One2Clean

GRAF

Product Specification Sheet

The Graf One2clean biological wastewater treatment system features a user-friendly control panel for simplicity, and a design emphasising efficiency, quality and an energy usage starting from just 0.63kWh/d. With the Graf System Sizing & Effluent Quality – Advanced Package (Upgraded Control Panel) (optional extra), effective wastewater management with high discharge quality is guaranteed when using dosing add-ons, meeting the strictest requirements of nutrient neutrality.

System Sizing & Effluent Quality

Nominal organic daily load (at a test influent of ≥ 300 mg/l BOD5 (mean)) = 0.27 kg/d   Nominal hydraulic load = 0.75 m³/day

Population	Tanks	COD Efficiency	COD Effluent	BOD$_5$ Efficiency	BOD$_5$ Effluent	SS Efficiency	SS Effluent	NH$_4$N** Efficiency	NH$_4$N** Effluent	N$_{tot}$** Efficiency	N$_{tot}$** Effluent	P$_{tot}$ Efficiency	P$_{tot}$ Effluent
5PE*	3,750L												
7PE*	4,800L												
9PE*	6,500L												
12PE*	8,500L	94.2%	43mg/l	98.0%	7mg/l	96.3%	14mg/l	98.3%	0.5mg/l	87.0%	7.9mg/l	80.2%	1.6mg/l
15PE*	10,000L												
18PE	2x 6,500L												
19PE*	13,000L												

Also available as an advanced system with upgraded control panel (see below)
**determined for temperatures ≥ 12 ° C in the bioreactor*

System Sizing & Effluent Quality – Advanced Package (Upgraded Control Panel)

Nominal organic daily load (at a test influent of ≥ 300 mg/l BOD5 (mean)) = 0.27 kg BOD5/d   Nominal hydraulic load = 0.75 m³/day

Population	Tanks	COD Efficiency	COD Effluent	BOD$_5$ Efficiency	BOD$_5$ Effluent	SS Efficiency	SS Effluent	NH$_4$N** Efficiency	NH$_4$N** Effluent	N$_{tot}$** Efficiency	N$_{tot}$** Effluent	P$_{tot}$ Efficiency	P$_{tot}$ Effluent
5PE	3,750L												
7PE	4,800L												
9PE	6,500L												
12PE	8,500L												
15PE	10,000L												
19PE	13,000L	94.8%	41mg/l	98.1%	7mg/l	96.6%	14mg/l	98.5%	0.5mg/l	87.0%	7.9mg/l	80.0%	1.6mg/l
24PE	16,000L												
32PE	22,000L												
45PE	32,000L												
50PE	38,000L												
60PE	44,000L	On application											
70PE	48,000L	On application											

**determined for temperatures ≥ 12 ° C in the bioreactor*

Advanced System Add-Ons
- » +K Control panel can be calibrated for under-loading.
- » +C Carbon dosing (for holiday homes, etc)
- » +P Phosphate removal
- » +O Pumped outlet (IPS)
- » +H Disinfection via UV light of Chlorine Dosing
- » +R Remote Modem, LAN and GPRS options
- » +D Denitrification package