often already acquainted with the plants, we are able to quickly identify the problem and conduct the necessary adjustments and/or repairs.

Contact: service@danstoker.com