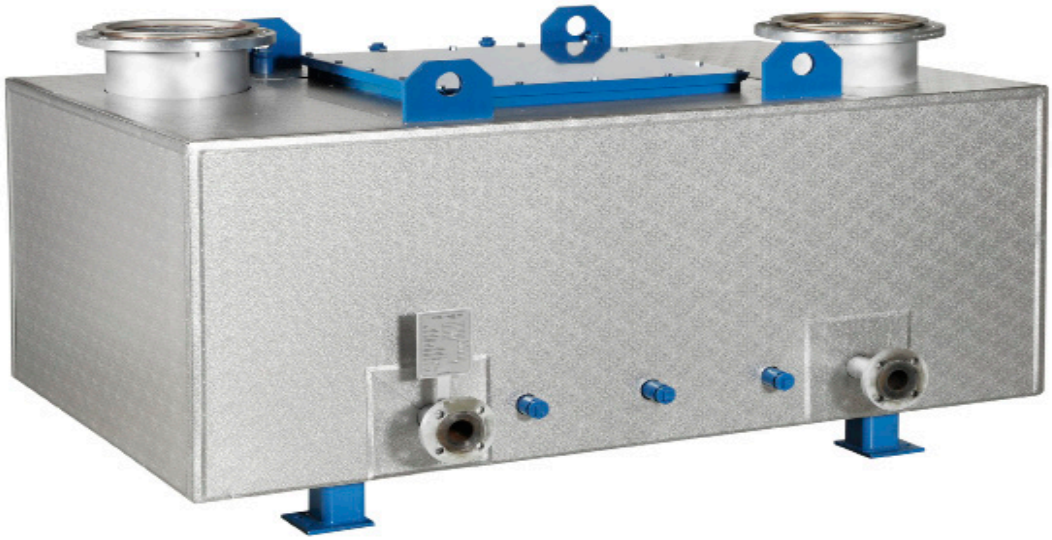
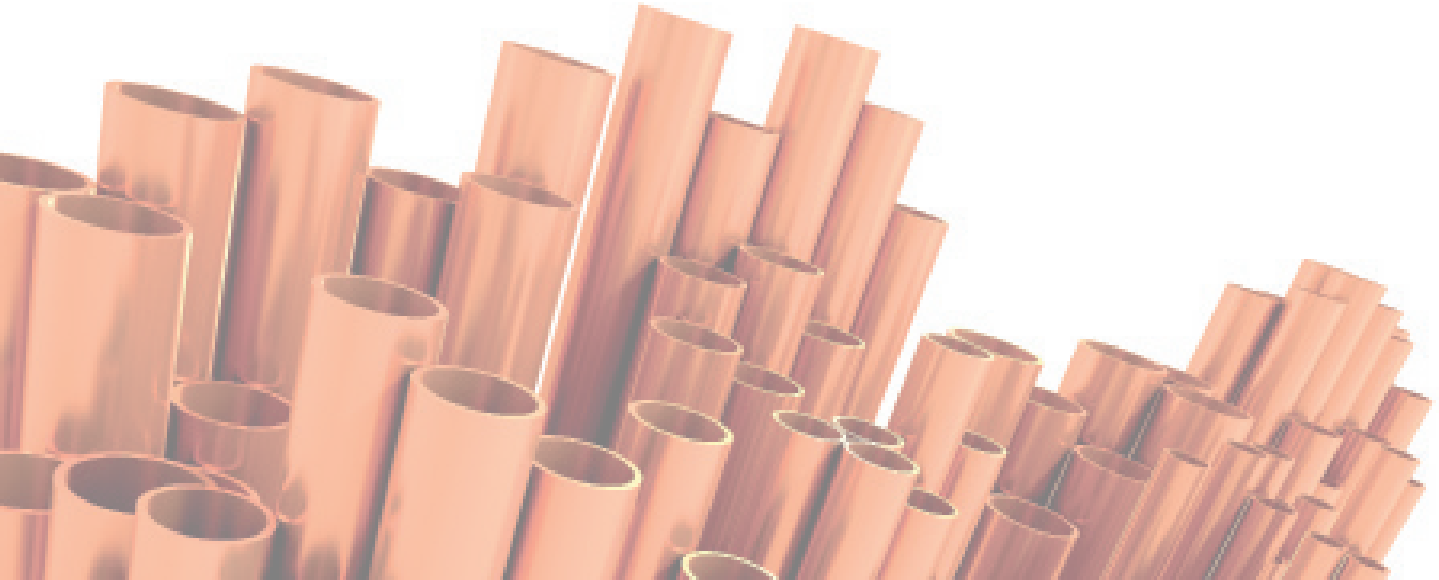
ECONOMIZERS





EKOCOIL

EINO TALSI ECONOMIZER
IMPROVES PROCESS EFFICIENCY

Eino Talsi, member of Ekocoil Group, has for decades specialized in developing and manufacturing finned tube products. Energy efficiency as well as being environmentally friendly are key in the design and manufacturing process. The products improve process efficiency, thus offering energy savings and reducing costs.

We take care of the whole design and manufacturing process from start to finish and can guarantee flexible and reliable service. We follow certified ISO-9001, ISO-3824-2 and Pressure Equipment Directive (PED) module D standards in our production.

ECONOMIZERS

The Eino Talsi Economizers have several applications in improving energy efficiency. On example is energy recovery from combustion gas in a boiler.
The combustion gas coming out from a boiler carries a lot of heat. Economizers can be attached to the boiler to recover this heat before it exits to the air. The heat is then utilized for heating the feed water of the boiler. Economizer is placed to the combustion gas passage between the exit from the boiler and the entry to the chimney. This decreases both fuel consumption and emission.

Economizer improves the overall process efficiency and the utilization rate of the boiler. Payback time on investment can be as short as a few months. Other applications for economizers include:

- Bakeries & cleaners
- Printing houses & wood processing
- Food industry

Eino Talsi Economizers are extremely durable and thus are the most competitive choice based on life-cycle costs.

EXAMPLES IN NATURAL GAS USAGE

	Flue Gas		District Heating Water		
Boiler efficiency (MW)	**Mass flow (kg/s)**	**Inlet temperature (°C)**	**Outlet temperature (°C)**	**Input temperature (°C)**	**Economizer Power (kW)**
1	0.44	230	85	70	74
2	0.88	230	85	70	148
4	1.76	230	85	70	296
8	3.52	230	85	70	592
10	4.4	230	85	70	740
12	5.28	230	85	70	888

SHORT PAY BACK PERIOD

EXAMPLE:

Boiler Power = 15MW
Ekonomizer Power = 772 kW
Energy savings = 3088 MWh/a

Cost Savings = ~154 400 €/a

Economizer pay back period: ~3kk

Eino Talsi Economisers are always designed, customized and manufactured to suit customer needs and facilities. They are available with or without an in-built combustion gas bybass flue and they are always delivered completely ready for installation with isolation and plating.
When using with a boiler, all that needs to be done is to attach Economizer to the combustion gas passage or to the water network.

The Eino Talsi Economiser is already used in dozens of power, energy and other industrial facilities.

EKOCOIL is one of the leading manufacturers of finned coils in the Nordic region. Our extensive product portfolioalso includes air to air plate heat exchangers, dry coolers, condensers and evaporators and coolers.

Our products are easily customized and optimized. They have a wide variety of applications in different types of conditions and environments. Our Sales will help with planning and dimensioning.

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