BioDisc® BA
High Performance Package Sewage Treatment Plants for Residential Applications
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For domestic dwellings without access to mains drainage, the Klargester BioDisc® provides a reliable, efficient and environmentally safe solution to your sewage disposal needs.

It is ideal for locations where discharge is to sub-surface irrigation, or to a suitable water course where approved by the Regulator, and where a septic tank will not meet the required standards.

Certified to European Standard prEN 12566 - Part 3 - Annexe B - Performance Tests
In 2005, the BioDisc® underwent 40 weeks of stringent testing to assess its treatment efficiency as part of Klargester's commitment to meet the new European Standard for small treatment plants.

After delivering exceptionally high levels of pollution removal (95%) under varying loads and conditions, the BioDisc® was awarded its Performance Certificate. The test report also highlighted:

- BioDisc operates without noise or odour
- Maintenance requirements are low with good access
- No technical of mechanical faults
- Low power consumption at 1.3kw/d - approx 10-14 pence per day*
- Low sludge build up and large storage capacity

Low Lifetime Costs
Lowest running costs combined with the quality and durability of the equipment - particularly the drive motor which has a considerably longer service life than the pumps and blowers fitted to competitive units - all add up to a significantly lower lifetime cost for BioDisc®.

Process Stability
BioDisc® is recognised for its process performance. This is further enhanced by Klargester's unique Managed Flow System, which ensures optimum performance by smoothing peak flows and buffering biological loads over the whole working day.

Dispersal
Subject to relevant authorities consent, the plant discharge can be a watercourse or, provided the soil percolation test is satisfactory, to a drainage field.

Low Profile Covers
Access for service and maintenance is provided via a durable, unobtrusive cover at ground level.

Standard Invert Options
Three standard drain invert level options are available from stock to match the site topography and where applicable, minimise the excavation depth. BA BioDisc® is available with an integral pump to move effluent from point of treatment if site level demands.

Hiab Off-loading
Klargester can provide on-site mechanical off-loading, if required.

Quick and Easy to Install
Supplied as a complete palletised unit with lifting and lowering fixings, the BioDisc® is ready for installation on a suitably prepared site. The unit should be stabilised in concrete and the back fill completed with concrete.

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

12 Month Warranty
A full initial 12 month warranty covering all mechanical and electrical components against malfunction accompanies every BioDisc® installed and maintained in accordance with the manufacturer's instructions, provided the unit has not been subjected to damage or abuse.
How BioDisc® Works

Central to the operation of each BioDisc® is the Rotating Biological Contactor (RBC), which supports a biologically active film or Biomass on to which aerobic micro-organisms, naturally found in sewage, become established. Natural breakdown of sewage can then occur as described below.

The Breakdown Process

Waste water and sewage flows into the primary settlement zone 1 where solids are settled out and retained. This accumulated sludge should be drawn out periodically.

Partially clarified liquor containing fine suspended solids flows upwards into the first stage Biozone 2 for breaking down by micro-organisms on the RBC. Suspended solids return to the primary settlement zone and the liquor is transferred to the second stage Biozone 3 for further treatment.

Any solids remaining are settled out in the final settlement tank 4. The quality of the resultant liquor 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.

Note: BioDisc® is designed to deal with normal domestic sewage. If your application involves combined drainage or the sewage is likely to contain unusual substances, please consult Klargester.
Klargester Off-Mains Solutions

- BioDisc® Sewage Treatment Plants
- AirFlow Sewage Treatment Plants
- Sigma SuperSeptic
- HillMaster Package Pump Systems
- Septic Tanks
- Cesspools

- Grease Traps
- Oil/Water Separators
- Silage Effluent Tanks
- Reed Beds
- Rainwater Harvesting

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 contact or on an ‘on-call’ basis.

Unique Customer Care
Klargester offers a unique and comprehensive care package both before and after supply. 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.