

Wastewater Treatment Solutions

**Klargester**

## BioTec+ Sewage Treatment Plant

The BioTec+ is the newest addition to our sewage treatment plant portfolio. Our most economically priced plant in the range offers customers all the benefits of a Klargester product without the price tag. With flexible installation options to suit a variety of domestic sites, low visual footprint and suitable for shallow dig applications, the Klargester BioTec+ is a cost-efficient choice for your domestic wastewater treatment solution.

3.5mg/l  
phosphate

Total P  
Removal  
60.8%

TNb  
75.5%  
15mg/l  
nitrate



\*Terms and conditions apply. View online at: <https://www.kingspan.com/gb/en/services/kingspan-klargester-guarantee-form/thank-you-for-registering-your-warranty/>

klargester.ie

  
**Kingspan**®

# How it Works



## Stage 1:

Crude sewage enters the system through an inlet pipe on the side of the BioTec+



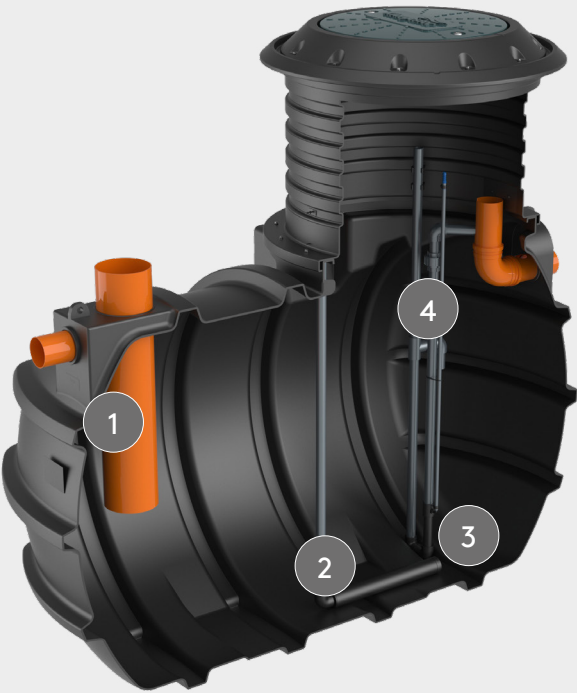
## Stage 2:

Compressed air comes from the blower to the diffuser leg through a cable duct. Sewage is aerated via a diffuser at the bottom of the reactor. 8 min ON / 2 min OFF / 9H Total



## Stage 3:

Naturally occurring micro-organisms form part of this aerated mixture and will efficiently break down the pollutants in the sewage.



## Stage 4:

After 9 hours, aeration stops and solids will settle in the bottom of the tank. Clearwater removal is airlifted from the tank to the outlet pipe.

# Product Features

98.5%

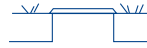
Improved effluent  
quality – BOD<sub>5</sub>  
98.5%



SR66: 2015



Easy to install  
and operate



Low Profile  
Cover



Lightweight no  
crane needed



Low running  
costs

## Specifications

BioTec+	Model	BioTec+ 2	BioTec+ 3	BioTec+ 4	BioTec+ 5	BioTec+ 6	BioTec+ 7	BioTec+ 8	BioTec+ 9
Population Equivalent	Unit	6	9	12	16	20	25	35	50
Daily Flow	m <sup>3</sup> /d	0.90	1.35	1.80	2.40	3.00	3.75	5.25	7.50
Daily Load	kg BOD <sub>5</sub> /d	0.36	0.54	0.72	0.96	1.20	1.50	2.10	3.00
Daily Flow Q <sub>10</sub>	m <sup>3</sup> /h	0.09	0.135	0.18	0.24	0.3	0.375	0.525	0.75
Measurements									
Inlet invert (Gravity /IPS)	mm	645 -1400 / 845 - 1400	730 - 1400 / 930 -1400	500-2000 / 1000-2000	500-2000 / 1000-2000	500-2000	500-2000	500-2000	500-2000
Discharge Option		Gravity /IPS	Gravity /IPS	Gravity /IPS	Gravity /IPS	Gravity	Gravity	Gravity	Gravity
Outlet Invert	mm	745 -1500 / 500 - 1165	830 - 1500 / 580 - 1050	600-2100 / 500	600-2100 / 500	600-2100	600-2100	600-2100	600-2100
Diameter	mm	1540	1690	1420	1920	1920	1920	1920	1920
Length	mm	2480	2480	4274	3238	3963	4752	6640	9315
Installation Depth	mm	1995-2750 / 2115 - 2780	2250 - 2920 / 2370 - 2960	1835-3335 / 2335-3335	2250-3750 / 2750-3750	2250-3750	2250-3750	2250-3750	2250-3750
Inlet Pipework	mm	Ø110	Ø110	Ø110	Ø110	Ø110	Ø110	Ø160	Ø160
Outlet Pipework (Gravity /IPS)	mm	Ø110 / Ø50	Ø110 / Ø50	Ø110 / Ø50	Ø110 / Ø50	Ø110	Ø110	Ø160	Ø160
Material Construction	MDPE/GRP	MDPE	MDPE	GRP	GRP	GRP	GRP	GRP	GRP
Unit Weight	kg	175 /185	195 / 210	260 /290*	350 /360*	405	460	690	890

\*Tank weight based on 500mm invert



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any of our products:

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