BioDisc® BC-BG
Specialised High Performance Package Sewage Treatment Plants for Residential and Commercial Applications
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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.

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 minimised by the managed flow system.

Low 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 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®.

Minimal Impact, Maximum Convenience
BioDisc® is installed below ground level and fitted with low profile covers, minimising visual impact but maximising access for desludging and essential maintenance. Near silent operation means that you will hardly know your BioDisc® is there.

Quick and Easy to Install
The compact shape and single piece design of Klargester’s BioDisc® ensures easier handling and quick installation thus reducing site development costs.

Technical Support
Sizing biological treatment plants requires specialist knowledge. With over 40,000 installations world-wide our experience and expertise is unique. We offer the benefit of over 35 years experience free to customers, by on-site, from our Area Managers or by 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 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.

Long Term Peace of Mind
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.

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

Legal Requirements

Prior to installation, there is a legal requirement to obtain a Consent to Discharge from the Environment Agency. Klargester offer full assistance in this respect.

The Treatment Process

- Waste water flows into the primary settlement zone ❶ 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 ❷.
- Here it is buffered both organically and hydraulically before being fed at a controlled rate to the second stage of the biozone ❸ for further biological treatment.
- Humus solids are settled out in the final settlement tank ❹.
- The quality of the resultant effluent allows discharge into or close to a water course, subject to discharge consents.

BioDisc® BC-BG: For Applications With Population Equivalents Between 18* and 70*  

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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.
Certified Installers
Strategically located throughout the UK, Klargester Certified Installers are appointed following rigorous selection procedures which assess their installation expertise, reputation and financial status. These performance criteria, together with their design skills and knowledge of Klargester products are also reviewed on an annual basis to ensure that the highest levels of professionalism are maintained.

Klargester Service
Klargester have a dedicated service division providing maintenance for waste water treatment products. Factory trained engineers are available for site visits as part of a planned maintenance contract or on an “on-call” basis.

Unique Customer Care
Klargester offers a unique and comprehensive care package both before and after care. Throughout the UK, our team of service engineers is always on hand to ensure that Klargester products provide their owners with a long and cost-effective life. Call our Customer Care Department for further information.

Larger Applications
Klargester also manufactures a range of BioDisc® plant to cater for larger applications such as residential developments, caravan sites and hotels. As specialists in waste water treatment we are able to provide solutions for many different applications. Please contact us for further information.

In keeping with Company policy of continuing research and development and in order to offer our clients the most advanced products, Klargester reserves the right to alter specifications and drawings without prior notice.