COKERY

PROCESS EQUIPMENT FOR THE COKE OVEN GAS TREATMENT
PROCESS EQUIPMENT FOR THE COKE OVEN GAS TREATMENT PLANT

**Heatex® HXE...**
- High efficiency
- Compactness
- No gasket
- Easy access for cleaning
- Available in carbon steel, stainless steel, nickel alloys, titanium.

...to solve process issues of primary gas cooler
- Heavy fouling problem
- Reduction of heat exchange surface
- Applicable for spray tube or horizontal tube cooler.

Blast furnace gas from steel works → Coke oven batteries → Primary gas cooler → Electrostatic tar precipitator → Gas exhauster
**Heatex® HXE…**
- High efficiency
- Compactness
- No gasket
- Easy access for cleaning
- High shear stress at wall decreasing fouling
- Available in titanium, nickel alloys, stainless steel.

**Column**
- Distillation column
- Stripping column
- Gas scrubbing column
- Available in titanium, nickel alloys, carbon steel, stainless steel.

**BTX distillation**

- The removal of benzene, toluene and xylene (BTX) requires corrosion resistant column.
- The heating of BTX before entering into desorber needs specific design of heat exchangers.

**H⁴S/NH³ scrubbing**

- The removal of hydrogen sulfide and ammonia (H⁴S/NH³) requires specific design of scrubbing columns.

**Stripping De-acification**

- Stripping column
- Corrosion resistance
- Available in titanium, nickel alloys, stainless steel.

**Heatex® HXE…**
- High efficiency
- Compactness
- No gasket
- Easy access for cleaning
- High corrosion resistance due to solution in nickel alloys and titanium

**Column**
- Stripping column
- Corrosion resistance
- Available in titanium, nickel alloys, stainless steel.

**Ammonia water is very corrosive**
- Fouling problems as the scrubbing water still contains some tar and naphtalene

**Gas compression**
- Gas pipeline

**…to solve process issues of BTX distillation**

- **…to solve process issues Ammonia removal**
• 15-years of experience of coke oven gas process requirements to ensure optimized design of heat exchangers

• Large portfolio of technologies and materials

• Worldwide and dedicated manufacturing sites:
  - Shanghai (China), Brignais and Pagny-sur-Moselle (France), Salem and Oxnard (USA): welded plates heat exchangers, shell and tubes heat exchangers and columns

• Worldwide service close to our customers upon:
  - Workshops
  - Engineers

• Strong worldwide references upon request

A GLOBAL PLAYER

Mersen is a global expert in materials and solutions for extreme environments as well as in the safety and reliability of electrical equipment. Mersen designs innovative solutions to address its clients’ specific needs to enable them to optimize their manufacturing process in sectors such as Energy, Transportation, Electronics, Chemicals, Pharmaceuticals and Process Industries.

A worldwide specialist in anticorrosion and process equipment

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