

**Clients we have successfully completed work for include:**

**United Utilities  
Severn Trent Water  
Glaxo SmithKline  
Anhauser Busch  
Unipart  
Welsh Water  
Department of the Environment - Water service NI  
Northumbrian Water  
Southern Water  
Anglian Water  
Scottish Water  
Sydney Water  
Brisbane Water Environmental Alliance (BWEA)  
Thames Water**



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# ODOUR ABATEMENT SYSTEMS



**AN EXTENSIVE RANGE OF ODOUR  
ABATEMENT SOLUTIONS**



# ODOUR ABATEMENT RANGE



## TERMINODOUR™

The Terminodour™ system utilises ionisation technology to oxidise odours at source. The system is extremely effective against all organic odours and is a particularly useful abatement tool for high volume buildings with relatively low odour levels. The system is also effective in oxidising higher odour concentrations and low volume levels such as would be found in a sewage pumping station. Because The Terminodour™ system abates odours in situ it provides improved air quality and working conditions for operators and reduces sulphide inspired corrosion of sensitive plant such as control panels. The system can be retrofitted into existing buildings as well as new. Capital and running costs are comparatively low.

### Benefits:

- Low capital and running costs
- No media to replace or dispose
- Minimal maintenance
- Safer working environment for plant operation personnel
- Reduced corrosion



These provide low capital cost solutions for most odours using a combination of adsorption or a chemical reaction with the impregnated media depending on the emissions being treated. Generally the media is activated carbon and these systems are designed and built by our partners PMG who have been supplying Carbon filters for 12 years. Both passive and fan assisted systems are available. On site or offsite regeneration is a further option. Our carbon filters come complete with housings and a frame for rapid site installation and easy media replacement.

## DRY SCRUBBING SYSTEMS

## BIOSORBENS™ BIOLOGICAL FILTERS

Biofilters are normally ideal solutions for high volume constant load odour problems, however our Biofilters are able to handle variable odour loads due to the engineered design. The Biorem™ Biosorbens™ biologically engineered filter media comes with a 10 year guaranteed lifespan. Biosorbens mineral media does not decay or slump due to its compressive strength. The media itself is impregnated using biotechnology to counter specific odour problems. Our Biofilters are designed to remove 98% of odours with a 30 second residence time. Removal rates can be increased by extending the residence time. The Biorem Biofilter media is Canadian and is the leading Biofilter in the North American market. The system is available with an Internet based monitoring system if required.



## WET CHEMICAL SCRUBBERS

PMG Wet Chemical scrubbing systems are ideal for handling high odour loads. Chemical scrubbers usually consist of one or more columns packed with a plastic media. The foul air is extracted from source and passed through the columns where it is neutralised by chemicals sprayed from the top of the packed column. The chemical, or mixture of chemicals, is selected according to the type and nature of odour. Chemical scrubbers generally have smaller footprints than Biofilters making them ideal for sites with limited space. PMG Chemical scrubbing systems can be utilised to remove high odour loads and can be supplied with a fully programmed and integrated instrument and control system

## CATALYTIC IRON FILTERS (CIF's)

CIF's are generally used as "roughing Filters" to remove very high odour loads prior to more sophisticated technologies thus keeping the overall project costs as low as possible. CIF's consist of a housing into which old rusty iron is random packed. When odorous air is passed through the CIF it is partially oxidised thereby removing the odour peaks. The much lower odour load is then passed onto to a second stage odour control system that acts as a polishing filter.

## CSO TECHNIK CAPABILITIES

- Odour Surveys
- Design proposals
- Turnkey projects
- CSCS Trained Staff
- ISO9001
- Achilles Verify registered
- Maintenance
- Spares & Service
- Fault Finding
- Technical Surveys & Reports
- Odour Testing

## ALSO FROM CSO

- CSO Screens
- Flushing Systems
- Flow Regulators
- Inlet Screens
- Screenings Handling
- Ventilation Systems
- Sludge Treatment