

Klargester

Clearwater Large Sewage Treatment Plant Datasheet



The Clearwater Large Sewage Treatment Plant is designed with efficiency in mind. This innovative system uses a fixed bed of media where natural bacteria grows to breakdown wastewater efficiently, delivering reliable, high quality wastewater treatment.

Why choose a Clearwater Large Sewage Treatment Plant solution?

- Preassembled control kiosk
- Suitable for vehicle areas (subject to structural design)
- Easy to install single piece tank
- Compliant with EN 12255
- Variable invert options (0.5-2.0m)
- Service and commissioning available as optional extra



As part of our Planet Passionate programme, Kingspan are dedicated to delivering innovative surface water management technologies, developed on the back of 70 years' experience.

*Terms and conditions apply. View online at:
<https://service.kwe.kingspan.com/warranty-registration-ie>

Clearwater Large Sewage Treatment Plant

How it Works

The Clearwater Large Sewage Treatment Plant uses a plug-flow process that combines aerobic and anoxic treatment within a fixed-bed design to achieve high levels of purification. Wastewater first enters the Primary Settlement Tank, where solids settle out in two stages before the clarified liquid is transferred onward.

It then flows into the aerated biozone via a controlled airlift, where air diffusers and biomedica support the growth of bacteria that break down organic matter.

Finally, the treated effluent moves into the Final Settlement Tank, where remaining bacteria settle out before the clean, purified effluent is discharged by gravity through the outlet.

Technical Specifications

Model Reference	FBCSTP 1	FBCSTP 2	FBCSTP 3	FBCSTP 4	FBCSTP 5	FBCSTP 6	FBCSTP 7	FBCSTP 8
Max Flow (m ³ /day)	11.25	15.75	20.25	25.5	30.75	37.5	43.5	48
Overall Length (mm)	5394	6611	8150	9684	11222	12760	14295	15833
Overall Height								
500mm Inlet Invert	2965	2965	2965	2965	2965	2965	2965	2965
1000mm Inlet Invert	3465	3465	3465	3465	3465	3465	3465	3465
1500mm Inlet Invert	3965	3965	3965	3965	3965	3965	3965	3965
2000mm Inlet Invert	4465	4465	4465	4465	4465	4465	4465	4465
Diameter (mm)	2820	2820	2820	2820	2820	2820	2820	2820
Volume (m ³)	22	30	38	46	54	63	71	79
Weight Approx (Kgs)	2500	3000	3400	3800	4200	4600	5000	5500
Inlet /Outlet Diameter (mm)	160	160	160	160	160	160	160	160
Desludge Period (Days)**	84	29	68	57	41	58	43	40

** Desludge days can be increased by increasing the length of the tanks, except for FBCSTP8 which cannot be extended.

For more information on
any of our products:

T: +44 (0)28 3026 6799
E: klargestinfo@kingspan.com
W: klargest.ie



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 scan the QR code above or click the following link: <https://www.kingspan.com/content/dam/kingspan/kwe/products/commercial-sewage-treatment-plant/klargest-clearwater-large-sewage-treatment-plant-datasheet-en-ie.pdf>. ©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 Gifford Road, Portadown, Co. Armagh, BT635LF. VAT GB412 5124 03