



# eneva

Energy Engineering

# RECUPERATOR AIR PREHEATER

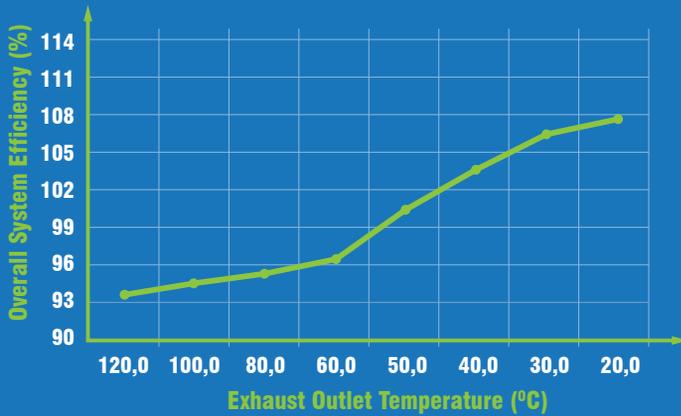
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# RECUPERATOR (AIR PREHEATER)

- Recuperator or air preheater is used to preheat combustion air by recovering flue gas of boilers or other sources.
- Depending on the fuel and combustion excess air coefficient, every 15-21 °C drop in the flue gas temperature means 1% saving in fuel consumption.
- Especially thermal oil boilers are widely utilise recupeators to recover flue gas waste heat.
- Differing from water heating economizers, by installing a recuperator one can make an huge profit as long as boiler is in operation.
- ENEVA recuperators are designed with carbon steel/stainless steel or combined type materials.



## EXHAUST OUTLET TEMP. vs THERMAL EFFICIENCY



## PRODUCT SPECIFICATION

- Conventional or condensing types for higher efficiency
- Design and manufacturing up to 10 MW thermal capacity
- Carbon steel, stainless steel or combined options up to design
- Optimized back pressures and compact heat transfer surface
- User friendly design with easy maintenance and cleaning
- Automatic soot blowing up to request

## DELIVERY OPTIONS

- Armature and instruments according to norm
- By pass damper and actuator (pneumatic or electrical driven)
- Access doors with heat insulation
- Soot blowers up to request
- Manual damper lever and lifting lugs
- Hot air ducting and compensator for fan/burner connection

## COMMON APPLICATIONS

- Boilers stacks (Steam, hot water, thermal oil, etc)
- Coal fired boiler or power plant stacks
- Process stacks (Drying, cooking)
- Cogeneration systems (Gas engine, gas turbine)
- Cement and gypsum furnace stacks
- Naval engine stacks

