

# **Wastewater Treatment Solutions**

#### **WASTEWATER TREATMENT SYSTEMS & SEPTIC TANKS**



## **Welcome to Graf UK**

By Matthew Rolph, Managing Director, Graf UK



For more than 50 years, the GRAF brand has represented high-quality plastic products. Our Carat wastewater tanks represent the state of the art. Our long-standing partner KLARO, which joined our group of companies in 2014, has grown over the last 10 years to become the European market leader in small SBR treatment systems with airlift technology. Our small wastewater treatment systems are already being used by 240,000 satisfied customers. When you buy a GRAF wastewater treatment system, you benefit from the experience gained from more than 300,000 satisfied wastewater customers and the quality of two established brands in local wastewater disposal.

#### **Quality comes first**

GRAF uses state-of-the-art production facilities. This is the only way to guarantee superlative quality at attractive prices. A high standard of quality in production is an essential foundation for unique products. End-to-end quality assurance and a high level of automation guarantee maximum reliability in production. GRAF broke into new ground by using injection embossing to make the Carat wastewater tank. To manufacture this tank, GRAF commissioned the development and construction of the world's largest injection moulding machine.

World's largest injection moulding machine



Blow moulding



Rotational moulding

## How to choose a wastewater treatment system

#### Wastewater solutions for:

e.g. domestic properties



#### Wastewater solutions for:

e.g. villages, office buildings, campsites, hotels



#### Wastewater solutions for:

e.g. holiday homes



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## The Benefits of injection moulding systems

#### Plastic - clear advantages

Because of their low weight, plastic tanks can be installed without heavy equipment. This means that they can be easily transported and installed in locations that are difficult to access. Plastic tanks, have smooth inner surfaces that will not corrode.

#### Sustainability starts with production

GRAF products help to protect the environment, so it goes without saying that they are also manufactured in an environmentally friendly way. Injection-moulding a plastic part usually requires up to 2.7 kilowatt

hours of electricity per kilogram of plastic. GRAF needs just 0.38 to 0.5 kilowatt hours.

The injection moulding process therefore consumes up to 85% less energy than normal.

The heat generated during manufacturing is processed by a modern heat recovery system and is used to heat the production and logistics buildings.

Right from the product development stage, GRAF attaches great importance to durable design. Our decades of experience combined with modern production techniques guarantee that our plastic tanks last for over 50 years. GRAF offers a warranty of up to 25 years for its wastewater tanks. A 2 year warranty is offered for SBR technology. The efficiency of our wastewater treatment systems is regularly monitored by independent institutes.

All products manufactured by GRAF are

also 100% recyclable.

**Durable products: reliable investment** 

## **Benefits of the Carat system**

The only wastewater underground tank of it's kind!

#### **Unique manufacturing process**

The GRAF Carat underground tank is unlike any other underground tank in the world. It is the largest tank of its kind to be manufactured by injection compression moulding. This technique provides the tank with unbeatable stability and ensures that each component is produced with the highest of accuracy.

Unlike other underground tanks, the wall thickness is equal in all areas of the tank.

The production tolerances are kept to a minimum, resulting in a product of the highest quality, which is strong, accurate, reliable and extremely user friendly.

To manufacture the Carat range, one of the worlds largest injection moulding systems had to be developed.





#### The tank that turns it head for you

The GRAF Carat underground tank has a rotating tank dome. The tank dome can be aligned with the connections independently of the tank - this makes installation much easier! All installation pipes are connected using the five standard lip seals. The Carat telescopic dome shaft connects the system to the ground surface. The height of the tank can be smoothly adjusted to suit the local conditions and it can be tilted by 5°. The whole system is flush with ground level.



#### Flush with ground level

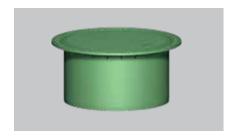
The Carat underground tank has numerous seals to efficiently stop dirt getting into the tank. This means that groundwater cannot get into the tank and, thus, dirt particles cannot contaminate the wastewater. The seals are in the intersection between the tank and the tank dome and between the tank dome and the telescopic dome shaft. All supply pipes connected to the tank dome are also sealed with five lip seals as standard.



#### Ribbed tank base

The tank base of the Carat underground tank is extremely stable thanks to the numerous ribs. These enable the Carat to be installed in groundwater up to the middle of the tank. Furthermore, the stable base means the tank is very robust for transportation to site. The tank base has already proven its excellent rigidity in numerous computer simulations during the development process. Please follow our installation instructions for this purpose (can also be downloaded at www.grafuk.co.uk).







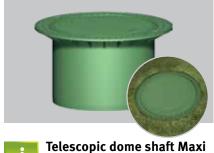
#### Telescopic dome shaft Mini

- With PE cover
- Suitable for pedestrian loading
- Weight 9kg
- Adjustable earth covering across upper tank surface

plus 140mm - 340mm earth covering Order no. 371010



Tank dome Mini





- With PE cover
- Suitable for pedestrian loading
- Weight 15kg
- Adjustable earth covering across upper tank surface

plus 140mm - 440mm earth covering Order no. 371011



Tank dome Maxi





Telescopic dome shaft cast iron

- Suitable for vehicle loading with childproof cast iron cover up to 3.5t
- Weight 55kg
- Adjustable earth covering across upper tank surface

plus 140mm - 440mm earth covering Order no. 371020



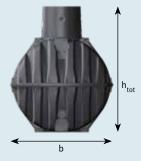
**Tank dome Micro** 

#### **Dimensions**

Volume [l]	Width b [mm]	Length l [mm]	Height h [mm]	Height htot [mm]	Height of tank dome ht [mm]	Inner $\emptyset$ of tank dome [mm]	Weight [kg]	Order no.
2,700	1565	2080	1400	2010	610	650 – 800	120	372028
(700 US gal.)	(61.6")	(81.9")	(55.1")	(79.1")	(24.0")	(25.6 – 31.5")	(265 lbs.)	
3,750	1755	2280	1590	2200	610	650 – 800	150	372029
(1,000 US gal.)	(69.1")	(89.8")	(62.6")	(86.6")	(24.0")	(25.6 – 31.5")	(331 lbs.)	
4,800	1985	2280	1820	2430	610	650 – 800	185	372030
(1,250 US gal.)	(78.2")	(89.8")	(71.6")	(95.7")	(24.0")	(25.6 – 31.5")	(408 lbs.)	
6,500	2190	2390	2100	2710	610	650 – 800	220	372031
(1,700 US gal.)	(86.2")	(94.1")	(82.7")	(106.7")	(24.0")	(25.6 – 31.5")	(485 lbs.)	

#### **Technical data**

Max. earth covering (without groundwater vehicle loading)	1200 mm (47.2")
Max. vehicle weight	Suitable for vehicle loading (3.5 t) Higher loads on request
Earth covering required for vehicle loading	800 – 1200 mm (31.5 – 47.2")
Groundwater stability	up to middle of tank
Earth covering required for groundwater stability	800 – 1000 mm (31.5 – 39.4")
Connection	DN 100 / DN 150 / DN 200 on top





## The one2clean system

The only wastewater underground tank of it's kind!



✓ 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



#### 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

GRAF

- Telescopic cover
- State-of-the-art manufacturing for maximum stability

on technology

- Suitable for vehicle loading in conjunction with telescopic vehicle dome shaft
- 100% watertight and corrosionresistant
- Can be installed in groundwater up to the middle of the tank

#### Technical data

System	one <b>2clean</b>
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	10 years
Warranty for purifying technology	2 years
Cleaning performance	7, 14, 0.5

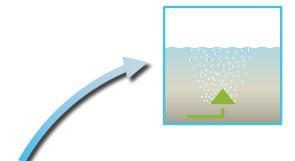
Control	
Holiday mode	Manual
+D Removal of nitrogen	•
+C Carbon infeed	0
Logbook function	•
Operation	4 keys
External control cabinet for installing control unit outdoors	0
Annual power consumption	230 kWh (5 inhabitants   750 l/d)

Parameter	%	mg/l
COD (chemical oxygen demand)	94.2%	43
BOD <sub>5</sub> (biochemical oxygen demand)	98.0%	7
SS (suspended solids)	96.3%	14
NH <sub>4</sub> -N	98.3%	0.5
N <sub>total</sub>	87.0%	7.9

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

- Standard equipment
  Available as antions
- O Available as options
- not available





#### 3. Clear water extraction

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

#### 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 microorganisms begin the biological cleaning process without delay.

# Incredibly low volume of sewage sludge

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

Conventional wastewater treatment systems



one*2clean* 





#### Minimum maintenance costs

- Simple construction
- High-quality components
- As much technology as necessary, as little technology as possible.
- · Integrated sampling point

# Minimum power consumption

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





#### 2. Settling phase

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

## one2clean only needs 3 steps to produce clear water

The wastewater treatment is carried out in one chamber in just one tank. This eliminates unnecessary pumping processes and sludge return.

#### one2clean is odourless

The entire volume of wastewater is immediately activated with oxygen using the unique one2clean technology. The final process of the one2clean produces an odourless, clear treated water for extraction to soakaway or waterway.

## one2clean already meets the needs of tomorrow

one2clean achieves sustainable discharge values with an efficiency factor of up to 99%! This offers high investment security – even if legal requirements become stricter.

#### One-tank system

Inhabitants [max.]	Max. daily flow [l/d]	Max. organic load [kg BOD5/d]	Total volume [l]	Volume [l]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
5	750	0.3	3,750	3,750	2280	1755	1880	150
7	1,050	0.42	4,800	4,800	2280	1985	2110	185
Q	1.350	0.54	6,500	6.500	2390	2190	2390	220

#### Two-tank system

Inhabitants [max.]	Max. daily flow [l/d]	Max. organic load [kg BOD5/d]	Total volume [l]	Volume [l]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
10	1,500	0.6	7,500	2 X 3,750	5160	1755	1880	300
14	2,100	0.84	9,600	2 x 4,800	5160	1985	2110	370
18	2,700	1.08	13,000	2 x 6,500	5380	2190	2390	440

## onezclean accessories

#### GRAF EPP control cabinet - Easy, flexible application

- · Easy access for maintenance
- Function checking is simple as the control unit is located immediately next to the sytem
- Ideal solution for large distances from the house (>20m)
- Flexible use of the proven GRAF EPP control cabinet in a plastic external column
- Lockable housing in sturdy, weatherresistant plastic
- Integrated double power socket for easy maintenance



GRAF Plastics external control cabinet S for EP control cabinet (size upto 7 inhabitants)



GRAF Plastics external control cabinet M for EP control cabinet (size upto 18 inhabitants)

#### **Carbonator (Carbon dosage)**

Sewage treatment plants require a constant inflow of wastewater into the tank in order for them to work correctly. The seasonal occupation of holiday homes is a challenge for wastewater treatment systems that rely on constant inflow to keep the microorganism poulation stable. Any destabilisation of the microorganisms within the system incurs extra operating costs.

The Carbonator was especially designed to keep wastewater treatment systems with seasonal inflow stable and working correctly. The additional Carbonator module automatically feeds the

systems with nutrients that keep the microorganisms alive when there is no wastewater inflow.

#### **Benefits**

- Regardless of system suitable for other treatment plants (one2clean compatible
- · Individual adjustment of dosage
- Low power consumption
- Fast installation
- Simple operation

#### **Empty pipe seal DN 100**

- Air-tight seal for empty pipe
- No insulating foam required
- · Clean, professional solution



#### Minimum power consumption

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



Only 46 kWh per person and per year!

\*Based on a 5PE One2Clean plant

## **Advanced wastewater treatment systems**



warranty on technology

- ✓ No live electrical parts in the water
- ✓ Low power consumption
- Optional automatic adjustment to living situation (underload detection)
- ✓ Optional remote monitoring
- ✓ High-quality components mean low maintenance costs





- Extremely low noise thanks to EPP housing and very quiet air compressor
- Battery-free power failure detection
- · Very easy installation
- Interchangeable plug-in components



### High-tech installation kit

- Integrated self-cleaning sampling container
- Each lifter manufactured as a single piece.
   No connectors or screws necessary
- Colour-coded and pre-assembled
- Special lifter design prevents sludge from leaking in
- Lifters easy to remove for maintenance without the use of tools

### 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 up to the middle of the tank

#### **Technical data**

System	Advanced WWT Systems
System conformity	EN 12566-3
Purifying technology	fully biological SBR lifting technology
One-tank systems available up to	9 inhabitants   1,350 l/d
Maintenance interval	1-2 per year
Warranty for underground tank	10 years
Warranty for purifying technology	2 years
Cleaning performance	7, 14, 0.5 (5-18PE) / 12, 20, 12 (22-50PE)

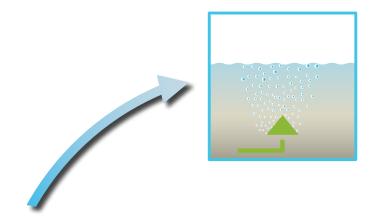
Control	KL24plus (+K)
Holiday / economy mode (underload detection)	Automatic
Back pressure monitoring	•
+R Remote transmission (GSM modem)	0
+P Phosphate removal	0
+C Carbon infeed	0
+H Hygiene package (Disinfection)	0
+D Removal of nitrogen	0
Control power failure recognition	•
Temperature sensor to protect against overheating	•
Logbook function	•
Operation	14 keys
Serial interface for software updates	•
External control cabinet for installing control unit outdoors	0

Parameter	%	mg/l
COD (chemical oxygen demand)	94.2/91.9%	43/51
BOD <sub>5</sub> (biochemical oxygen demand)	98.0/95.9%	7/12
SS (suspended solids)	96.3/94.4%	14/20
NH <sub>4</sub> -N	98.3/65.4%	0.5/12
N <sub>total</sub>	87.0/57.1%	7.9

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

- Standard equipment
- Available as optionsnot available

## **Advanced wastewater treatment systems**



#### 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 microorganisms begin the biological cleaning process without delay.



#### 3. Clear water extraction

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







### 2. Settling phase

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



Sludge activation systems

Fixed bed systems

#### Minimal power consumption per inhabitant<sup>1)</sup>

1)The diagram indicates the annual power consumption of various wastewater treatment systems. Source: "wwt", edition 6/2007 "The wastewater treatment system as a permanent solution", page 15, table 3, practical data; One2Clean: test report by PIA (Prüfinstitut für Abwassertechnik GmbH, Testing Institute for Wastewater Technology), Aachen, test number PIA2014-216B14.01.e





## Advanced wastewater treatment one-tank systems

Inhabitants [max.]	Max. daily flow [l/d]	Max. organic load [kg BOD5/d]	Total volume [l]	Volume [l]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
5	750	0.3	3,750	3,750	2280	1755	1880	150
7	1,050	0.42	4,800	4,800	2280	1985	2110	185
Q	1,350	0.54	6.500	6.500	2390	2190	2390	220

## Advanced wastewater treatment multitank system

Inhabitants [max.]	Max. daily flow [l/d]	Max. organic load [kg BOD5/d]	Total volume [l]	Volume [l]	Length* [mm]	Width* [mm]	Height [mm]	Weight [kg]
10	1,500	0.6	7,500	2 X 3,750	5160	1755	1880	300
14	2,100	0.84	9,600	2 x 4,800	5160	1985	2110	370
18	2,700	1.08	13,000	2 x 6,500	5380	2190	2390	440
22	3,300	1.68	9.600	2 X 4,800	5160	1985	2250-2450	440
28	4,200	1.92	13,000	2 x 6,500	5380	2190	2530-2730	530
35	5,250	2.10	17,000	2 x 8,500	15500	2040	2515-2715	780
40	6,000	2.40	20,000	2X10,000	15500	2240	2715-2915	930
50	7,500	3.00	26,000	4x 6,500	11360	2190	2850-3050	1060
60	9,000	3.60	26,000	4x 6,500	11360	2190	2850-3050	1060

# Advanced wastewater treatment system accessories

# Plastic external control cabinet M

for up to 18 inhabitants

Order no. 107773

# Plastic external control cabinet L

for up to 22-40 inhabitants





#### **Benefits**

- Easy access for maintenance
- Function checking is simple as the control unit is located immediately next to the system
- Ideal solution for large distances from the house (> 20 m)
- Flexible use of the proven GRAF EPP control cabinet in a plastic external column
- Lockable housing in sturdy, weatherresistant plastic
- Integrated double power socket for easy maintenance

## Easy, flexible application for the GRAF EPP control cabinet $\boldsymbol{\mathsf{M}}$



EPP control cabinet Part of the wastewater treatment system



GRAF Plastics external control M cabinet for EP control cabinet (size up to 18 inhabitants)







#### + Convenience package

Convenience package: control with larger display and keypad. Underload detection by a pressure sensor in the control.

Standard

#### KL24plus



- SD card slot for easy logbook transfer
- Automatic underload detection
- Suitable for phosphate precipitation and UV module
- Large display and 14 keys for comfortable operation
- Automatic logging
- Battery-free power failure detection
- High-contrast display with blue backlighting
- Durable, gas-tight membrane keypad



Accessories for small wastewater treatment systems

#### **Carbon infeed**

#### Solution for weekend homes

Removal of nitrogen

The +D package for denitrification

(removal of nitrogen) results in the

very strict requirements. The GRAF

systems thereby attain a N<sub>total</sub> value

compounds) of less than 25 mg/l.

Order no. 107520

(total parameters of inorganic nitrogen

Phosphate removal package

Phosphate in water results in a massive

build-up of algae. The GRAF +P package

ensures the safe removal of phosphate and therefore great water quality

clarified water quality satisfying

The addition of carbon as a nutrient allows the purification process to continue and prevents the biology from dying off.

On request

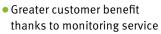
On request

#### **Remote transmission**

Remote monitoring allows error messages to be transmitted to mobile phones and operating data to be queried by text message. Convenient remote wastewater treatment system control by GSM is also possible.

- Greater efficiency
- Greater operating reliability





 Low-cost remote diagnosis in the event of a fault without the service fitter having to come on site



Order no. 107117

## Hygiene package

Disinfection using the +H package satisfies even the most stringent of purity requirements for a GRAF wastewater treatment system. Without the use of chemical substances, it reliably kills off germs and microorganisms. The clarified water therefore complies with the EU Bathing Water Directive.

On request

- Easy to operate
- Maintenance-friendly thanks to easy-to-remove module
- Fitted in downstream shaft

#### **Outlet with clear** water pump

Lift the clear water when the outlet pipe is lower than the water course.

On request



## Voltage transformer

- From 110 V 230 V
- Up to 300 W (LA 200)

Order no. 107421

#### Sampling point, internal

For two- and multitank systems

Order no. 107170

#### Empty pipe seal DN 100

- Air-tight seal for empty pipe
- No insulating foam required
- Clean, professional solution

Order no. 107613



Prevents soil moisture from rising into the external control cabinet. Required amount: 1 bag per external control cabinet for 12 - 28 inhabitants; 50 l bag Order no. 107607

#### **Odour filter**

For DN 100 ventilation openings; reliably filters out unpleasant odours; filter insert of multi-layer mesh with impregnated activated carbon

Order no. 104018

#### Filter insert

For odour filter; replace at least every two years or when odour is perceptible Order no. 104024



#### SBR hose package (Advanced)

Includes:

1 x Ø 19 mm and 3 x Ø 13 mm PVC hose; colour-coded for Advanved WWT system Length: 20 m

Order no. 107192

#### SBR hose package (One2Clean)

Includes:

 $1 \times \emptyset 19 \text{ mm}$  and  $1 \times \emptyset 13 \text{ mm}$  PVC hose; colour-coded for One2Clean system Length: 20 m

Order no. 107668

## Large advanced wastewater treatment systems

#### Special requirements

Systems for more than 50 inhabitants work on the same principle as small wastewater treatment systems and use the SBR process. Because of the special requirements involved, all systems for more than 50 inhabitants are planned as individual projects. Our experienced team of engineers and technicians will help you to plan your project. We take all local circumstances into account from the concept planning phase to implementation.







#### **Options**



The proven options of the advanced wastewater treatment systems are also available on request for large systems.









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on	wastewate
	to a lan

on technology

www.graf.info

Inhab. [max.]	Max. daily flow [l/d]	Max. organic load [kg BOD5/d]	Volume [litres]	Length [mm]	Width [mm]	Product code
75	12,250	3.60	2X 16,000	9900	2500	G50036
90	13,500	5.40	2X 22,000	12900	2500	G50038
100	15,000	7.20	2X 22.000	12900	2500	G50040
150	22,500	9.00	2X 32,000	17700	2500	G50042
200	30,000	10.80	4X 22,000	26400	2500	G50044
250	45,000	15.00	1X 52,000 2X 32,000	13300	8700	G50046
300	45,000	18.00	1X 52,000 2X 32,000	13300	8700	G50048
350	52,500	21.00	3X 22,000 2X 38,000	19900	5600	G50050
400	60,000	24.00	3X 22,000 2X 44,000	21400	5600	G50052
450/500	75,000	27.00/30.00	3x 22,000 4x 32,000	27500	5600	G50054
550/600	90,000	33.00/36.00	3x 26,000 4x 32,000	16200	11800	G50056
650/700	105,000	39.00/42.00	2x 32,000 4x 38,000	27500	5600	G50058
750/800	120,000	45.00/48.00	1x 38,000 3x 22,000 6x 28,000	26200	8700	G50060
850/900	135,000	51.00/54.00	1X 54,000 3X 22,000 6X 34,000	29100	8700	G50062
950/1000	150,000	57.00/60.00	1x 54,000 3x 22,000 6x 38,000	30500	8700	G50064

#### **External control cabinets**







XL metal external cabinet



Concrete external cabinet

#### To plan your system, we need the following information:

- How many people will use the

## **Carat Septic Tank**

Two chambers



Floating and removable material is extracted from domestic wastewater in mechanical wastewater tanks. This is purely mechanical cleaning.

#### **Benefits**

- Low weight: can also be installed in difficult local conditions without a
- Low maintenance: maintenance or cleaning work can be performed through the shafts
- Tanks can be used as rainwater harvesting systems after thorough cleaning

12566-1\* Hydraulic efficiency 99.9%

\*Refer to the installation instructions for CEcompliant Septic tanks









#### **Carat S Septic tank**

Inhabitants [max]	Total volume [l]	Capacity [l]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
4	2,700	2,700	2080	1565	2010	145
11	3,750	3,750	2280	1755	2200	175
18	4,800	4,800	2280	1985	2430	220
30	6,500	6,500	2390	2190	2710	260

One complete system consists of: Carat underground tank with baffle. Also available without baffle as a one-chamber wastewater tank.

## **Anaerobix – Wastewater Treatment System** with Biological Filter

#### Simple and low-cost

- Anaerobix is the new low-cost anaerobic filter system for wastewater tanks in Graf tanks
- Filled with the carrier material supplied, it increases the cleaning performance of a wastewater tank several times over. The large surface of the recyclable plastic carrier material (141  $m^2/m^3$ ) allows the biofilm responsible for the cleaning process to cover a large area.

#### The benefits of the Anaerobix system at a glance

- Very good cleaning performance: efficiency over 90%, PIA-certified (Testing Institute for Waste Water Technology)
- No power consumed, no electrical or mechanical components (e.g. pumps or float switch) in tank
- Largely maintenance-free
- Installation in proven Graftanks
- Easy to install with standard DN 100
- Very good value for money









#### **Technical data**

System	Anaerobix
Purifying technology	Anaerobic system
One-tank systems available up to	3 <b>,</b> 750 l/d
Maintenance interval	1–2 per year
Warranty for underground tank	10 years

#### Anaerobix single-tank system

Tank volume	2,700 litres	3,750 litres	4,800 litres	6,500 litres
Max. daily flow [l]	1,200	2,250	2,850	3,750



Limit values	
BOD <sub>5</sub> (biochemical oxygen demand)	75%
SS (suspended solids)	90%



#### Warranty clause:

The warranty mentioned in this brochure only refers to the tank in question and not to the accessories. Within the warranty period we grant free replacement of the material. Further benefits are excluded. Pre-condition for warranty benefits are proper handling, assembly and installation according to the mounting guidelines.

N.B. Protect tanks from frost when installed above ground! In case of groundwater installation, please contact us for further information prior to purchase!

For all indications of measurements in this brochure we reserve a tolerance of +/- 3%. The useage volume of the tanks may be up to 10% lower than the tank Volume, depending on the connecting option.

Technical modifications and further development of the various products are subject to change. Errors excepted.



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