

Agip Petroli - Gela

Gas-Gas Heater for SNOX Plant



In 1997 BWSC (then:BWE) was awarded contract from Snamprogetti, Italy for the delivery of a Gas-Gas Heater (GGH) for installation in a new combined deSO_x and deNO_x plant a so-called SNOX plant. This plant cleans the flue gases from a coke-fired power station at the Agip Petroli owned Gela refinery at the south coast of Sicily.

The GGH is used to preheat the untreated flue gas to the temperatures required for the conversion reactions in the process by exchanging heat with the hot converted flue gas.

The GGH is of the rotary regenerative type with a matrix of heating elements which transfers the heat by alternately being heated by the treated gas and cooled by the converted gas.

The GGH is provided with an automatic, sensor controled, radial sealing system and in addition also a leakage minimization system, which reduces the leakage of untreated gas to the converted gas side to less than 1.5 percent.

Performance Data:

Duty: 70,000 kW

Untreated Flue Gas:

Flow, inlet 368 kg/s
Temperature, inlet 221 °C
Temperature, outlet 397 °C

Converted Flue Gas:

Flow, inlet 378 kg/s
Temperature, inlet 422 °C
Temperature, outlet 258 °C

Dimensions:

Type: GVID 34.0 / 2500

Rotor diameter 16.86 m
Rotor height 2.80 m
Rotor speed 0.8 min⁻¹
Hot end elements DU
Height 1100 mm
Cold end elements DU
Height 1100 mm
Heating surface 85,230 m²

Total weight 780 tons

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