

Sulcis Power Station

Gas-Gas Heater for deNOx Plant



In 1998 BWSC (then:BWE) was awarded contract from STF S.p.A., Italy for the delivery of a Gas-Gas Heater (GGH) for installation in a new deNOx "Tail-end" plant. This plant cleans the flue gases from a coal-fired power station at the Enel owned Sulcis Power Station at Porto Scuso, Sardinia, Italy.

The GGH is used to preheat the untreated flue gas to the temperature required for the NOx-conversion reactions by exchanging heat with the hot treated 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 untreated 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 treated gas side to less than 0.5 percent.

Performance Data:

Duty: 80,000 kW

Untreated Flue Gas:

Flow, inlet 289 Nm³/s

Temperature, inlet 108 °C

Temperature, outlet 295 °C

Treated Flue Gas:

Flow, inlet 304 Nm³/s

Temperature, inlet 322 °C

Temperature, outlet 139 °C

Dimensions:

Type: GVD 35.5 / 2250

Rotor diameter 19.45 m

Rotor height 2.50 m

Rotor speed 0.8 min⁻¹

Hot end elements CU

Height 1200 mm

Cold end elements DU

Height 1050 mm

Heating surface 142,304 m²

Total weight 1000 tons

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