

Honam Units 1 - 2



2 Gas-Gas Heaters for FGD Plants



In 2009 BWE was awarded a contract from the Korean contractor Halla Energy and Environment for the delivery of two GGHs to be installed as part of new flue gas desulphurization plants (FGD) at the Korean East West Power Company (EWP) owned power station Honam.

The GGH is used to reheat the treated flue gas in order to secure the necessary lift of the flue gas. The heat for this reheating is taken from the hot untreated flue gas entering the FGD plant and thereby cooling the gas.

The GGH is of the counter-flow rotary regenerative type with a matrix of heating elements transferring the heat by alternately being heated by the untreated gas and cooled by the treated gas. The heating elements are protected against corrosion and erosion by an electrostatically applied vitreous enamel coating.

Soot blowers are installed above and below the heating elements in order to clean the surface periodically. The soot blowers are fully retractable, multi-fluid blowers, which can use steam for normal

cleaning and high pressure water for cleaning in extreme cases.

The GGH is provided with an automatic, sensor controlled sealing system for the lower radial sector plates ensuring very low leakage of untreated gas to the treated gas side. In addition, the GGH is equipped with a leakage minimizing system purging untreated gas out of the rotor sector before it enters the treated gas side.

World leader in steam power technology

Burmeister & Wain Energy A/S has specialized in the development and design of advanced steam boiler plants for utility and biomass fired power stations.

Furthermore, BWE designs a wide range of auxiliary power station equipment such as the BWE Low-NOx coal/oil/N-gas/biomass burners, Air Preheaters and Gas-Gas Heaters.

BWE is part of the Italian STF S.p.A. Group.

Performance Data:

Untreated Flue Gas:

Flow, inlet 283 Nm³/s
 Temperature, inlet 140 °C
 Temperature, outlet 98 °C

Treated Flue Gas:

Flow, inlet 288 Nm³/s
 Temperature, inlet 50 °C
 Temperature, outlet 91 °C

Dimensions:

Type: GVI 30.5 / 600

Rotor diameter 12.13 m
 Rotor height 900 mm
 Rotor speed 1.0 min⁻¹
 Heating elements UNF+E
 Height 600 mm

Leakage < 1.0 %

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