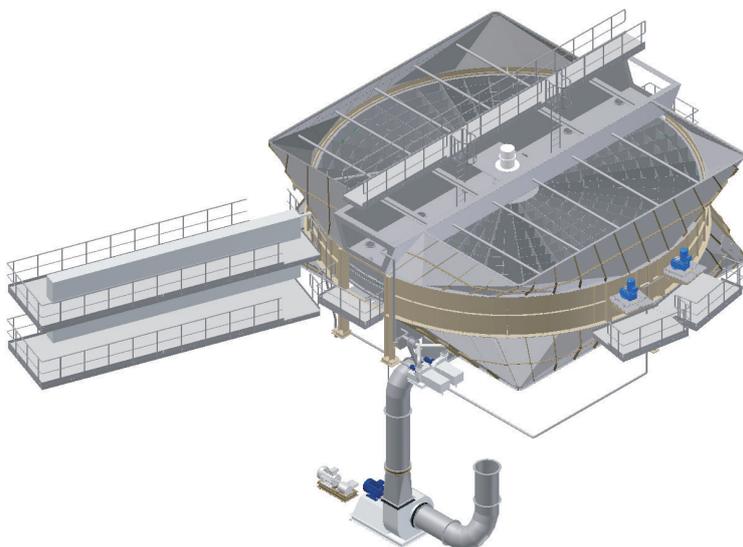


# San Filippo del Mela

## 1 Gas-Gas Heater for FGD Plant



In 2007 BWSC (then:BWE) was awarded a contract from the Italian contractor Termokimik Corporation for the delivery of a GGH to be installed as part of the new flue gas desulphurization plant (FGD) at the Edipower owned power station San Filippo del Mela in Sicily, Italy.

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 electrostatic 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 BWSC fully retractable, multi-fluid blowers, which can use both compressed

air 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.

### Performance Data:

#### Untreated Flue Gas:

Flow, inlet 342 Nm<sup>3</sup>/s  
 Temperature, inlet 137 °C  
 Temperature, outlet 78 °C

#### Treated Flue Gas:

Flow, inlet 352 Nm<sup>3</sup>/s  
 Temperature, inlet 47 °C  
 Temperature, outlet 105 °C

### Dimensions:

Type: GV 32.5 / 1250

Rotor diameter 14.66 m  
 Rotor height 1,405 mm  
 Rotor speed 1.0 min<sup>-1</sup>  
 Heating elements UNF+E  
 Height 1,250 mm

Leakage < 0.6 %

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