

Introducing the cutting-edge One2Clean treatment plant range



Setting the standard

- ✓ Only one tank with just 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 low volume of sewage sludge

ADVANCED TECHNOLOGY

The go to treatment plant for Nutrient Neutrality.

Unrivalled effluent quality.

Treatment levels -

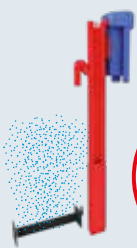
BOD – 7mg/l

Suspended Solids – 14mg/l

Ammonia – 0.5mg/l

Phosphate – 1.6mg/l

Nitrate – 7.9mg/l



**EFFICIENCY
FACTOR OF
UP TO 99 %**



**MINIMAL
OPERATING
COSTS**

one2clean set-up kit

- Conventional wastewater treatment systems require up to three pumping processes. one2clean only requires one pumping process, which saves energy and extends the lifetime of the air compressor – the core part of the system
- Rugged clear water lifter manufactured in one seamless piece. No connectors or screws necessary
- Simple maintenance via an integrated, self-cleaning sampling container

one2clean system control

- The one2clean has a compact controller
- The microprocessor control system ensures simple operation and maintenance

Wastewater tank

- Telescopic cover
- State-of-the-art manufacturing for maximum stability
- Suitable for vehicle loading in conjunction with telescopic vehicle dome shaft
- 100% watertight and corrosion-resistant
- Can be installed in groundwater

The one2clean system

The only wastewater underground tank of it's kind!



PRODUCT QUALITY

German engineering.



SUSTAINABILITY

Low power consumption - Daily energy usage of your One2clean treatment plant – from 0.59kWh/d.

Quiet operation – High quality diaphragm compressors.

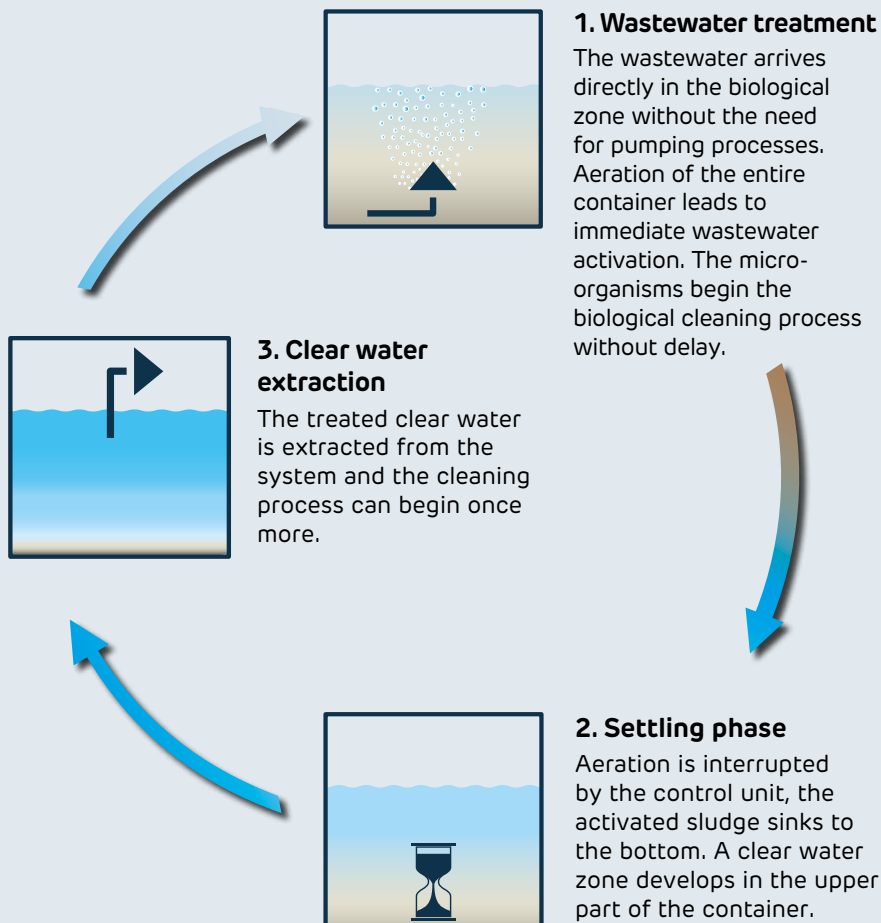
CUSTOMER SERVICE

Lifetime support – Customer support on your project from start to finish.

GRAFTER network – Graf accredited service provider network for all your service and maintenance needs.



HOW IT WORKS



Incredibly low volume of sewage sludge

- Aeration of the entire wastewater tank
- Immediate wastewater activation
- Minimisation of sludge
- Less sludge removal
- Cost savings

Conventional wastewater treatment systems



one2clean



Low maintenance costs

- Simple construction
- High-quality components
- Maximum performance using optimised technology
- Integrated sampling point

Minimal power consumption

- The one2clean has only one pumping process, reducing energy consumption and running costs
- Economical motor valve
- Energy-optimised membrane compressor

The one2clean system

The only wastewater underground tank of it's kind!



One2Clean systems

Inhabitants [max.]	Standard control system	Advanced control system	Max. daily flow [l/d]	Max. organic load [kg BOD5/d]	Total volume [l]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Product code
5	✓	✓	750	0.3	3,750	2280	1755	1880	150	G50000
7	✓	✓	1,050	0.42	4,800	2280	1985	2110	185	G50002
9	✓	✓	1,350	0.54	6,500	2390	2190	2390	220	G50004
12	✓	✓	1,800	0.72	8,500	3500	2040	2515	380	G50200
15	✓	✓	2,250	0.9	10,000	3520	2240	2575	455	G50204
18*	✓	✗	2,700	1.08	13,000	5380	2190	2390	440	G50010
19**	✓	✓	2,850	1.14	13,000	4000	2420	2755	510	TBC
24	✗	✓	3,600	1.44	16,000	4590	2500	3160	890	G50300
32	✗	✓	4,800	1.92	22,000	6230	2500	3160	1085	G50302
45	✗	✓	6,750	2.70	32,000	8440	2500	3160	1430	G50304
50	✗	✓	7,500	3.00	38,000	9925	2500	3160	1630	G50306
60	✗	✓	9,000	3.60	44,000	11440	2500	3160	1840	G50308
70	✗	✓	10,500	4.20	48,000	12140	2500	3160	1970	G50310

18* - Two tank system

19** - Not available until summer 2024

Advanced control system incorporates an advanced Control M controller with plug and play options.

Technical data

System	one2clean
System conformity	EN 12566-3
Purifying technology	fully biological SBR lifting technology
One-tank systems available up to	9 inhabitants 1,350 l/d
Two-tank systems available up to	18 inhabitants 2,700 l/d
Maintenance interval	1 – 2 per year
Warranty for underground tank	15 years
Warranty for purifying technology	3 years
Cleaning performance	7, 14, 0.5

Control	
Holiday mode	Manual
+D Removal of nitrogen	●
+C Carbon infeed	○
Logbook function	●
Operation	4 keys
External control cabinet for installing control unit outdoors	○
Annual power consumption	230 kWh (5 inhabitants 750 l/d)

Parameter	%	mg/l
COD (chemical oxygen demand)	94,2 %	43
BOD ₅ (biochemical oxygen demand)	98,0 %	7
SS (suspended solids)	96,3 %	14
NH ₄ -N	98,3 %	0.5
N _{total}	87,0 %	7.9

Results of practical testing undertaken by the Prüfinstitut für Abwassertechnik (Testing Institute for Wastewater Technology), Aachen

- Standard equipment
- Available as options
- not available



Graf UK will arrange **FREE** commissioning of your system by a Graf accredited service provider who will register your system to activate your warranty. For more information go to <https://bit.ly/GRAFFreeCommission> or scan the QR code.



For general enquiries go to <https://bit.ly/grafuksts> or scan the QR code.

PERFORMANCE RESULTS

Otto Graf GmbH

Carl-Zeiss-Str. 2 - 6, 79331 Teningen, Germany

EN 12566-3

Small wastewater treatment systems for up to 50 PT

Small wastewater treatment system one2clean

SBR plant in one two-zone polypropylene tank

Test report PIA2014-216B14.01.e

Nominal organic daily load*	0.27	kg/d		
Nominal hydraulic daily load	0.75	m ³ /d		
Material	polypropylene			
Treatment efficiency (nominal sequences)			Efficiency	Effluent
	COD		94.2 %	43 mg/l
	BOD ₅		98.0 %	7 mg/l
	SS		96.3 %	14 mg/l
	NH ₄ -N**		98.3 %	0.5 mg/l
	N _{tot} **		87.0 %	7.9 mg/l
	P _{tot}		80.2 %	1.6 mg/l
Electrical consumption	0.63	kWh/d		
*at a test influent of ≥ 300 mg/l BOD ₅ (mean)				
**determined for temperatures $\geq 12^{\circ}\text{C}$ in the bioreactor				

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH

(PIA GmbH)

Hergenrather Weg 30

52074 Aachen, Germany

This document replaces neither the declaration
 of performance nor the CE marking.



Notified Body
 No.: 1739



Certified according to
 ISO 9001:2008



Deutsche
 Akkreditierungsstelle
 D-PL-17712-01-00

Prüfinstitut für Abwassertechnik GmbH

geprüft - tested - teste

Elmar Lancé

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