

Klargester BioFicient+[®]

Domestic Sewage Treatment Plant

The Klargester BioFicient+ sewage treatment plant provides a reliable and effective solution, suitable for homes with up to 10 people and is S.R.66:2015 compliant.

Applications

The Klargester domestic BioFicient+ range is suitable for a variety of applications, including:



Single & Multiple Homes



Barn Conversions



Small Offices



Light Industrial Premises



Farms

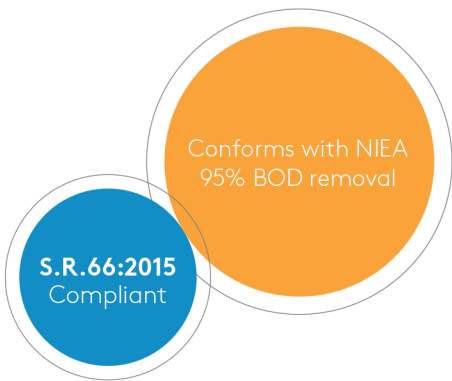


Product Benefits

- Shallow dig with minimal visual impact.
- Easy and affordable installation.
- Low power consumption.
- Modern design allows for desludging through the wide neck.
- BioFicient+ conforms with NIEA 95% BOD removal.

The Klargester BioFicient+ unit is a new generation of package sewage treatment plant developed to treat domestic sewage waste. With two sizes available, it offers a simple and compact system comprising three treatment zones within a 'uni-tank' design.

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



01

Wastewater and sewage flows into the primary settlement tank where solids are settled out and retained. Settled sewage is displaced from primary zone and enters the aerated media reactor (Biozone).

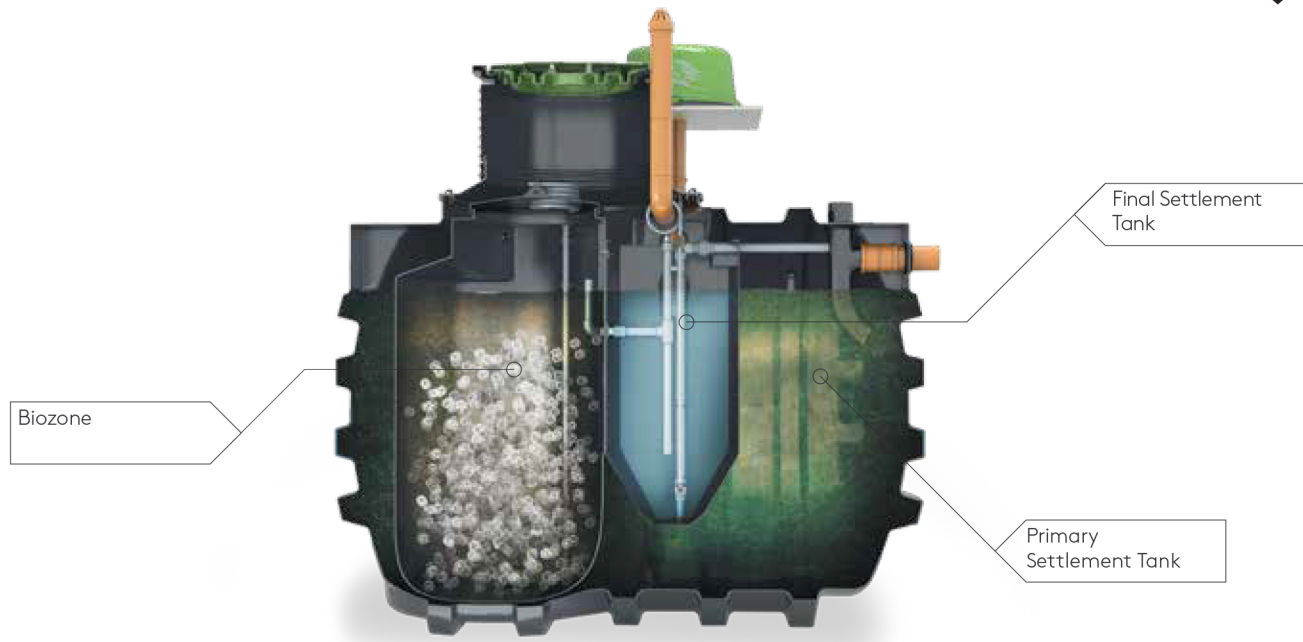
02

Solids are broken down by air agitated media in the Biozone. Media and liquid circulation in the Biozone is achieved through the use of a compressor and diffuser, which introduces fresh air into each compartment. The liquor is constantly recirculated and contacts the moving media and as it does so, it is purified by the micro organisms growing on the surface of the media and within the moving liquor. Excess growth of biomass is shed as solid particles into the liquor.

Technical Specifications

Model	BioFicient 1+	BioFicient 2+
Population Equivalent	6	10
Overall Diameter (mm)	1,690	2,010
Length (mm)	2,480	3,189
Depth (mm)	2,355	2,785
Inlet Invert (mm)*	575-1,500	700-1,500
Outlet Invert (mm)	675-1,600	800-1600
Material	MDPE	MDPE
Blower Ratings	50W	95W
Cover sizes	700	700

Note: Models BioFicient1+ and BioFicient 2+ available to NI Market only. Optional inlet depth down to 1800mm
*BioFicient IPS models only (Outlet Depth 320mm)



03

The final settlement tank is where fine solids form to sludge. At preset intervals, portions of the sludge and liquor are returned to the primary tank for additional treatment. The primary and final settlement zones should be emptied of sludge every 12 months.

04

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

Easy to Install



Performance and Compliance

- › Fully **CE** marked in line with the CPR 2013.
- › Fully compliant, tested and approved to IS EN12566 / S.R.66: 2015.
- › Conforms with NIEA 95% BOD removal.