

PRESS INFORMATION



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TITLE: **KEE NOW & BEYOND**

Since disposing of their products business at the end of 1999, KEE has focused their business strategy and philosophy to one of providing solutions to wastewater treatment for industrial and municipal effluents. In doing so, KEE seeks to identify and satisfy the needs of its customers by providing quality engineered solutions, priced to give value for money.

KEE NuDisc® and NuDisc-R®

The compact Single Piece RBC Treatment Plant developed to remove BOD, Ammoniacal Nitrogen, Suspended Solids and Nutrients such as Nitrates and Phosphates for enhanced final effluent. The NEW KEE NuDisc-R® now includes a physical-biological tertiary filter for further solids and substrate removal and UV disinfection for water reuse.

To ensure that KEE continues to satisfy the above mission it launched its **NEW KEE NuDisc-R® Packaged Single Piece RBC Treatment Plant** in January 2008. This plant, as well as the KEE NuDisc®, has been developed to ensure that the higher quality of final effluent demanded by the Environmental Agencies in many countries is consistently achieved. Also, the plants can be adapted to enhance the effluent quality by removing nutrients such as nitrates and phosphates from the effluent. The KEE NuDisc-R® comes with a built-in physical-biological tertiary filter for polishing the final effluent. A UV light disinfection system can also be built into the packaged plant.

Whilst process considerations and consistent performance are a prerequisite of any wastewater treatment system, it is necessary to ensure that the system is cost effective in both operation and maintenance during its lifetime, and provides ease of installation in the initial stages. With these in mind, the **KEE NuDisc®** and **NuDisc-R®** have been developed to offer the following features in the system.

- Single piece self contained system - ease of delivery and installation.
- Fabrication in glassfibre reinforced polyester (GRP) - lightweight and corrosion resistant for long life.
- Tank structure designed for 30 year life.
- Low profile covers with hatches to aid desludging.
- Direct-coupled shaft mounted drive - 100,000 hours L₁₀ life.

*Specialists
in Domestic
& Industrial
Wastewater
Treatment*



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- Easy access to the geared motor drive and bearings via built-in solid GRP floor platform and working area.
- Low maintenance and operating costs with a fixed price maintenance and operation package.
- Extremely low power consumption.
- Optimised process performance through **NuDisc®** technology to reduce effects of hydraulic and organic shock loads.
- Built-in physical-biological tertiary filter.
- Built-in UV light system for effluent disinfection

KEE MAINTENANCE and OPERATION CONTRACTS

Designed to reduce lifetime costs.

The **KEE NuDisc®** and **NuDisc-R®** Packaged Treatment Plants can be covered by the **KEE Elite Contract** which includes regular preventative maintenance and all the consumables and spares required to keep the plant at its optimised operational level. KEE also recognises that its customers want complete peace of mind and, to satisfy this customer need, KEE would take over the total operation of the system, including desludging and sampling of the final effluent. KEE's Operation Staff are based at various locations throughout the United Kingdom and are able to react to emergency calls at short notice.

This concept of offering a product designed to reduce lifetime costs, backed by a professional operation and maintenance package, is aimed at achieving the objective of providing value for money for the customer.

KEE recognises that different sites and characters of wastewater require different technologies to deal with the treatment options. Therefore, it is necessary for KEE to be able to offer unbiased appraisal of process technology for treatment of the wastewater to achieve the best solution for a given circumstance. To facilitate this need, KEE has advanced its technology base to offer activated sludge processes and also fixed film reactor processes. KEE can now offer Extended Aeration, Sequencing Batch Reactors, RBCs and a newly developed Submerged Aerated Filter technology.

KEE NuSAF® TECHNOLOGY

The newly designed EnviroSAF equipment with removable fine bubble diffusers for easy maintenance.

The new EnviroSAF equipment has addressed the issue of diffuser access for operation and maintenance, without the need to remove the media or empty the EnviroSAF tank. KEE has also managed to retain the use of the highly efficient fine bubble diffuser system in the EnviroSAF Reactors.



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The new KEE EnviroSAF Packaged Plant is offered as a compact system or in a modular form. The material of construction for the tanks can be GRP, or steel or *in situ* concrete. This is aimed at offering maximum flexibility in design and construction, to achieve minimum capital expenditure. Alongside the newly developed aeration system, KEE EnviroSAF media is designed to optimise the process performance and maximise utilisation of available oxygen in diffused air. To achieve this, KEE uses the established concept of pressure velocity gradients through the media, by profiling the media to form a series of varying cross sectional channels through the media.

The new KEE EnviroSAF Plant is supplied with duty and standby blowers in an acoustic housing to reduce noise nuisance. The EnviroSAF Unit is designed to be installed underground but can be installed above ground if required. Each reactor is divided into three stages to optimise the process, and air supply can be adjusted to suit the process requirements and final effluent criteria.

The KEE EnviroSAF Plant comes complete with low-profile pedestrian duty covers which are hinged with stay bars for ease of access for maintenance and inspection.

KEE PRODUCTS

New additions to The KEE Solution to Wastewater Pollution Treatments.

In order that KEE can satisfy its customers' requirements, KEE has recently taken up an agency agreement for distributing aeration equipment from Aeration Industries International Inc. The products include:

- Aire-O₂ TRITON® Process Aerator/Mixer to improve oxygen transfer and mixing, with the benefit of biological nutrient removal.
- Aire-O₂® Aspirator Aerator for enhanced mixing.
- Aire-O₂ Turbo® Surface Aerator to achieve maximum oxygen transfer and mixing.
- Aire-O₂® Mixer. Slow speed variable angle mixer with anti-fouling propeller.
- Aire-O₂ Microfloat® Dispersed Air Flotation System for physical/chemical pre-treatment of fat, oil and grease at a lower cost than traditional DAF systems.

After three years of operating as provider of solutions for industrial and municipal wastewater treatment, KEE is now able to offer its customers a single stop shop concept for their total needs for handling, containing and treatment of wastewater.

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