

Carbon Filters

Odour control in the Water Industry

Technology
for a
sustainable future

We offer a comprehensive range of activated carbon, impregnated carbon, oxidising alumina media, and hybrid, multi-media filters. For the Middle East market we also offer in situ water and chemically regenerable carbon.

An ERG dry media filter may be used as a stand-alone filter for polishing a chemical scrubber discharge or as part of a DryCat system. All our dry media filters require no operator intervention and provide guaranteed odour control performance.

Key benefits of ERG's range of carbon filters

- High removal efficiency of H₂S and other odours
- Outlet H₂S concentrations <5-10ppb
- VOC polish to <200 $\mu\text{g}/\text{m}^3$ achieved
- Filters to treat 200 to 200,000m³/hr
- Low pressure drop <500Pa
- Bed life designed to suit requirements
- Low capital cost
- Supplied in PVC/GRP or coated steel

Carbon media available through our framework media suppliers

Alkali impregnated carbon

Pelletised for low pressure drop, up to 25%w/w take-up of H₂S, good mercaptans removal

Acid impregnated carbon

Pelletised or granular, up to 8%w/w take-up of ammonia

Activated carbon

Pelletised or granular, for VOC removal

Water regenerable carbon

Pelletised, up to 20% w/w take-up of H₂S, regenerable using water for up to 8 cycles. Operational cost savings

Special applications

Alternative grades available for unusual duties

Other impregnated media

Oxidising media for VOC odour polishing



www.ergapc.co.uk



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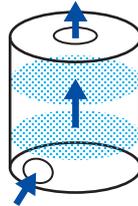
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ERG's Carbon filter range

- Deep bed filters
- Annular filters
- Purpose made filters
- Containerised filters
- Dual deep bed filters
- Air valve vent filters

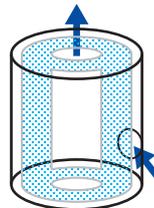
Deep bed filters

- ideal for low gas flows 200-2,000m³/hr
- can be passive or forced ventilation
- widely used for local tank ventilation
- single or dual media
- suitable for water regenerable carbon



Annular filters

- ideal for medium gas flows 2,000-40,000m³/hr
- suitable for use as a polishing filter
- very compact design with small pressure drop
- single or dual media



Dual deep bed

- ideal for medium gas flows 2,000-40,000m³/hr
- suitable for use as a polishing filter or for bulk removal
- very compact design with small pressure drop
- single or dual media
- suitable for water regenerable carbon



Units installed and operating successfully include:

South West Water

Dawlish STW, Sidmouth STW, Cornborough STW and Bideford STW

Southern Water

Herne Bay, Sandown STW (7 units), Worthing STW Bognor scheme (3 units), Bognor PS and Lewes PS, Peel Common, Bexhill & Hastings, Littlehampton STW

Northumbrian Water

Cramlington (3 units), Lynemouth

Scottish Water

Dingwall STW, Oban STW, Inverurie STW, Kirkcaldy STW (3 units), Rothesay STW, Campbeltown STW, Helensburgh STW, Cruden Bay PS, Dalmeir pipeline (multiple units) and Levenmouth STW

Northern Ireland Water

Ballymena STW, Craigtown More, Carrickfergus, Ballyclare, Whitehouse (2 units)

Dublin City Council

Dublin PS

United Utilities

Shell Green STW, Arnside STW, Great Watford STW, Holmes Chapel STW and Keswick STW

Severn Trent Water

Westwood Hall, Pockington

Yorkshire Water

Whitby STW, Hornsea & Mappleton STW (3 units)

Shanks Waste Management

Marston Vale ETP



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