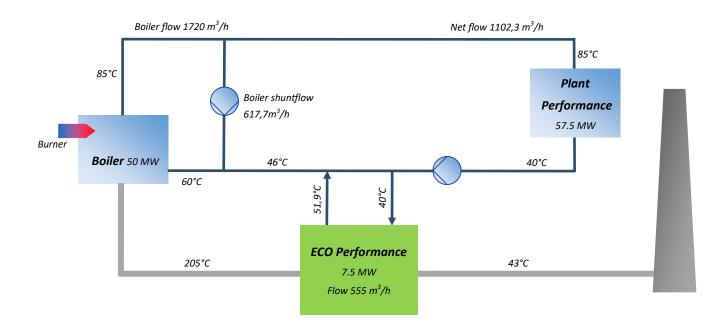


## **Process description**

The flue gas temperature after the boiler is 205°C and still contains a large amount of energy that that can be used to increase the plant's performance and efficiency.

In the economizer the flue gas is cooled from 205°C to 43°C, which is 3°C above the return temperature from the district heating, at that temperature the flue gas is condensing and the efficiency of the plant exceeds 100%



## Yearly utilization of district heating:

- 1200 household energy consumption
- 7,5 MW utilization from waste heat
- Increased Efficiency from app. 93 % to 105 %

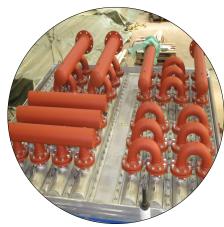


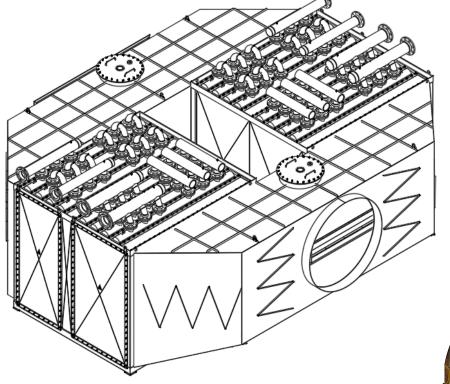
## **Danstoker Flue gas Economizer**

The Flue gas condensing Economizer is engineered, designed and manufactured by Danstoker A/S

The illustration shows the design of a Economizer for utilization of waste heat to district heating

Performance 7.5 MV	V
Flue gas flow 65.316 Nm <sup>3</sup> /h	
Flue gas flow 80.992 kg/h	
Flue gas temp. in 205 °C	
Flue gas temp. out	
Condensate 4.920 kg/h	
Water flow 555 m <sup>3</sup> /h	ì
Water temp. in 40 °C	
Water temp. out 51.9 °C	











Danstoker designs after clients requirements.

