

Kingsp	Kingspan				NYMNPA 07/01/2022			
Water M	lähdgement							
	Outlet Invert (mm)	600- 910/555- 865*	600/1100/1600	630/	1130/1630	630/1	530/1130/1630	
	Material	MDPE	GRP	GRP		GRP		
	Cover Sizes	700	900	1500/	/900	1500/	900	

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Optional inlet depth down to 1800mm

*BioFicient 1 IPS model only

**BioFicient 6 has two shafts

Applications

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NYMNPA 07/01/2022

Water Management

1-4 model

Technical information

How the Klargester 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.

I	BioFicient 1	BioFicient 3	BioFicient 4	BioFicient 5
PE	6	10	15	20
Overall Diameter (mm)	1540	1425	1920	1920

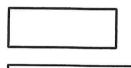
Kingspan.

Water Management

and a discreet profile. The BioFicient® is easy to maintain, highly efficient and a reliable solution for your sewage treatment needs. Offering low running costs but with the kind of high performance you would expect from any Klargester product.

- Unique design features, including a low-profile cover and adjustable extension neck.
- Shallow dig applications allow for a faster on-site installation time and low expense.

For more information call our team today on one of the alternate options below.



PIA Certificate BioFicient PE

PIA Certificate BioFicient GRP

Key Benefits

- Shallow dig
- New high performance compressor
- Robust and damage resistant due to MDPE construction
- Minimal visual impact
- Excellent ammonia reduction (0.4mg/I)
- Installation in trafficked areas (structural advice required)

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NUIYESLEI DIVI LIEIT Domestic Sewage **Treatment Plant**

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Service and guarantee You may also be interested in

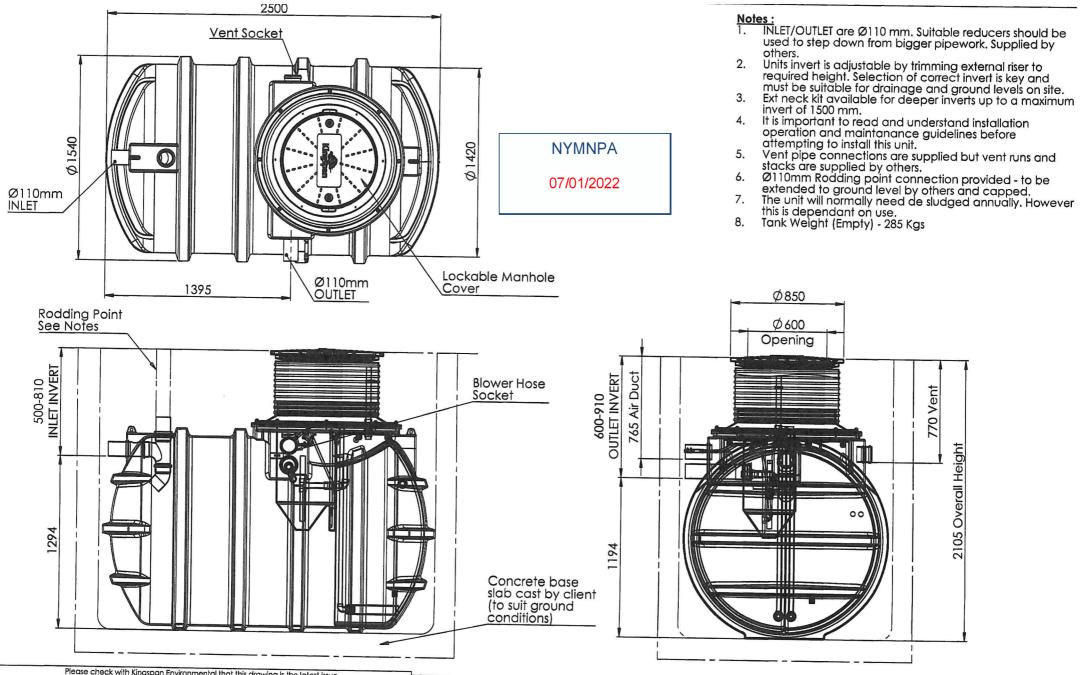
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All dimensions in mm

Scale: Not to scale

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Environmental

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SYSTEM OVERVIEW

Pictorial representation below indicates basic requirements for a standard system, please note that not all of the items required are supplied by Kingspan. **BLOWER HOUSING** AIR DUCT (BY OTHERS) CONCRETE PLINTH (BY OTHERS) ACCESS COVER **INCOMING MAINS** POWER DUCT (BY OTHERS) **OUTLET PIPEWORK RODDING POINT** BIOZONE 1&2 (IF REQUIRED) **AIR DIFFUSERS INLET PIPEWORK** NYMNPA FINAL SETTLEMENT TANK 07/01/2022 & SLUDGE RETURN SYSTEM PRIMARY SETTLEMENT TANK