



Begg Cousland

World Class Solutions

Industrial Air Pollution Control Equipment

**Gas Cleaning Systems for Industrial
Processes**

**Selected Equipment for (Petro)Chemical and
Metallurgical Industries**

Begg Cousland's Filtration Technology

Begg, Cousland have over 50 years of experience in the design, manufacturing and installation of filters for removal of liquid particles from gas flows.

The techniques required to ensure we meet the guaranteed efficiency and pressure drop, as well as achieving the maximum filter life, enables us to design and offer you the optimum filter solution for your needs.

Detailed knowledge in-house means we understand well the industrial processes and their differing requirements.

Let us give you the benefit of our experience, guarantees, and maximised filter life.

' BECOVANE' Chevron Droplet Separators.



Duty : Removal of mechanically generated droplets using various design options

Typical Applications :

- Gas Scrubbers
- Reactor Tanks

Typical Industries :

- P Fertilisers
- Oil Refinery
- (Petro)chemicals

Typical Materials :

- Stainless Steel
- Polypropylene
- PVDF



'BECOIL' Demisters,



Duty : Removal of small droplets, using various design options

Typical Applications :

- Gas Scrubbers
- Reactor Vessels
- KO Drums
- Drying Towers

Typical Industries :

- Sulphuric Acid
- N Fertilisers
- Oil Refinery
- (Petro)chemicals
- Electronics
- Pharmaceuticals
- Water Desalination

Typical Materials :

- Stainless Steel
- Polypropylene
- PTFE / ETFE
- Monel
- Alloy 20



'BECONE' Coalescers



Duty : Removal of mist particles, in co-knitted fibre + demister mesh

Typical Applications :

- Drying Towers
- Prefilters

Typical Industries :

- Sulphuric Acid
- (Petro)chemicals

Typical Materials :

- Stainless Steel + Glass
- Polypropylene
- PTFE / ETFE



'BECOFIL' Candle Filter Mist Eliminators



Duty : Removal of chemically or thermally generated sub-micron mists & fumes, using various design options.

High Velocity to minimise space or Brownian Diffusion for invisible chimney exit.

Single or Double Bed

Typical Applications :

- Drying Towers
- Absorbing Towers
- Prilling Towers
- Oil / Oven Fume
- Tank Vents

Typical Industries :

- Sulphuric Acid
- N Fertilisers
- Phosphoric Acid
- Chlorine & HCl
- Organic Processing
- (Petro)chemicals
- Compressed Gas

Typical Materials :

Fibres –

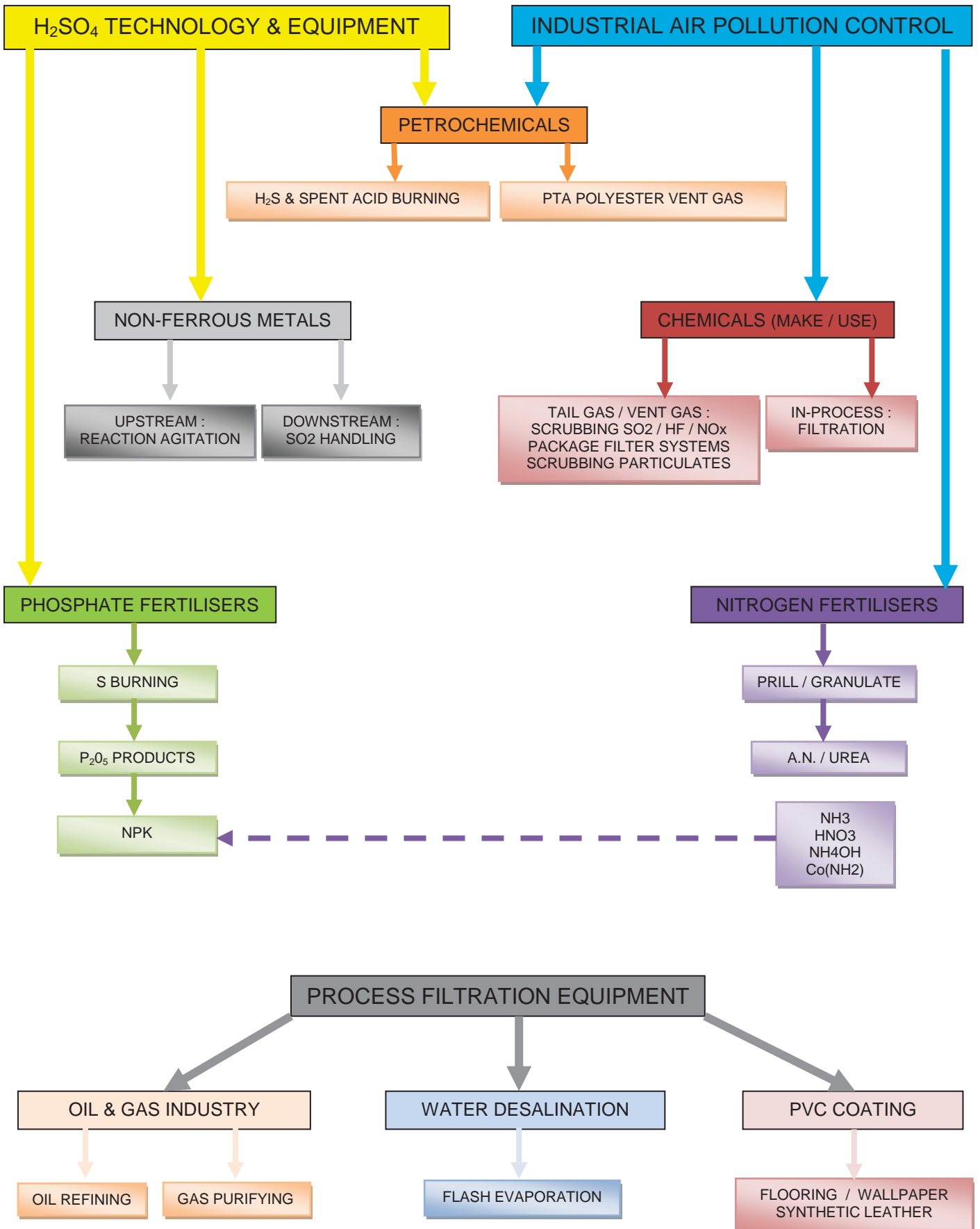
- Glass
- Polyester
- Polypropylene
- Carbon
- PTFE

Structures –

- Stainless Steel
- FRP/Derakane
- Polypropylene
- Carbon Steel



BEGG COUSLAND'S MAIN ACTIVITY



Begg Cousland's Gas Cleaning Technology

Begg Cousland have developed leading edge fume and gas cleaning technologies to add to the range of conventional scrubbers offered. Also supplied are package systems.

Gas scrubbing



Traditional and novel technologies include :

- Rotary brush scrubbing
- High Energy Venturis
- Eductor Venturis
- Wet and dry cyclones
- Counter-current packed bed columns
- Combinations of the above

Combine, where needed –

- Gas absorption
- Solids removal
- Gas suction



Filtration Package Systems



Design, supply and installation of complete filtration systems, comprising filter vessels fan, heat exchanger, chimney, all associated control system instrumentation.



Gas / Vent Scrubber designs, with mist or droplet separator system in series as an option, also for tail gas cleaning duty.

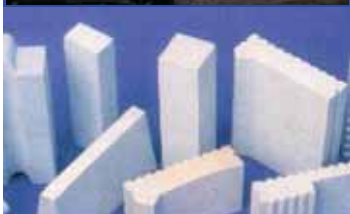
Metal or Brick Lined Tower / Filter Vessel Packages



Design, supply and installation of complete filter vessels and process towers.

Brick lined towers are offered including supply of ceramic acid resistant bricks, packings, dome packing supports and complete installation services

Alloy metal construction is also an offered option or where metals cannot be used, we will use GRP or suitable synthetic materials.



Tower Internals



A competitively priced range of ceramic, metal and plastic random packings for towers and columns + pipe and trough type liquid distributors

Begg Cousland's Liquid Handling Activity

Agitators and Thickeners



Reactor tank and mixing agitator range available in all metals.

Industrial sectors :

- Phosphates / Fertilisers
- Metals processing
- Chemicals mixing



Also tank thickeners and rakes

Liquid-Liquid Coalescer Separators



Systems design and supply for waste effluent treatment or for oil / water separation to improve product quality.

Solids removal option.

For further information, please contact us at

Begg Cousland & Co. Ltd.

Studio 3 Doges, 62 Templeton Street,

Glasgow G40 1DA

United Kingdom



Tel + 44 141 556 5288

Fax + 44 141 554 7447

E-mail : sales@beggcousland.com

Website : www.beggcousland.com