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GRAF Wastewater Treatment

The One2Clean

A reliable wastewater disposal system no longer needs to be complicated. With the One2Clean, you'll be able to take responsibility for the timely disposal of your wastewater while taking care of your budget and the environment. The One2Clean is an advanced development of the proven SBR wastewater treatment technology, with considerable advantages in terms of operating costs and safety.



Main Features

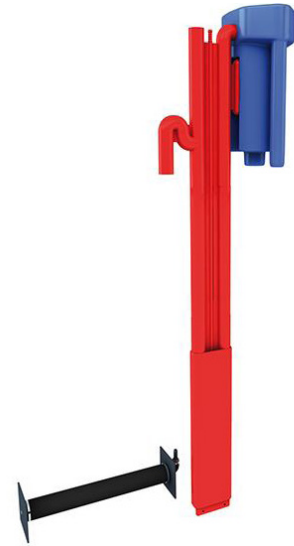
- Only ONE tank with only ONE chamber required
- Less energy consumption and less wear
- No mechanical elements in the wastewater
- No pumps in the wastewater
- No electrical components in the wastewater
- Incredibly little sewage sludge-aeration of entire wastewater tank
- Minimum maintenance costs - simple construction, high quality components
- Minimum power consumption - only 75 kWh per person, per year
- Tank comes in two stackable pieces for low-cost transportation
- Odourless. The entire system is immediately activated with oxygen using unique One2Clean technology.



One2Clean Setting-up Kit

Unlike conventional wastewater treatment systems which use up to three pumping processes, the One2Clean only requires one. This saves energy and extends the lifetime of the air compressor - the core part of the system.

The rugged clear water lifter is manufactured in one seamless piece; no connectors or screws are necessary. The unit requires only simple maintenance via an integrated, self-cleaning sampling container.



One2Clean System Control

- Compact designed controller
- Simple operation and maintenance
- Ultra quiet, thanks to silent diaphragm compressor
- Automatic power failure detection



3 Steps to Produce Clear Water

The One2Clean conveniently needs only 3 steps to produce clear water:



1. Wastewater Treatment

The wastewater arrives directly in the biological zone without the need for pumping processes. Aeration of the entire container leads to immediate wastewater activation. The micro-organisms begin the biological cleaning process without delay.



2. Settling Phase

Aeration is interrupted by the control unit and the activated sludge sinks to the bottom. A clear water zone develops in the upper part of the container.



3. Clear Water Extraction

The treated clear water is extracted from the system and the cleaning process can begin once more.



The One2Clean Systems

Choose from one- and two-reservoir systems

One-Reservoir System

Max Inhabitants	USG	IG	LTR	Daily Flow (LPD)	Length (in)	Height (in)	Weight (in)
3	700	590	2700	450	66.5	81.9	385
5	990	820	3750	750	74	89.8	485
7	1270	1050	4800	1050	83	89.8	585
9	1720	1430	6500	1350	94.1	89.8	585

Two-Reservoir System

Max Inhabitants	USG	IG	LTR	Daily Flow (LPD)	Length (in)	Height (in)	Weight (in)
3	700	590	2700	450	66.5	81.9	385
5	990	820	3750	750	74	89.8	485
7	1270	1050	4800	1050	83	89.8	585
9	1720	1430	6500	1350	94.1	89.8	585

Cleaning Performance Values

Wastewater Parameter	Cleaning Performance	Efficiency Factor
Chemical Oxygen Demand	26 mg/l	96%
Biochemical Oxygen Demand	5 mg/l	99%
Ammonium Nitrogen	0.4 mg/l	99%
Total Nitrogen	13 mg/l	79%
Total Suspended Solids	6 mg/l	98%