Water Management Solutions



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



*Terms and conditions apply. View online at: https://waterandsafestorage.kingspan.com/ie/service-maintenance/warranty-registration

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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 biomedia 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
Maximum Daily BOD (kg)	4.5	6.3	8.1	10.2	12.3	15	17.4	19.2
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	28	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:

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