

KRYPTONwater

kryptonCOM

"compact sewage treatment plants"

Products



Overview:

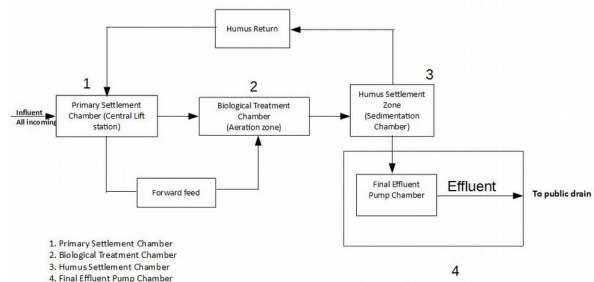
The kryptonCOM range of modular compact treatment plants provides a scalable extended aeration solution for your wastewater needs. Combining a proven, robust yet economical process for the full biological treatment of sewage.

Summary:

- Safe and robust processed
- No primary sedimentation required
- Domestic and industrial waste treatment
- Straight forward operation
- Water re-use capability- Small footprint
- Population equivalents of 100 to 10,000
- Reduce excavation and simple foundations
- Glass fused steel process tanks, with optional coated steel, or concrete*
- Final effluent quality (mg/l) BOD 20, SS 30, COD 125, Phosphorus 3, Total Nitrogen 10
- Final effluent quality with optional sand filters and chemical dosing BOD 10, SS 10, COD 70, Phosphorus 1, Total Nitrogen 10

Benefits:

- High quality effluent that fulfils Lagos State Government wastewater discharge consents
- Rapid installation
- Reduced quantity of stable sludge produced
- Numerous process applications
- Handles shock loads
- Minimal operator attendance
- Practically odourless
- Higher effluent consents achievable through additional process units.



Kryptonwater

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System Description:

The kryptonCOM compact treatment plant provides a complete wastewater solution, from raw water influent screening through to final effluent outlet.

The kryptonCOM utilises the well established process of extended aeration with an integrated anoxic zone for nitrogen removal. No primary sedimentation is required and the plant is capable of taking shock and peak loads. For sensitive zones and irrigation reuse additional packaged items can be added to achieve higher effluent qualities namely: sand filters, chemical dosing for phosphorous removal and disinfection.

Biological sludge formed during the purification process is oxidised to such an extent that the small quantity produced is stable and be easily processed without odour.

Sludge is held within the integral sludge holding tank and disposed of via the integral sludge feed pumps or tanker facilities with the minimum of nuisance.



Construction costs are reduced as the tanks are normally situated above ground thus minimizing excavation with a simple raft foundation usually being sufficient. The system is easy to operate and maintain and has a proven track record providing effective treatment of both domestic and industrial wastes.



Oxidation within the system is carried out by means of fine bubble diffusion and the energy consumption is optimized by the use of automatic dissolved oxygen control. This provides the necessary oxygen for the activated sludge and maintains flow velocity in the plant thus preventing settlement. It also serves to break up larger solid particles and ensures complete mixing of the liquor. The design is standardized for a range of population equivalents 100 to 10,000 but can be easily increased up to 20,000. Glass fused steel is used for the main process tanks ensuring rapid installation, high quality, aesthetically pleasing appearance, long life span and low maintenance.

Model	PE (population equivalent)	BOD5 kg/day (0.06kg per person/ day)	Flow m3/day (200 litres per person/ day)	Total Area Required (m2)	Qty
KryptonCOM 1	100	6	20	10	1
KryptonCOM 2	200	12	40	20	1
KryptonCOM 3	500	30	100	20	1
KryptonCOM 4	1000	60	200	20	1
KryptonCOM 5	5000	300	1000	30	1
KryptonCOM 6	10000	600	2000	30	1

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