

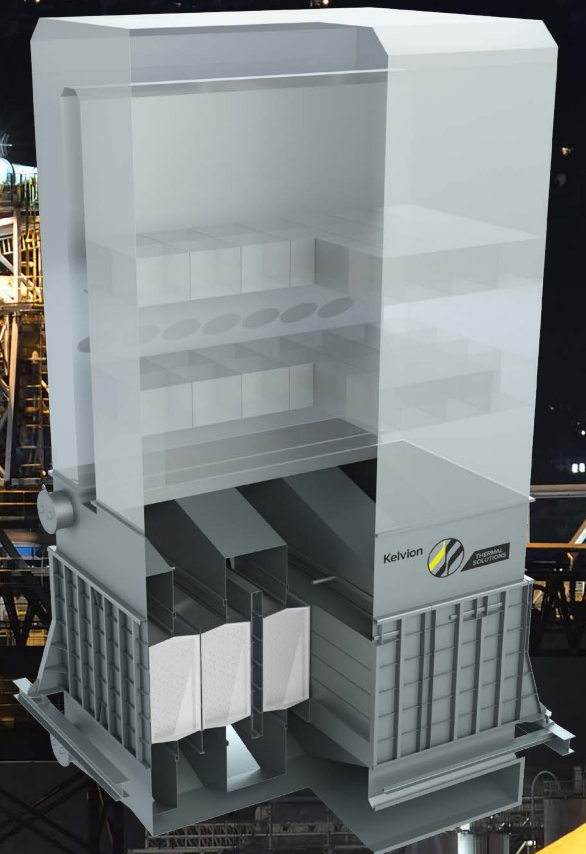
Kelvion



THERMAL SOLUTIONS

Fully Welded Heat Exchanger

WAVE RECUPERATOR FOR SCR-PLANTS: MINIMIZE YOUR OPERATING COST



HEAT RECOVERY

WAVE RECUPERATOR: EMISSION IMPOSSIBLE

Developed specifically for high-efficiency heat recovery systems.

TYPICAL APPLICATIONS

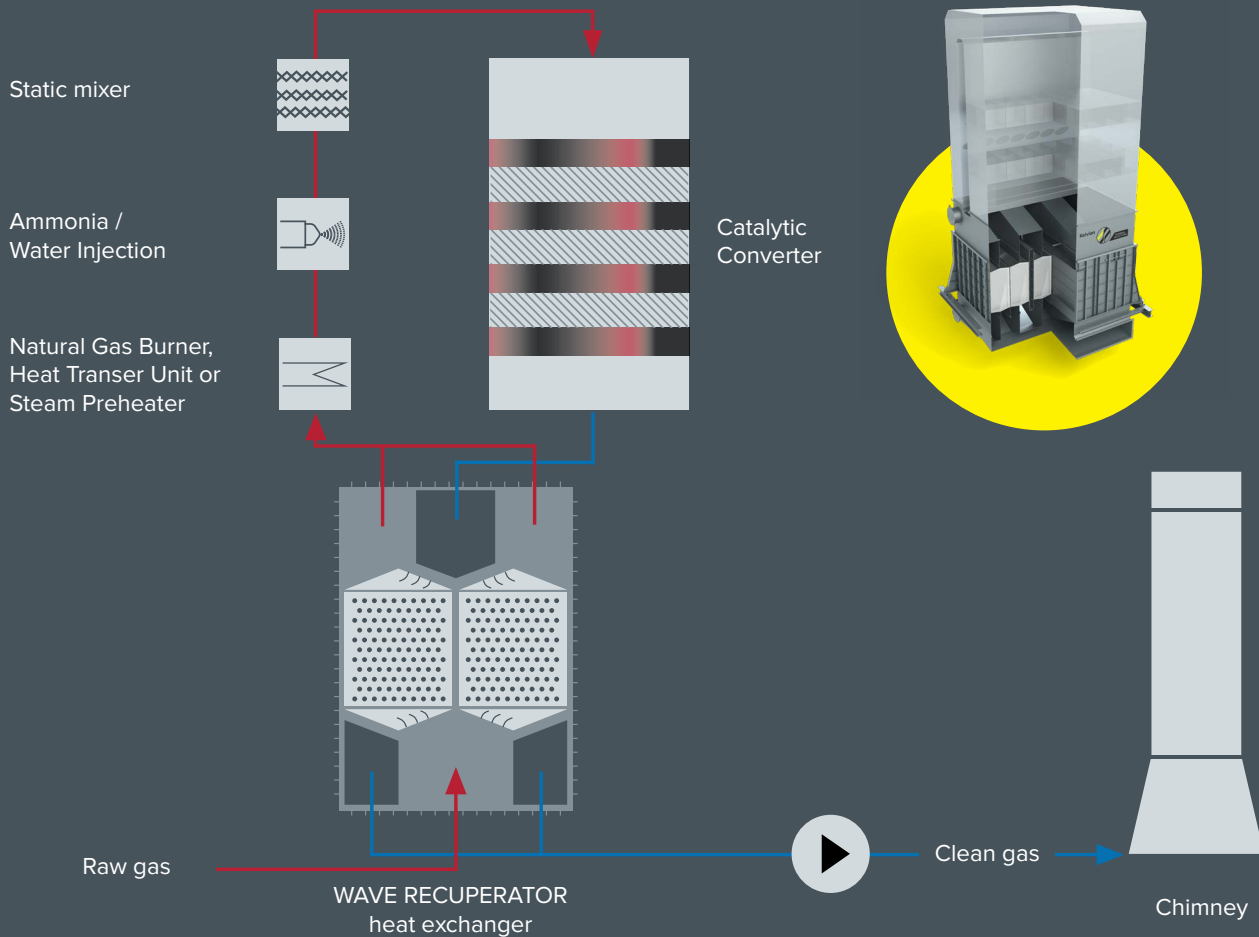
- ▶ Waste incineration
- ▶ Biomass fired plants
- ▶ Sinter plants
- ▶ Cement factories
- ▶ Power stations
- ▶ Steelworks
- ▶ Refineries

ADVANTAGES

- ▶ **CAT reactor** can be placed directly on top of WAVE RECUPERATOR
- ▶ **Leak-free***: Recuperative Welded Plate Heat Exchanger
- ▶ **Maximum heat recovery**: Counter flow design, Increased turbulence
- ▶ **Easy to clean**: Manual cleaning with pressured air lance
- ▶ **Simple and easy to upscale**: Modular design
- ▶ **Small footprint**: very compact, light weight
- ▶ **The SCR Reactor can be carried by the WAVE RECUPERATOR**
no additional (cold) steel structure needed

*99,9% leak-proofness

EFFICIENT NOX REDUCTION WITH **WAVE RECUPERATOR**



PRACTICALLY INDISPENSABLE

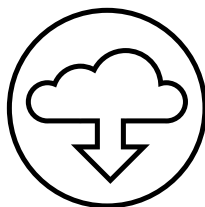
The recuperative gas preheater technology has proven its practical value on a large scale.

In a selective catalytic reduction (SCR) nitrogen oxides are converted to nitrogen and water by adding ammonia WAVE RECUPERATOR as the central unit in a special flue gas purification plant enables a minimum input of primary energy.

The major share of energy for this process is recovered from waste heat, with the reliable support of the WAVE RECUPERATOR. The heat recovery rate is up to approx. 90%.

This figure speaks for itself and for the efficiency and innovative performance of the WAVE RECUPERATOR.

www.kts.kelvion.com



VERSATILITY IN THE SMALLEST SPACE

As far as space is concerned the compact SCR flue gas denitrification (DeNOx) offers a wide range of opportunities:

The catalytic converter housing can be loaded directly on top of the heat exchanger flanges. Or the heat exchanger can be fitted, hanging directly below the SCR housing.

Using the compact DeNOx-System WAVE RECUPERATOR is installed in a self-supporting housing. On top of the housing the CAT is mounted.

Platforms, ladders and stairs can be affixed directly to the WAVE RECUPERATOR. A further steel structure is not necessary.



CONVINCING PROPERTIES

WAVE RECUPERATOR solution also offers up to 50% space savings, with the same performance, compared to a conventional tubular heat exchanger.

WAVE RECUPERATOR features a reduced operating weight, size and therefore a much simpler integration into existing plants.