

Wastewater Treatment Solutions
GB



Clearwater BioAir and BioFicient Domestic Sewage Treatment Plants



The Clearwater BioAir and BioFicient sewage treatment plants employ aerated technology, delivering a high level of water discharge quality. With adaptable installation choices to accommodate diverse domestic locations, a discreet visual profile and third party tested to EN 12566-3, the Clearwater BioAir and BioFicient systems stand as financially sensible options for your household wastewater treatment needs.

Applications

The Clearwater BioAir and BioFicient sewage treatment plants are suitable for use across the following applications:



Single & multiple
homes



Light industrial
premises



Small offices



Farms



Barn conversions



Clearwater BioAir



Clearwater BioFicient

klargester.co.uk

Technical Specifications

Clearwater BioAir	Model	BioAir 2	BioAir 3	BioAir 4	BioAir 5	BioAir 6	BioAir 7	BioAir 8
Population Equivalent	Unit	6	9	12	15	20	25	35
Daily Flow	m ³ /d	0.9	1.35	1.8	2.25	3	3.75	5.25
Daily Load	kg BOD ₅ /d	0.36	0.54	0.72	0.9	1.2	1.5	2.1
Daily Flow Q ¹⁰	m ³ /h	0.09	0.135	0.18	0.225	0.3	0.375	0.525
Measurements								
Inlet Invert (Gravity/IPS)	mm	645-1430	750-1440 / 950-1440	500-2000 / 1000-2000	500-2000 / 1000-2000	500-2000	500-2000	500-2000
Discharge Option	-	Gravity /IPS	Gravity /IPS	Gravity /IPS	Gravity/IPS	Gravity	Gravity	Gravity
Outlet Invert (Gravity/IPS)	mm	745-1530 / 600-1385	850-1540 / 585-1075	600-2100	600-2100	600-2100	600-2100	600-2100
Diameter	mm	1540	1690	1920	1920	1920	1920	1920
Length	mm	2480	2480	3238	3605	4400	5550	7400
Installation Depth (Gravity /IPS)	mm	1995-2780	2250-2940 / 2450-2940	2245-3745	2245-3745	2245-3745	2245-3745	2245-3745
Inlet Pipework	mm	Ø110	Ø110	Ø110	Ø110	Ø110	Ø110	Ø160
Outlet Pipework (Gravity /IPS)	mm	Ø110 / Ø50	Ø110 / Ø50	Ø110 / Ø50	Ø110 / Ø50	Ø110	Ø110	Ø160
Material Construction	MDPE/GRP	MDPE	MDPE	GRP	MDPE	GRP	GRP	GRP
Unit Weight (Gravity/IPS)	kg	210/220	240/250	360/375*	425/435*	440*	535*	700*

*Clearwater BioAir Note: Tank weight based on 500mm Invert

Clearwater BioFicient	BioFicient 1	BioFicient 3	BioFicient 4	BioFicient 5	BioFicient 6	BioFicient 17	BioFicient 23
Population Equivalent	6	10	15	20	30	35	50
Overall Diameter (mm)	1,540	1,425	1,920	1,920	1,920	1,920	1,920
Length (mm)	2,500	3,770	3,230	4,390	6,220	7,381	9,312
Depth (mm)	1885-2795	1830/2330 / 2830	2300/2800 / 3300	2300/2800 / 3300	2300/2800 / 3300	2275/2775 / 3275/3775	2275/2775 / 3275/3775
Inlet Invert (mm)	590-1500 (Gravity) 1060-1500 (IPS)	500/1000 / 1500	500/1000 / 1500	500/1000 / 1500	500/1000 / 1500	500/1000 / 1500/2000	500/1000 / 1500/2000
Outlet Invert (mm) - Gravity	690-1600	620/1200 / 1620	630/1130 / 1630	630/1130 / 1630	630/1130 / 1630	600/1100 / 1600/2100	600/1100 / 1600/2100
Outlet Invert (mm) - Pumped	1155-1555	320	320	Not Available			
Material	MDPE	GRP	GRP	GRP	GRP	GRP	GRP
Blower Ratings	50W	95W	115W	180W	225W	270W	270W
Product Weight (Kgs)	285	300	450	550	740	1200	1450
Cover Sizes	600	1,440/900	1440/900+600*	1440/900+600*	1440/900+600*	1000x600 + Ø600**	1000x600 + Ø600**

*BioFicient 4, 5, 6 have two shafts. **BioFicient 17 & 23 have 3 No. 1000 x 600 + Ø600mm shafts.

For more information on any of our products: GB:

T: +44 (0) 1296 633 033 | E: klargest@kingspan.com | W: klargest.co.uk

Disclaimer: We take every care to ensure that the information in this document is accurate at the point of publication. Dimensions may vary within a small parameter due to manufacturing process variations or environmental conditions. All images are for illustration purposes only and, along with dimensions, should not be taken as binding. The actual product may vary and aspects such as equipment specification/colour may differ. To ensure you are viewing the most recent and accurate product information, please visit <https://water.kwe.kingspan.com/clearwater-sewage-treatment-plant-datasheetor> scan the QR code. ©Kingspan and the Lion Device are Registered Trademarks of the Kingspan Group in the UK, Ireland and other countries. All rights reserved. Registered in Country No. NI017631. Registered Office: 180 Gilford Road, Portadown, Co. Armagh, BT635LF. VAT GB412 5124 03

