

SAIMM 2025
BEGG COUSLAND
COMPANY PROFILE



Craig Cassells
Business Development Manager

Company Profile

- ▶ Begg Cousland established 1854.
- ▶ Head Office and Technical Support are located in Glasgow, Scotland, moving to a new stand-alone office facility in November 2022
- ▶ First knitted wire demisters made in 1950.
- ▶ Specialisation in Mist Elimination from 1965 with Fibre Bed technology added to our existing range
- ▶ Developed our Own Gas Cleaning Know-How from 1980 as package filtration systems & scrubbers
- ▶ New fume scrubber packing technology integrated into designs for Phosphate & Nitrogen Fertilizers
- ▶ Daughter company, Begg Cousland srl (Italy), is our main production facility for the last 14 years.
- ▶ Agent for Southern Africa is Colin Marais, GNetB for the DRC.

Company Profile



**Begg Cousland Envirotec HQ & Sales Office
Glasgow , U.K.**



Company Profile



Begg Cousland srl Factory, Santorso, Italy

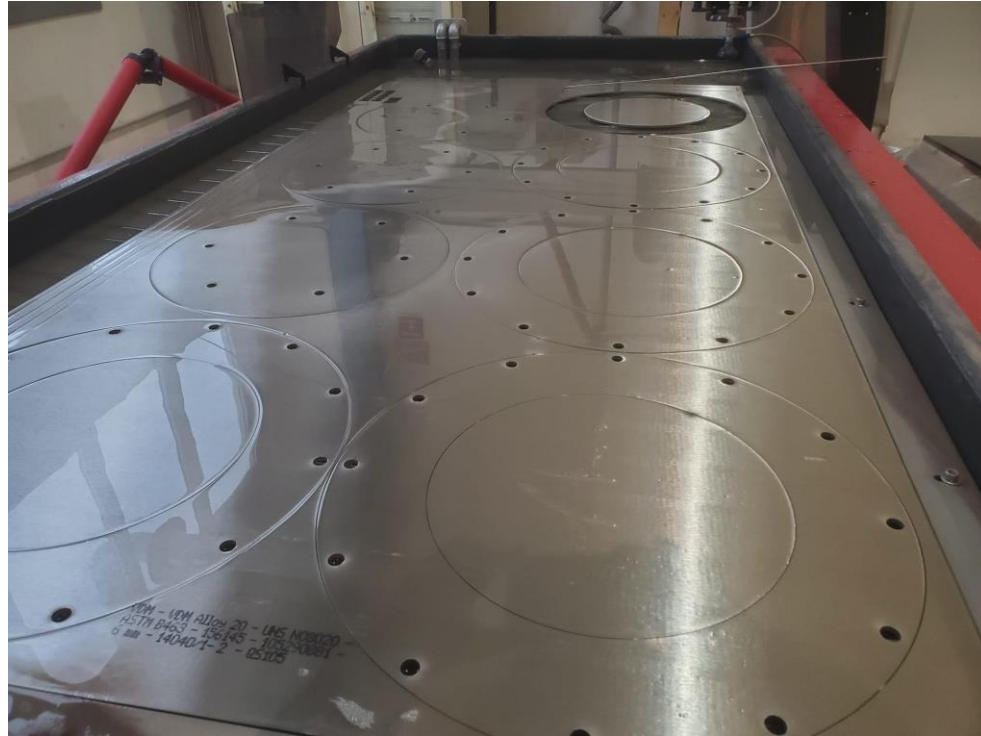


- ▶ **The Begg Cousland srl factory manufactures all our filter products under ISO 9001 accreditation**
- ▶ **Business Central ERP and MES software**



Company Profile

- ▶ In-house water jet cutting machines,
- ▶ Sand blasting cabinet
- ▶ Own in-house welders



Company Profile – Meet the team!



Graeme Cousland
Managing Director



Martyn Dean
Sales Director

Company Profile – Meet the team!



Mhairi Murphy
Sales Manager



Craig Cassells
Business Development
Manager

Company Profile – Meet the team!



Ross Crawford
Technical Manager



Fiona Lavery
Key Accounts
Manager

Company Profile – Meet the team!

Colin Marais
Representative for
Southern Africa

Natacha Mukasa,
GNetB
Representative for
DRC



Engineering Contractors Supplied

Metso:Outotec

CHEMETICS®

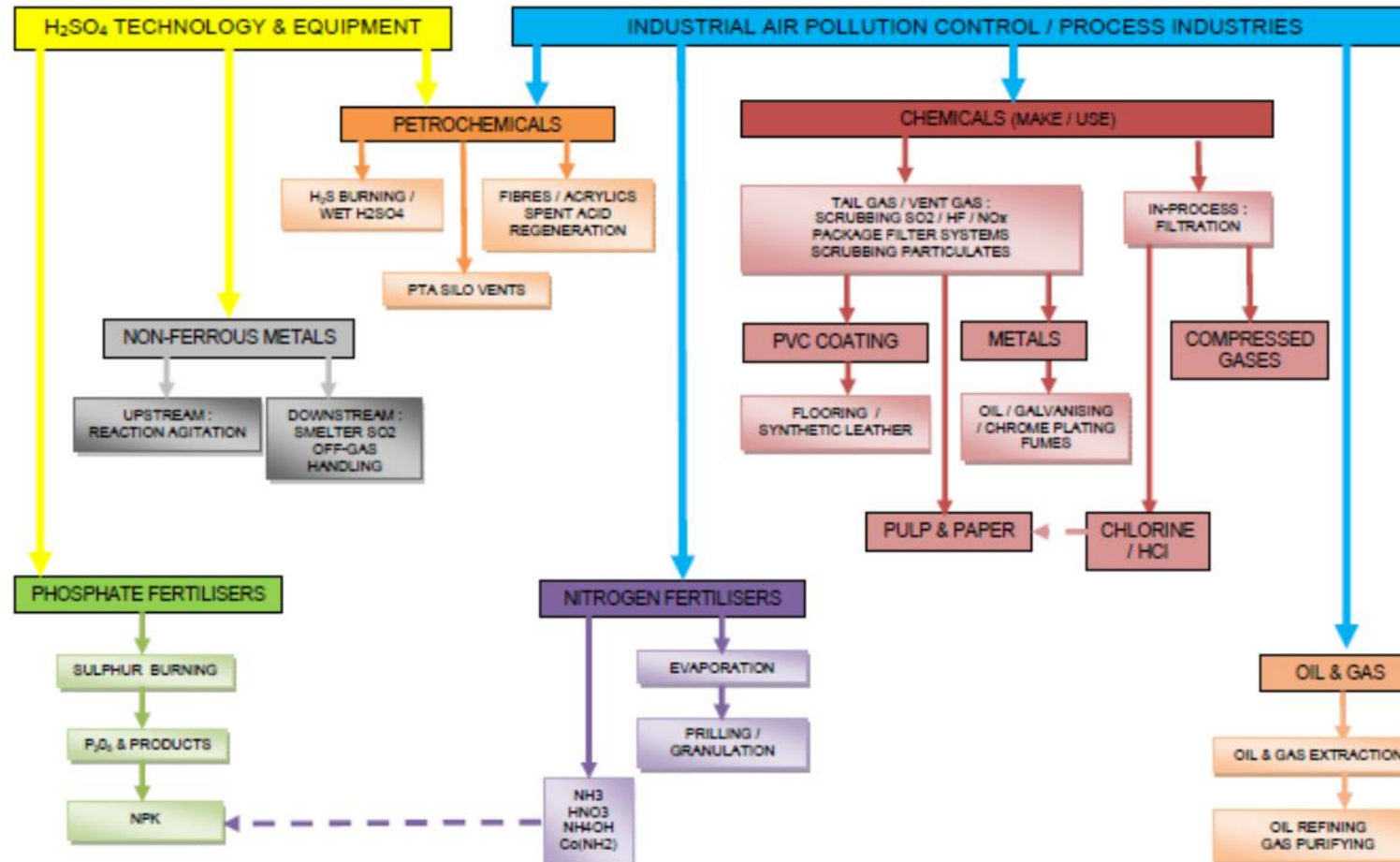
TOPSOE



Southern African Customers



Industrial Areas Covered



Demisters and Co-Knit Mesh Pads

Typical Materials include:

- ▶ Stainless Steel 316L
- ▶ Alloy 20
- ▶ Edmeston SX® or Saramet ®
- ▶ Hostaflon (ETFE)
- ▶ Teflon PFA
- +
- ▶ Glass Fibre
- ▶ Teflon Fibre



Vertical Panel Filters



Vertical Panel Filters

Vertical Demister Panels

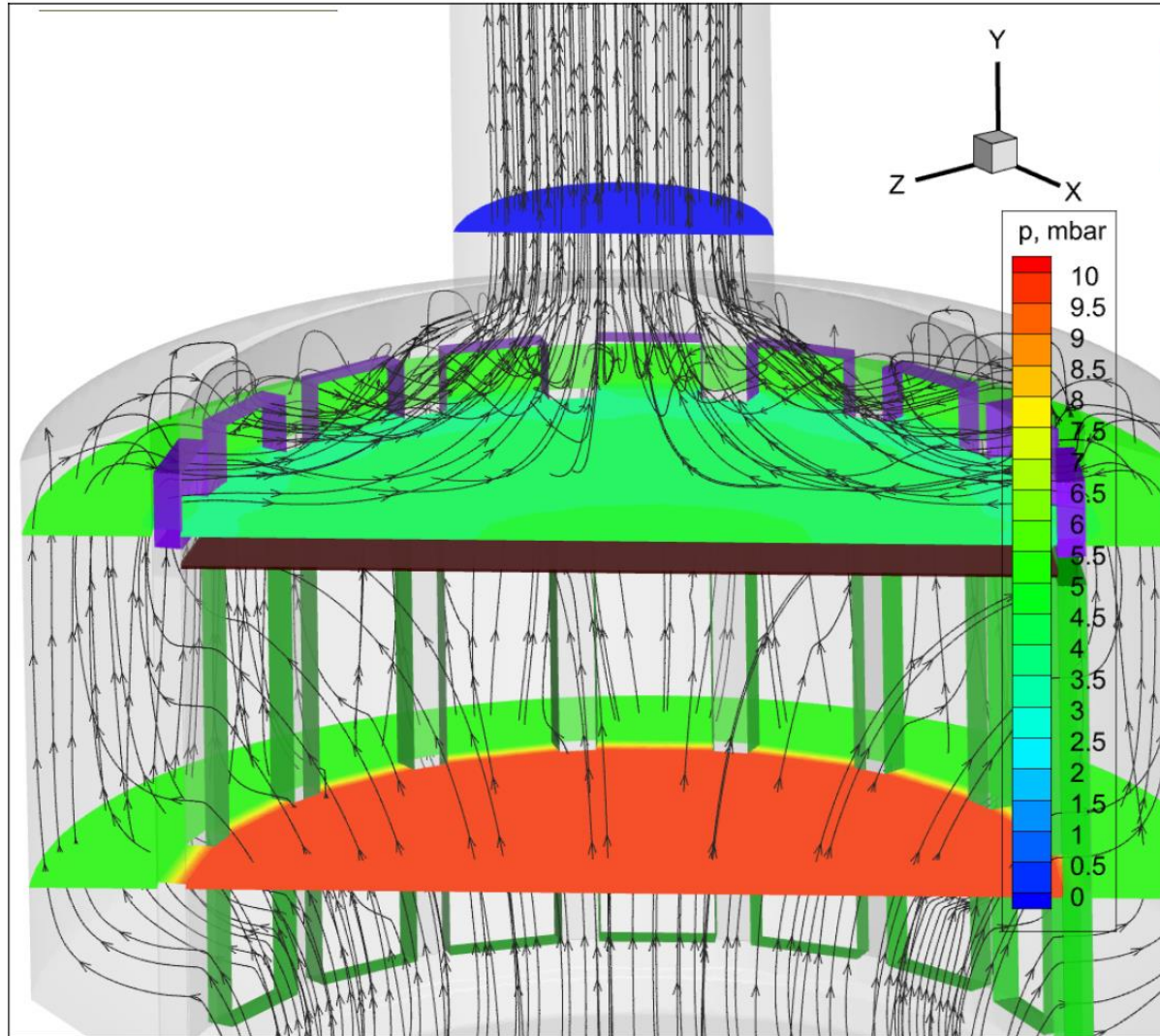
Arranged in a polygon arrangement, installed and removed from roof (top) mounted access doors

Advantages:

- Ease of removal / replacement means that they can be changed in 2 hours during a hot shut-down
- No requirement for vessel entry – safety improvement for operators



Vertical Panel Filters



Candle Filter Mist Eliminators

Since 1960s Begg Cousland have made fibre bed mist eliminators (Candle Filters), to collect liquid mist below 5 microns, even sub-micron.

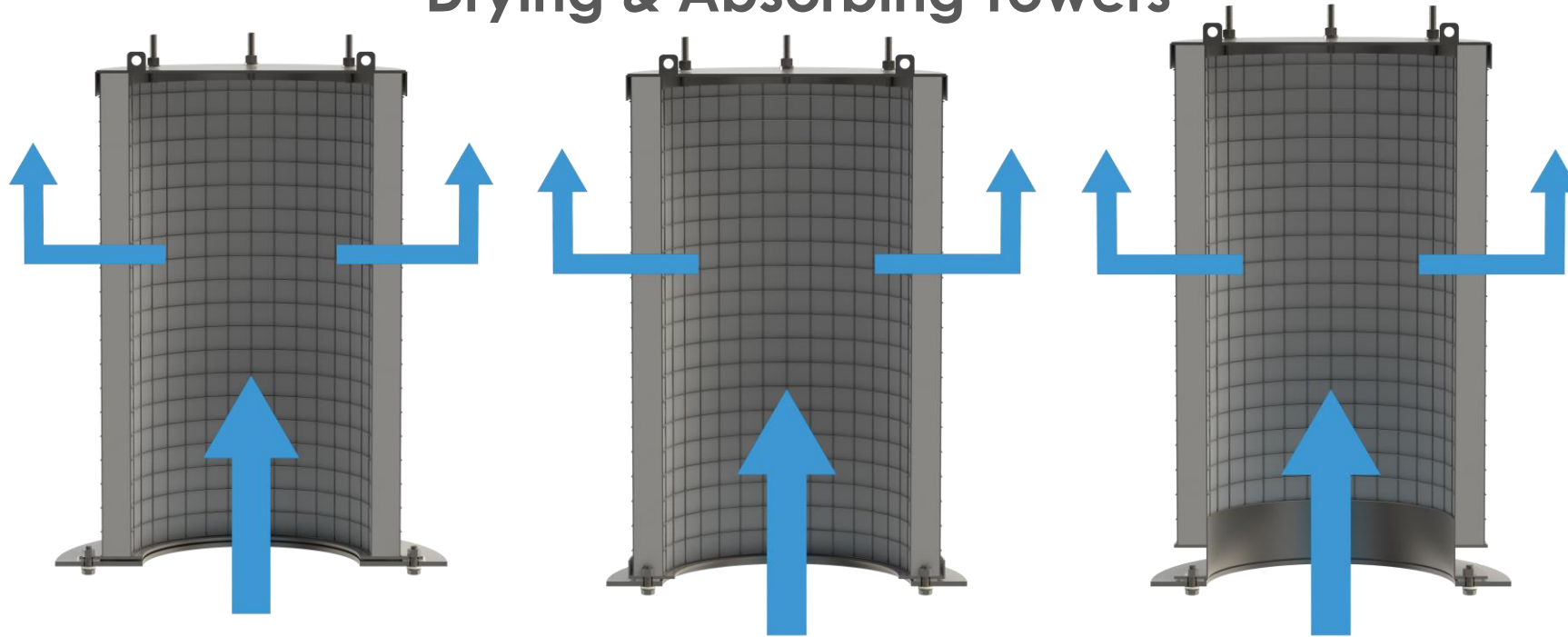
The fibre beds are made of a variety of fibre diameters and lengths, selected in each case to give the desired / optimum balance of energy requirement and efficiency. Generally, more efficiency means more energy or more cost.

Mist Eliminators in a Standing or Hanging arrangement, are mostly used in Absorber Towers. Standing type are also used in Drying Tower service.

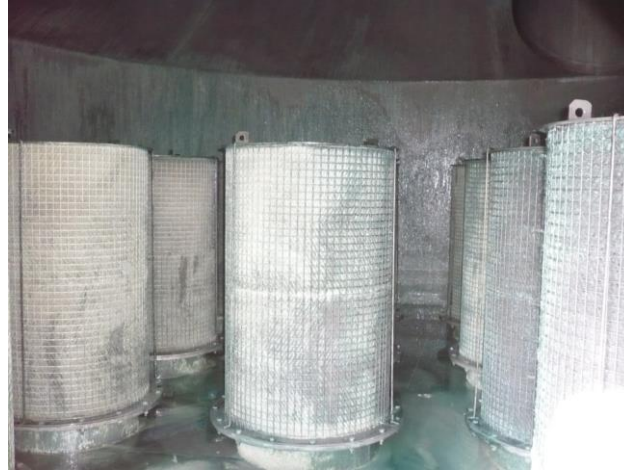


Candle Filter Mist Eliminators

Short or Long Standing-Type Arrangements suitable for Drying & Absorbing Towers

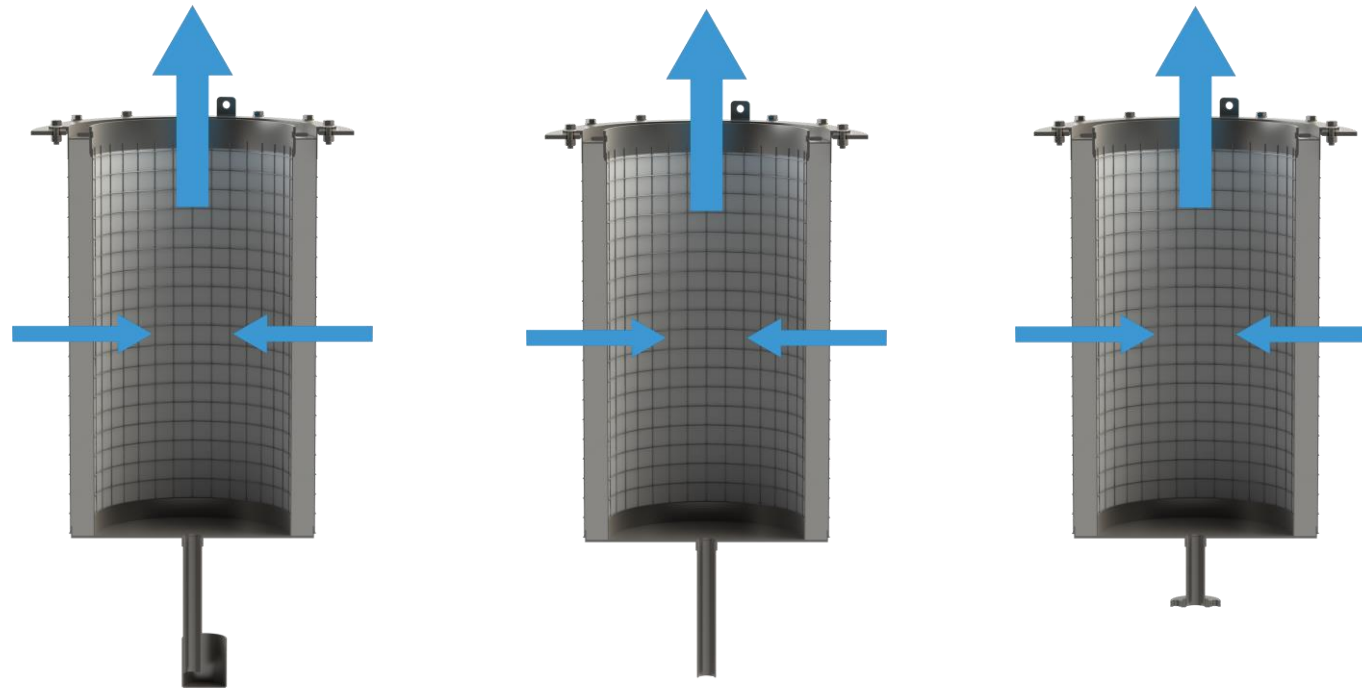


Candle Filter Mist Eliminators



Candle Filter Mist Eliminators

Long hanging type arrangements suitable for absorbing towers



Candle Filter Mist Eliminators



Standing Arrangement

**Brownian Diffusion
Types Suitable for
all Absorbing
Towers**



Hanging Arrangement

Candle Filter Mist Eliminators

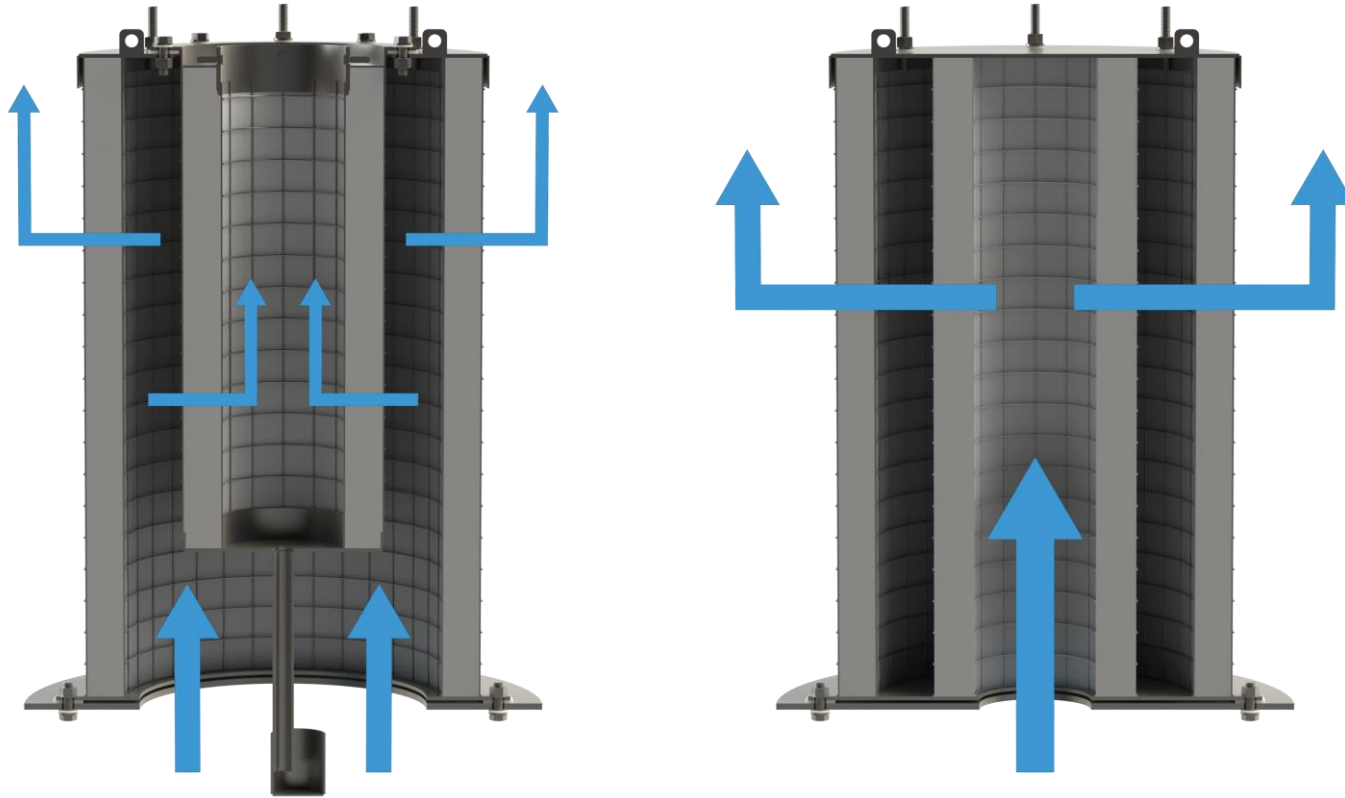
Standing or Hanging Type Fibre Beds for IAT or FAT
Brownian Diffusion Types - Velocity 0.05 – 0.25 m/s

- ▶ B14 Glass Fibre
- ▶ B14W Glass Fibre (Rope Wound)
- ▶ C14 Carbon Fibre (Mat Wound)
 - ▶ 100 % Collection > 3 µm
 - ▶ 99 % Collection < 3 µm
- ▶ TGW15/TGW16 Glass Fibre
- ▶ B14W+ Glass Fibre (Rope Wound)
 - ▶ 100 % Collection > 1 µm
 - ▶ 98 – 99 % Collection < 1 µm



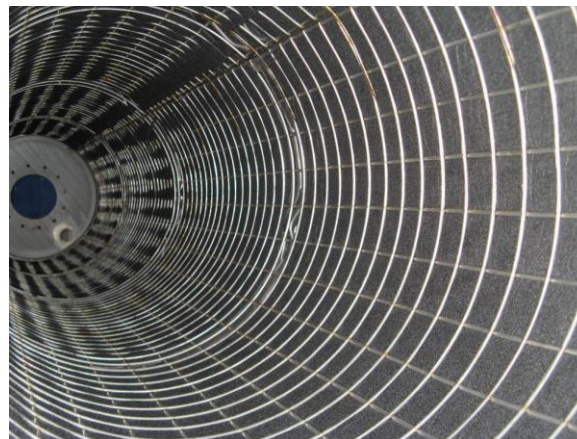
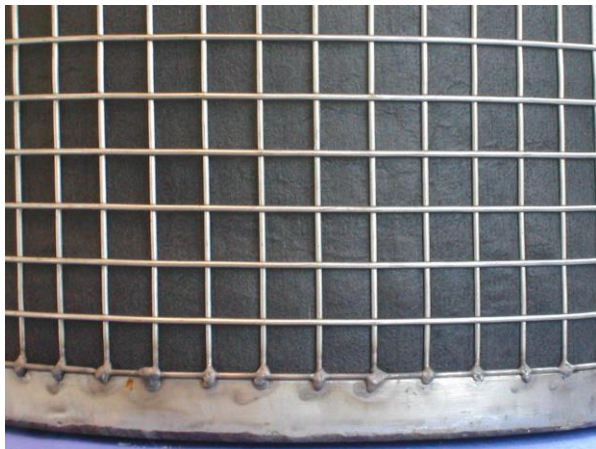
Specialist Filter Designs

Xtra-Flow Candle Filters for increased surface area/capacity or pressure loss reduction



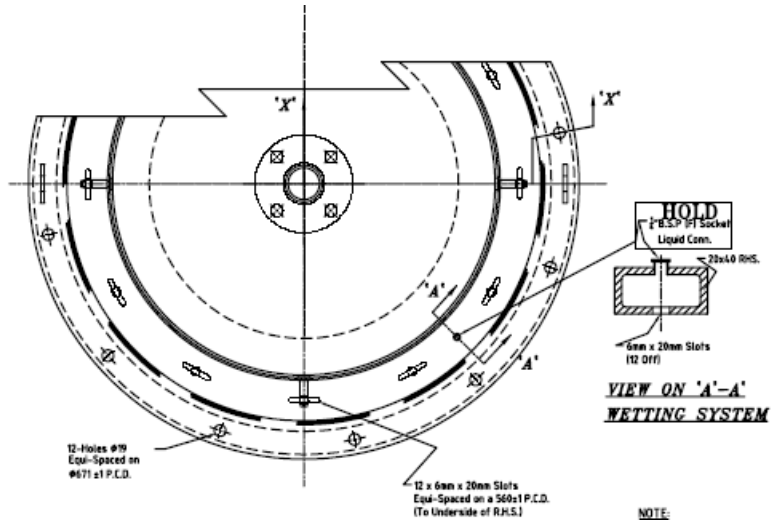
Specialist Filter Designs

Carbon Fibre Candle Filters for HF Duty



Specialist Filter Designs

Wetting Ring Systems for SO₃ Slip



Specialist Filter Designs

Candle Filter Systems for NOx



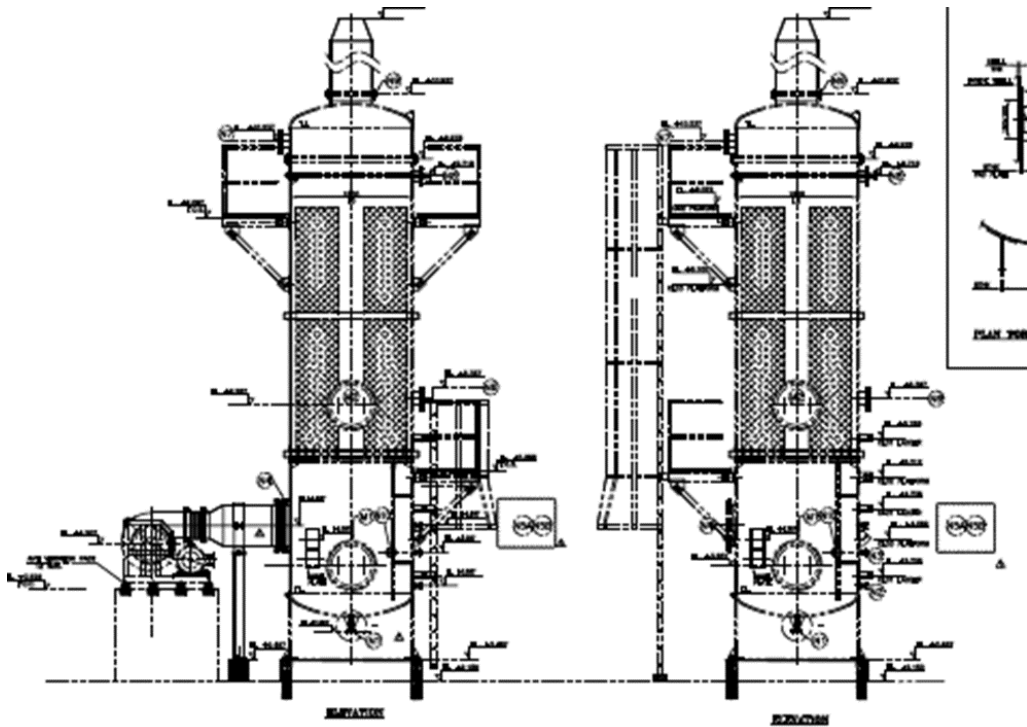
Specialist Filter Designs

Candle Filter Systems for NOx



Specialist Filter Designs

Liberator Cell Hood and Circulation Tank – Vent Fume Removal



'Defined, Designed, Delivered'

Begg Cousland Mist Eliminators to suit your plant, for optimum performance, custom made by us. **And help when you need it.**

Please go to www.beggcousland.com for lots more to benefit you.

Products.



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Knowledge.



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Applications.



LEARN MORE

Sulphuric Acid



LEARN MORE

Sulphuric Acid

Filter > Drying Tower

SULPHURIC ACID / DRYING TOWER
PROCESS INFORMATION
Air or SO₂ is dried with H₂SO₄ before being fed to the sulphur burner or converter. The Drying Tower can be under [-] [learn more >](#)

Sulphuric Acid

Filter > IAT & AT

SULPHURIC ACID / INTERMEDIATE ABSORPTION TOWER
PROCESS INFORMATION
Case A Conventional H₂SO₄ Process
In a sulphur burning or metallurgical double absorption H₂SO₄ plant where no Oleum is produced upstream, SO₃ [-] [learn more >](#)

Sulphuric Acid

Filter > FAT

SULPHURIC ACID / FINAL ABSORPTION TOWER
PROCESS INFORMATION
In a sulphur burning or metallurgical or spent H₂SO₄ regeneration plant where no Oleum is produced upstream, SO₃ gas exits the fourth [-] [learn more >](#)

Sulphuric Acid

Filter > Tail Gas Scrubber

SULPHURIC ACID PLANT SO₂ TAIL GAS / NH₃ / SO₂ TAIL GAS SCRUBBING TOWER
PROCESS INFORMATION

Knowledge

Sulphuric Acid



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