

## Product Specification Sheet

The Graf One2clean biological wastewater treatment system features a user-friendly control panel for simplicity, and a design emphasising efficiency and quality. 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  $\geq 300$  mg/l BOD<sub>5</sub> (mean)) = 0.27 kg/d Nominal hydraulic load = 0.75 m<sup>3</sup>/day

Population	Tanks	COD		BOD <sub>5</sub>		SS		NH <sub>4</sub> N**		N <sub>tot</sub> **		P <sub>tot</sub>		Electrical Consumption
		Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	
5PE*	3,750L	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	0.63kWh/d
7PE*	4,800L													
9PE*	6,500L													
10PE	2x 3,750L													
12PE*	8,500L													
14PE	2x 4,800L													
15PE*	10,000L													
18PE	2x 6,500L													

\*Also available as an advanced system with upgraded control panel (see below)

\*\*determined for temperatures  $\geq 12$  ° C in the bioreactor

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

Nominal organic daily load (at a test influent of  $\geq 300$  mg/l BOD<sub>5</sub> (mean)) = 0.27 kg BOD<sub>5</sub>/d Nominal hydraulic load = 0.75 m<sup>3</sup>/day

Population	Tanks	COD		BOD <sub>5</sub>		SS		NH <sub>4</sub> N**		N <sub>tot</sub> **		P <sub>tot</sub>		Electrical Consumption
		Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	Efficiency	Effluent	
5PE	3,750L	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	0.63 kWh/d
7PE	4,800L													
9PE	6,500L													
12PE	8,500L													
15PE	10,000L													
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  $\geq 12$  ° 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

