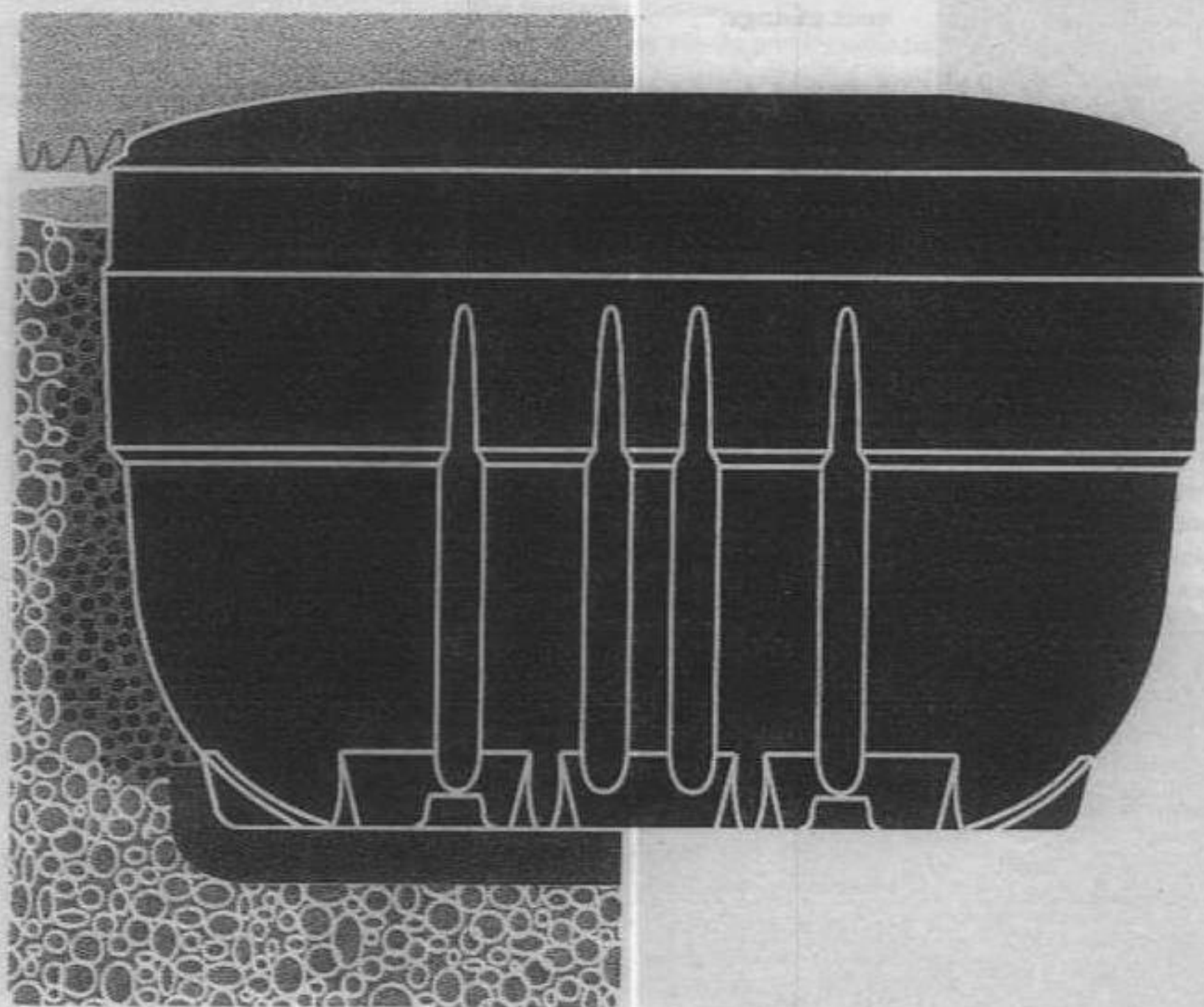


NW 06 / 04 15 / F

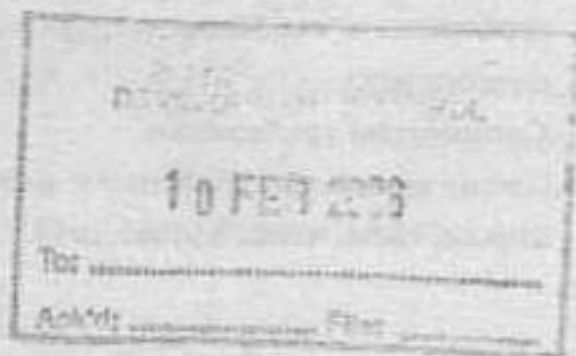
C/SB | (52.7) | XnB |

BioDisc BC-BG

Specialised, high performance packaged
sewage treatment plant for residential and
commercial developments



The solution is **Klargester**



The new generation BioDisc highest performance and cost

With the new improved range of BioDisc packaged waste water treatment plant, Klargester has built on its existing high performance product to deliver a treatment plant with even greater all round benefits. Not only will it meet the ever more stringent standards of controlling authorities, but it has also been value-engineered to give short and long term cost savings.

KLARGESTER ADVANTAGE

Assured performance

The nature of waste water has changed over the last few decades. In recognition of this Klargester's unique patented Managed Flow System has been specifically designed to maintain optimum performance despite shock organic loadings and hydraulic surges. The detrimental effects of modern disinfectants and cleaning materials are effectively buffered by the managed flow system.

KLARGESTER ADVANTAGE

Lowest lifetime costs

A new design with greater use of standardised components throughout the range means that Klargester's new BioDisc provides a cost-effective solution for small scale waste water treatment problems. A low energy belt drive system reduces power costs substantially below those of pump and blower powered alternatives. The high specification and reliability of all moving parts ensures a long trouble-free life for BioDisc.

KLARGESTER ADVANTAGE

Minimal impact, maximum convenience

BioDisc is installed below ground level and fitted with low profile covers, minimising

visual impact but maximising access for de-sludging and essential maintenance. Near silent operation means that you will hardly know your BioDisc is there.



KLARGESTER ADVANTAGE

Easy site handling and quicker installation

The new compact shape and single piece design of Klargester's BioDisc ensures easier handling and quicker installation thus reducing costs.

KLARGESTER ADVANTAGE

Technical support you can rely on

Sizing small biological treatment plants requires specialist knowledge. With over 12,500 installations world-wide our experience and expertise is unique. We offer the benefit of over 30 years experience free to customers, by on-site or telephone discussion with our Applications Engineers. Always consult Klargester whether for commercial applications or residential developments.

Commercial applications

Certain commercial applications, such as pubs, clubs, hotels and industrial

BioDisc BC-BG: for applications with population equivalents between 18* and 70*

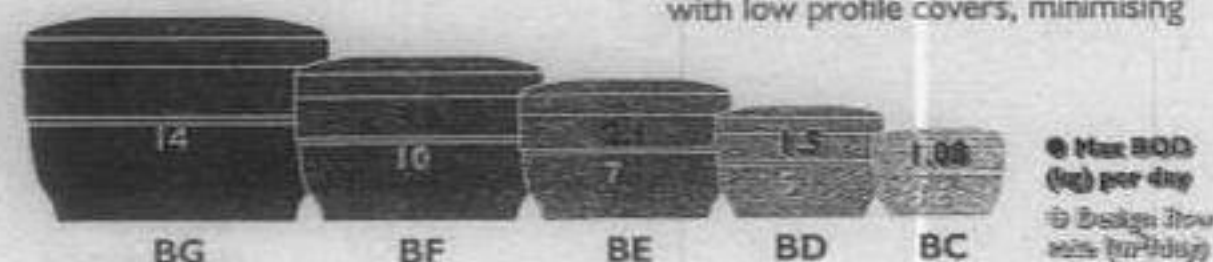
BioDisc BC to BG units are compact, self-contained, single piece treatment plants that utilise natural biological processes to effectively break down the pollutants in domestic and commercial waste water. BioDisc is ideal for small housing developments, hotels, public houses and other small commercial developments. Please refer to our separate technical data sheet for full sizing and specification details.

In addition to the standard model, nitrification units can be specified where regulations require the removal of ammonia.

Klargester's BioDisc design allows this to be achieved with simple modifications rather than the specification of an oversized unit.

*These are nominal figures and are dependent on the specific application.

Unit sizes



- value engineered for t-effectiveness

units, place additional stresses on the waste water treatment process. The sewage strength from the cocktail of detergents, cleaners, and chemicals demands a greater treatment capacity than a purely residential application. In such instances Klargester can advise on the best possible treatment and BioDisc can meet your requirements efficiently and cost-effectively.

KLARGESTER ADVANTAGE

**Long-term peace
of mind -**

The BioDisc Bond

All packaged waste water treatment plant require periodic servicing. A service and preventative maintenance programme prolongs the life of the plant and identifies and rectifies problems before they become serious.

Klargester informs end users as part of the maintenance package, on the mechanical, electrical and process performance of equipment. Customers requiring a long term commitment from Klargester can benefit from the BioDisc Bond which fixes the cost of mechanical/electrical maintenance and parts replacement.

How BioDisc Works

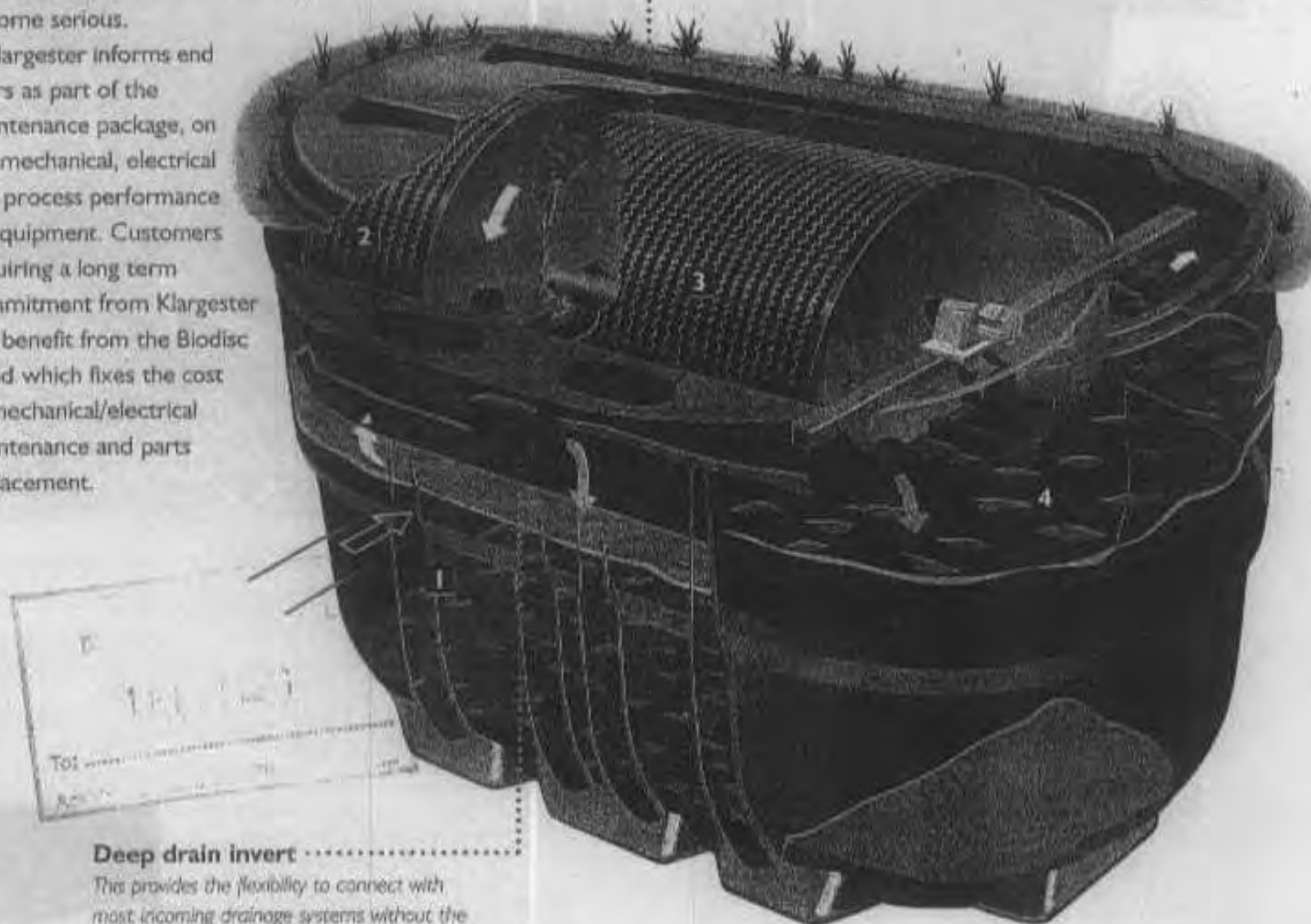
Central to the operation of each BioDisc is the Rotating Biological Contactor (RBC), which supports a biologically active film or biomass. This consists of aerobic micro-organisms, naturally occurring in sewage which break down the pollutants in the waste water flow.

The treatment process

Waste water flows into the primary settlement zone **1** where solids are settled out and retained. Accumulated sludge should be drawn out periodically. Partially clarified liquor flows into the managed flow section of the biozone **2**. Here it is buffered both organically and hydraulically before being fed at a controlled rate to the second stage of the biozone **3** for further biological treatment. Humus solids are settled out in the final settlement tank **4**. The quality of the resultant effluent allows discharge close to or into a water course.

Rotating Biological Contactor (RBC)

The RBC comprises banks of vacuum formed polypropylene media supported by a steel shaft. This is slowly rotated by a low energy consumption electric motor and drive assembly.



Deep drain invert

This provides the flexibility to connect with most incoming drainage systems without the need for greater excavation depth.

The new generation BioDisc highest performance and cost

With the new improved range of BioDisc packaged waste water treatment plant, Klargester has built on its existing high performance product to deliver a treatment plant with even greater all round benefits. Not only will it meet the ever more stringent standards of controlling authorities, but it has also been value-engineered to give short and long term cost savings.

KLARGESTER ADVANTAGE

Assured performance

The nature of waste water has changed over the last few decades. In recognition of this Klargester's unique patented Managed Flow System has been specifically designed to maintain optimum performance despite shock organic loadings and hydraulic surges. The detrimental effects of modern disinfectants and cleaning materials are effectively buffered by the managed flow system.

KLARGESTER ADVANTAGE

Lowest lifetime costs

A new design with greater use of standardised components throughout the range means that Klargester's new BioDisc provides a cost-effective solution for small scale waste water treatment problems. A low energy belt drive system reduces power costs substantially below those of pump and blower powered alternatives. The high specification and reliability of all moving parts ensures a long trouble-free life for BioDisc.

KLARGESTER ADVANTAGE

Minimal impact, maximum convenience

BioDisc is installed below ground level and fitted with low profile covers, minimising

visual impact but maximising access for de-sludging and essential maintenance. Near silent operation means that you will hardly know your BioDisc is there.



KLARGESTER ADVANTAGE

Easy site handling and quicker installation

The new compact shape and single piece design of Klargester's BioDisc ensures easier handling and quicker installation thus reducing costs.

KLARGESTER ADVANTAGE

Technical support you can rely on

Sizing small biological treatment plants requires specialist knowledge. With over 12,500 installations world-wide our experience and expertise is unique. We offer the benefit of over 30 years experience free to customers, by on-site or telephone discussion with our Applications Engineers. Always consult Klargester whether for commercial applications or residential developments.

Commercial applications

Certain commercial applications, such as pubs, clubs, hotels and industrial

BioDisc BC-BG for applications with population equivalents between 18* and 70*

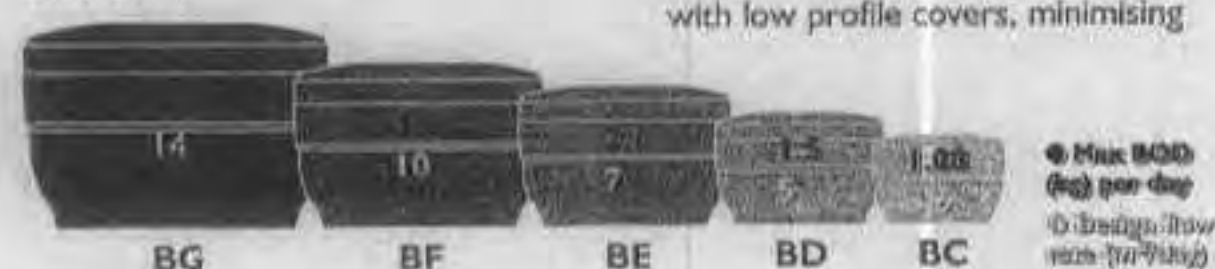
BioDisc BC to BG units are compact, self-contained, single piece treatment plants that utilise natural biological processes to effectively break down the pollutants in domestic and commercial waste water. BioDisc is ideal for small housing developments, hotels, public houses and other small commercial developments. Please refer to our separate technical data sheet for full sizing and specification details.

In addition to the standard model, nitrification units can be specified where regulations require the removal of ammonia.

Klargester's BioDisc design allows this to be achieved with simple modifications rather than the specification of an oversized unit.

*These are nominal figures and are dependent on the specific application.

Unit sizes



Klargester Environmental Limited

Head Office

College Road, Aston Clinton
Aylesbury, Buckinghamshire HP22 5EW
Sales Office: 01296 633033
Tel: 01296 633000
Fax: 01296 633001
Internet: <http://www.kingspanec.com>
email: uksales@klargester.co.uk

Manufacturing &

Distribution units also in:

Scotland - Tel: 01355 248484,
Northern Ireland - Tel: 01232 365664
and South West England -
Tel: 01278 780384.

Associate Companies

Norway, Portugal, Sweden and the USA.

Trading Partners

Canada, Denmark, Eire, Finland,
France, Germany, Holland and Spain.

Delivery and installation

Units are normally delivered by flat bed vehicle and crange facilities should be available on-site for off-loading. Comprehensive installation instructions are supplied with every unit or we can provide an installation service through our nationwide network of Certified Installers.



Full 12 month warranty

A full initial 12 month warranty covering all mechanical and electrical components against malfunction accompanies every BioDisc maintained by Klargester or by a nominated Certified Installer, in accordance with the manufacturer's instructions.

Nationwide availability

Klargester products can be sourced from your local builders merchant or pollution control specialists.

Other products from Klargester

Klargester has a comprehensive range of waste water treatment products, including effluent pumping packages and crude sewage pumping stations as well as surface water treatment and bulk liquid storage products.



Cert. No. 870381



Septic tanks



Cesspools



Small BioDisc treatment plant



Grease traps



Large BioDisc treatment plant



Forecourt Enviroceptors



Light liquid separators



Fuel storage tanks



Silage effluent tanks