



# eneva

Energy Engineering

# FLUE GAS ECONOMIZERS



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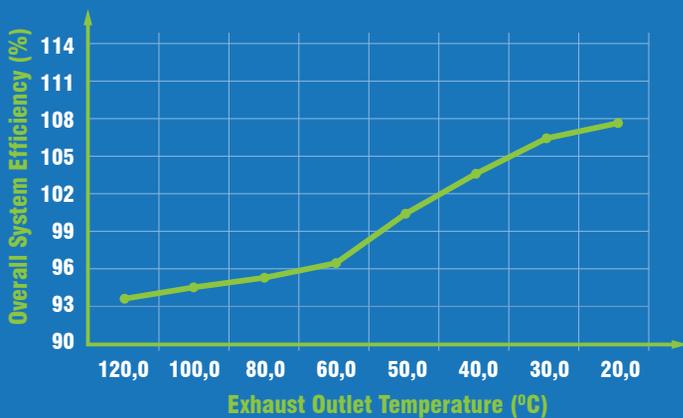
Economizers are the units that play a key role in the recovery of low temperature waste heat in unused flue gas streams in order to increase system efficiency. Depending on the fuel and combustion excess air coefficient, every 15-21 oC drop in flue gas temperature means 1% saving in system fuel consumption. With condensing economizers it is possible to achieve a total efficiency more than %100.

In addition to the increase in efficiency, especially the feedwater economizers contribute to the formation of a more homogeneous water circulation circuit in the boilers, preventing thermal shocks and helping to extend the boiler life.

Our proven economizer designs provide high efficient, reliable and user friendly operation for your plant.



## EXHAUST OUTLET TEMP. vs THERMAL EFFICIENCY



## PRODUCT SPECIFICATION

- Water tube, finned tube and smoke tube construction according to application
- Conventional or condensing (Stainless) types for higher efficiency
- Custom designed vertical or horizontal types up to space requirements
- Design and manufacturing up to 10 MW thermal capacity and 50 barg pressure
- Carbon steel, stainless steel or thermoplastic options up to demand
- Optimized back pressures and compact heat transfer surface
- EN 12952 - 2014/68 EU PED CE certification (up to request)
- User friendly design with easy maintenance and cleaning
- Automatic soot blowing up to request

## DELIVERY OPTIONS

- Armature and instruments according to EN 12952 norm
- By pass damper and actuator (pneumatic or electrical driven)
- Access doors with heat insulation
- Manual damper lever and lifting lugs
- Soot blowers up to request

## COMMON APPLICATIONS

- Boilers stacks (for steam, hot water or thermal oil boilers)
- Process stacks (for drying, cooking and solvent burning)
- Cogeneration systems (Gas engine, gas turbine)
- Cement and gypsum furnace stacks
- Naval engine stacks

