

Biofilters

The medium level odour control solution

Technology
for a
Sustainable Future

Used as a stand-alone package, or in combination as part of a DryCat system, ERG's biofilter provides trouble-free odour control for small to medium sized sewage treatment plants.

Filled with either calcified woodchip or peat and heather, all from renewable sources, ERG's biofilters have been refined and optimised over the years to offer outstanding value for money and simple operation. They require no storage of chemicals on site and need only a water or filtered final effluent supply and a drain connection.

Specially selected bacteria colonize the substrate media within the biofilter housing and there digest the odour-causing compounds, which typically include H₂S, mercaptans, organic sulphides and ammonia. The optimised environment for bacterial activity is maintained by regular, controlled irrigation. Designed and built to BS4994 and fully compliant with WIMES 8.05, ERG's biofilter systems offer assured performance and competitive costing.

All our systems are custom-designed for the odour control duty required, and include a biofilter housing and irrigation system, biomedica, air extraction fan and ductwork, and electrical control panel.



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Key benefits

- Removal efficiencies of >98% for H₂S and >95% for other odours.
- Capable of treating gas flows from 200m³/hr up to 20,000m³/hr.
- Compact, neat rectangular modular design manufactured from GRP.
- Easily controllable spray system for optimal bio-media humidification.
- Robust fully enclosed housing capable of withstanding up to 4,000Pa negative pressure if necessary. Easy to remove roof for maintenance or media change.
- Up-gradeable performance by addition of CIF pretreatment or carbon filter polishing.
- Inexpensive bio-media with proven longevity.
- Filter housing can be supplied in any colour.



Units installed and operating successfully include:

Scottish Water

Dingwall STW, Fillyside STW, Oban STW,
Rothsay STW, Campbeltown STW,
Helensburgh STW, Inverurie STW

DRD Water Services - Northern Ireland

Ballyclare STW, Craigtown Moor STW,
Whitehouses STW

Southern Water

Tunbridge Wells STW
Peel Common STW

GlaxoSmithKline

Ulverston

Yorkshire Water

Selby STW, Whitby STW,
Hornsea & Mappleton STW

United Utilities

High Bentham STW

Anglian Water

Boston STW, Sutton Bridge STW

Welsh Water

Felinfach STW

States of Jersey

Bellozanne STW
Le Hocq PS, Le Bourg PS, St.Ouen PS

Severn Trent

Packington STW

Northumbrian Water Ltd

Cramlington STW



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