

# BERTSCHenergy

Power plants  
Process equipment

95  
YEARS

TRADITION  
QUALITY  
KNOW-HOW  
SINCE 1925

## Process Heat Recovery System for Sulfuric Acid Production

Reference Sheet



**BERTSCH**

TRADITION, QUALITY, KNOW-HOW. SINCE 1925

## »Complete process heat recovery systems in Venezuela and the Ukraine - Commissioning 1<sup>st</sup> quarter 2011 «

Sulfuric acid is one of the most important basic chemicals for the production of fertilizers, construction materials, explosives, detergents, batteries and dyes. Sulfuric acid is primarily manufactured through contact method (combustion of sulphur, oxidation, conversion into acid).

Our heat recovery system carefully cools the different process gas flows to the necessary temperatures and generates steam and so valuable energy from the heat.

**Our know-how with heat engineering and our compact constructions are serving worldwide.**



### 2 complete process waste heat systems



#### TECHNICAL DATA

» Design-code	AD 2000 + Gost
» Process gas flow 100% load	2343,000 resp. 145,000 m <sup>3</sup> n/h
» Thermal power	117 resp. 76 MW
» Steam output	165 resp. 96 t/h
» Design pressure steam generator	41 resp. 59 barg
» Steam temperature at battery limit	380 resp. 460°C
» Weight main component	175 resp. 128 t



#### SCOPE OF SUPPLY

» Evaporator system (boiler, drum, downcomers and risers)
» Superheater
» Economiser
» Feed water supply
» Connecting pipes
» Fittings
» Steel structure for bearing and operation
» Field devices
» Measurement and control technology

