BIOFICIENT

The BioFicient has been specially designed for shallow dig applications, allowing for an unobtrusive below ground installation. Its unique design features include its low profile and extension neck, saving on-site time and expense.



TECHNICAL INFORMATION

HOW THE BIOFICIENT WORKS

The moving aerated media process used is a compact development of the traditional biological process and provides a more effective and complete means of reducing the loads.

1. Raw sewage gravitates to the unit where it is received in the primary settlement zone. Here, gross solids and other social debris settle to the bottom of the tank where they remain until the tank requires desludging. Settled sewage is displaced from primary zone and enters the first of : two sequential moving aerated media reactors.

2. Media and liquid circulation in each zone is achieved through the use of a compressor and diffuser, which introduces fresh air into each compartment. The liquor is constantly re-circulated and contacts the moving media and as it does so, it is purified by the microorganisms (biomass) growing on the surface of the media and within the moving liquor. Excess growth of biomass is shed as solid particles into the liquor.

3. The final settlement tank is where humus solids settle to form sludge. At preset intervals, portions of the sludge and liquor are returned to the primary tank for additional treatment.

4. Final effluent is displaced from the final settlement tank. With regulator approval, it is suitable for discharge to a watercourse or drainage field.

Model	BioFicient 1	BioFicient 2	BioFicient 3	BioFicient 4	BioFicient 5	BioFicient 6
Population Equivalent	6	8	10	15	20	30

Overall Diameter (mm)	1420	1420	1420	1920	1920	1920
Length (mm)	2360	3760	3760	3230	4390	6220
Inlet invert (mm)	500-800	500	500	500	500	500
Outlet invert (mm)	600-910	600	600	600	600	600
Material	Plastic	GRP	GRP	GRP	GRP	GRP

OVERVIEW

FEATURES AND BENEFITS

The BioFicient is a highly economical and reliable solution for your sewage treatment needs. With low running costs, the all new BioFicient is easy to maintain - with the high performance you'd expect from a Kingspan Klargester model.
Shallow dig
Newhigh performance compressor
Robust and damage resistant due to MDPE construction
Minimal visual impact
Excellent ammonia reduction (0.4mg/l)
Installation in trafficked areas(structural advice required)
Saving on-site installation time and costs
EN 12566-3 tested and approved
CE-marked

NEW! Integral pump discharge option is now available for the Bioficient 1 model

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