

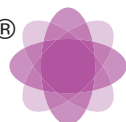


cbio
cleveland biotech
the natural solution

bactaerator[®]

Biologically accelerated pump station rehabilitation. The Bactaerator has been designed by microbiologists to dose not only a bespoke bio-fluid and a biological accelerant directly into the sump, but also to vigorously aerate the contents of the chamber. This effectively turns your anaerobic sump chamber into an aerobic bio-reactor.

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Installation/application requirements

Installed by:	CBIO engineers
Power requirements:	240v mains
Mains water requirements:	None
Injection point:	Dose lines run via access channel from the pump station control kiosk

Product availability

Dosing unit	
Bactaerator cabinet:	1000 x 600 x 400mm
Bio-fluid	
20lt drum:	2 x 440 x 300 x 300mm

Nutrient description

Appearance:	Dark liquid
Contents:	Blend of nutrients and trace elements, including N, P & K

Bio-product description

Biological activity:	Min 1 x 10 ⁷ cfu/ml
Appearance:	Blue viscous liquid
Hazard group :	Hazard group 1

Health & Safety statement

Material Safety Data Sheets are available on request

ERADICATE SUMP PROBLEMS NATURALLY

Sumps, wet wells and pumping stations provide continual problems to all those responsible with managing and maintaining them, from pubs and supermarkets to drainage contractors and water companies.

The problem most commonly encountered is the build-up of fat, oil and grease, which can lead to damage to the pumps, prevent the float switches from working, and result in floods and expensive repair work to burnt out pumps. In extremes the build-up of fat in a chamber can result in anaerobic conditions developing which in turn can lead to the formation of 'sulphonic acids' which will corrode any equipment or metal work they come into contact with. Other problems include smells, and septicity in the well and the rising main.

These problems are not only expensive to rectify, but can result in significant fines being levied against the offending parties as a result of damaging floods or offensive odours.

The Bactaerator has been developed to prevent all these problems from occurring. As with all of CBIO's other application systems (GreaseBeta, FridgeFree, Bacculator, Clearinate) the Bactaerator is based on sound biological principals and has been designed to optimise the remedial effects of bacteria in a specific situation.

The Bactaerator has been designed by microbiologists to dose not only a bespoke bio-fluid and a biological accelerant directly into the sump, but also to vigorously aerate the contents of the chamber. This effectively turns your anaerobic sump chamber into an aerobic bio-reactor. The presence in the chamber of bacteria, specific nutrient compounds and air provides the ideal conditions for the bacteria to grow and digest the organic matter building up in the chamber.

The effect of the aeration has the added benefit of 'blowing-off' any volatile odour compounds, hence removing issues the sump may be having with smells. The aeration also ensures that any effluent pumped from the chamber is highly oxygenated and will therefore reduce issues of septicity. This system could be an alternative to expensive oxygen release compounds.

The system itself has been designed to run 24/7 for up to 3 months at a time, when it will require a pre-scheduled service visit from one of CBIO's in-house service engineers.

The Bactaerator has been on trial throughout the British Isles over recent months with excellent results. It has demonstrated that cleaning and pump-out requirements are dramatically reduced when in operation, and that problems with fat and odours are all but eliminated.

One comment made during a trial was: "They haven't called for a clean since the system was installed. As the previous cleaning interval was quoted as every 6 weeks and it is now 16 weeks since cleaning, it would appear to be having significant benefits."

