



# Economiser & Flue gas cooler



*Ekströms Värmeteknika AB deliver tailor made flue gas heat exchangers for all kind of fuels.*

*An Economiser with resistance welded rectangular fin tubes from Ekströms is often the natural choice for solid fuel, oil fired boilers or industrial processes.*

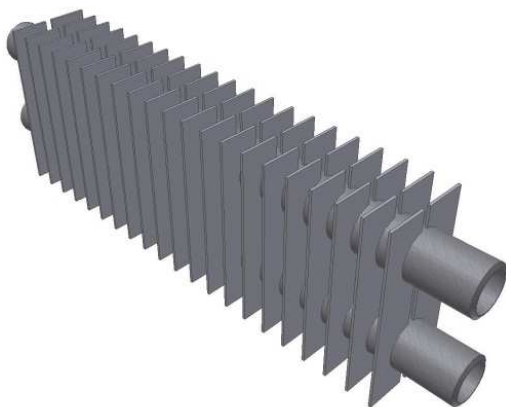
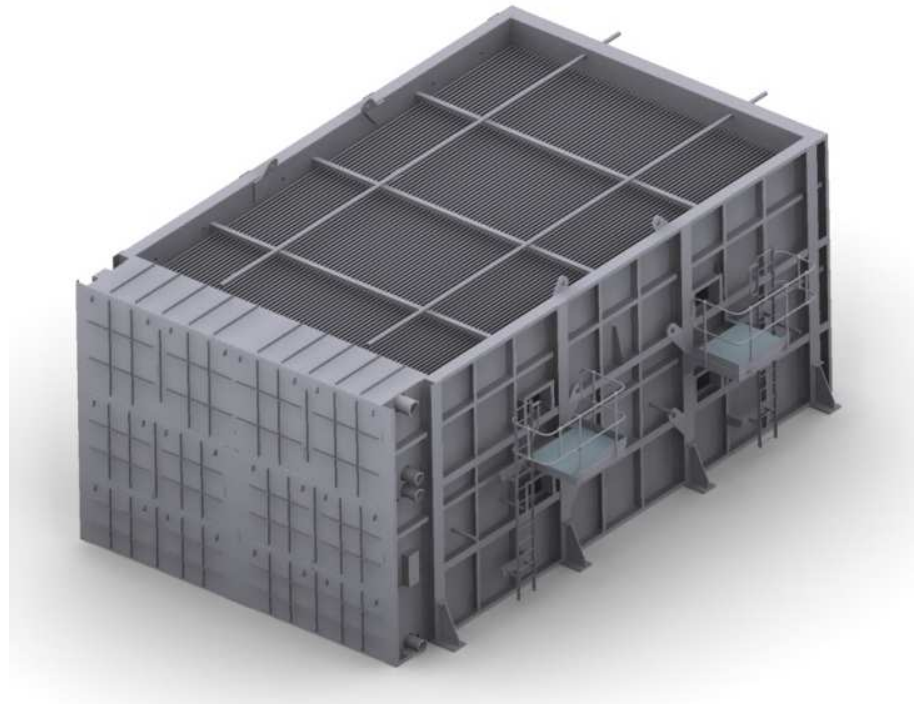


Economizers or Flue gas coolers from Ekströms Värmetekniska AB are used not only for power boilers but also as heat recovery units for many industries to increase the efficiency of the overall process.

Range of economizer-sizes covers from small hot water boilers to large power boilers.

Ekströms Värmetekniska AB provides the complete design of the heat exchangers with the thermal and mechanical calculations but can also manufacture according to customers design.

The choice of heat recovery surface and materials of construction are carefully selected to suit the fuel and the operating conditions. The selection may be plate fin, cast iron, spiral fin or plain tubes. The material is mainly carbon steel but can also be partly or complete in stainless steel.



An economiser with resistance welded rectangular fin tubes from Ekströms Värmetekniska AB is often **the natural choice for solid fuel, oil fired boilers or industrial processes.** It combines the flexibility in shape, geometry and materials in relation to fuel type, dust load and temperatures.



**In line arrangement of tubes and fins gives easier maintenance and cleaning.**

This kind of heat exchanger weight less and gives a more compact design compared with plain tubes, which also means reduced investment costs.



*Finned tube Economiser coil manufacture.*

The Economisers can be delivered as complete units with casing and headers or as welded coils with supports typically on larger units that are assembled on site.

If required, the tube bundles can be sprayed with a preservative coating for corrosion protection during transport.



*Economiser unit ready for delivery*

The economiser and flue gas coolers are designed and manufactured in accordance with recognised international boiler standards, such as EN12952 or EN13445.

Both engineering work as well as workshop activities are controlled in accordance with ISO 9001:2015.

Our workshop has also an environmental management system that fulfils the requirements of SS-EN ISO 14001:2015 with respect to manufacture involving advanced welding techniques, sheet metal working, machining and surface treatment to a complete detail or product.

Welding processes, manual as well as automatized, are quality approved according to ISO 3834-2:2005.



*Economiser unit ready for hydro test in workshop, test pressure approx. 400 bar.*

Ekströms Heat exchangers are manufactured in modern workshops in Alvesta, Sweden with access to a lot of machinery such as tube bending and laser cutting machines.

All products are designed and manufactured in accordance with recognised international standards and CE-marked according to European pressure equipment directive, EU/PED 2014/68/EC.

