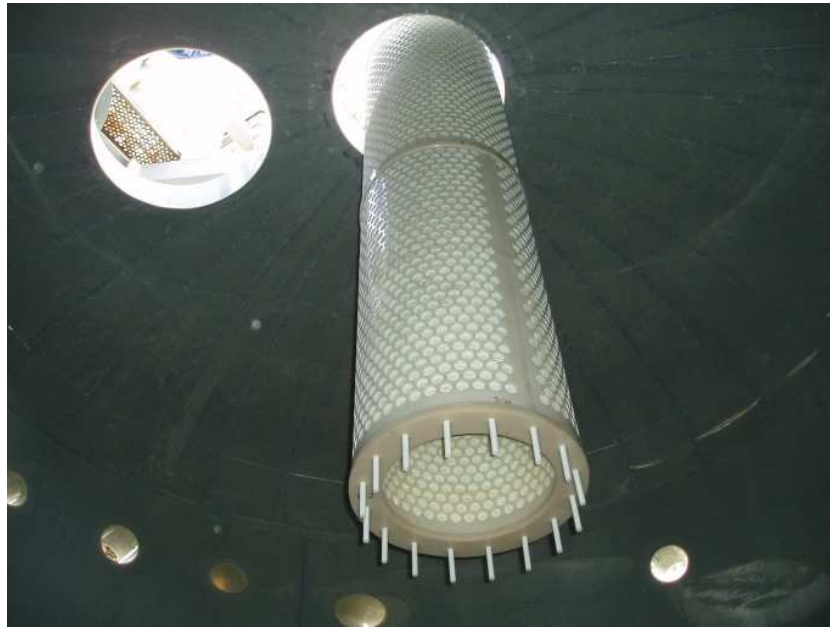


BEGG COUSLAND ENVIROTEC LTD.



High Efficiency Brownian Diffusion Mist Eliminators

- For WSA Plant Emission Abatement
- For High Liquid Load Wet Catalysis Absorber Duty

The use of High Efficiency, Brownian Diffusion type Mist Eliminators in different Sulphuric Acid condensation processes has been done for more than 30 years, but now there are more installations to treat H₂S gas emissions and low strength SO₂ emissions from refineries and metals processing plants.

Wet Catalysis (where a Sulphuric Acid plant has no Drying Tower), can lead to a liquid load of up to 80,000mg/Nm³ entering the mist eliminator set. Emissions of below 30mg/Nm³ can still be achieved, to meet atmospheric standard, but extreme care is needed on the fibre bed design, and on the materials of construction. Begg Cousland Envirotec has the experience and know-how to design such installations to minimise pressure loss as well as to minimise emissions of mist.



WSA & Wet Catalysis Mist Eliminators
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The WSA technology of Haldor Topsoe uses a Condensation Tower stage, with special glass tubes inside, each always with a small PTFE mesh filter in the top. Begg Cousland Envirotec can supply replacements for those filters.

In some later designs, there can be a large knitted mesh demister fitted in the top of, or after, the Condensation Tower, for better droplet capture. Again such demisters are a standard production of Begg Cousland Envirotec.

In more recent WSA plant designs, and in some recent retro-fit designs, where lower emission standards including almost total removal of sub-micron mist are to be achieved, a final, separate vessel is installed before the stack, with very high efficiency TGW16 candle filters from Begg Cousland Envirotec, using structure of GRP / Derakane resin or ECTFE or PDVF or Polypropylene.



The most recent development was the Haldor Topsoe 'Solve' technology, developed with the assistance of Begg Cousland, using the TGW16 candle filters also as an SO₂ scrubbing stage, with H₂O₂ injection



In all Begg Cousland supplies to WSA plants, the performance guarantees have been met. References available on request.

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