

FLUIDO®

Fully Biological Sewage Treatment Plant

according to EN 12566-3

Packaged Sewage Solutions with a Future (4 - 300 PT)



We clear it for you.

REWATEC – Top Quality from Germany

A sewage treatment plant is built only once in a lifetime...

Why PE is convincing

REWATEC-sewage tanks are made exclusively from own production. Material of choice is PE (polyethylene), the tanks are seamless, rotationally moulded and free of tension.

Result: An unsurpassed robustness and durability, with lasting protection against breakage or cracking.

One problem less: REWATEC containers are 100% sealed, even after decades.

Sewage tanks MONOLITH & BlackLine

- As PE-complete plants for 2 - 300 inhabitants
- Tested according to EN 12566-3
- 15 - 20 years warranty
- 100 % sewage resistant
- Compact and lightweight
- Easy installation, even in high groundwater levels



Make it easy for yourself

REWATEC small sewage treatment plants are lightweight, extremely compact and have a low installation depth. The technology is extremely friendly to install, because almost everything is pre-assembled.

Installation example of a small treatment plant for 6 inhabitants



Superior Solutions – consistently simple

Play it safe

A sewage treatment plant is a long-term investment, so it should also be suitable for future needs. Changes in utilisation can occur over the years, such as population changes. A REWATEC small sewage treatment plant is flexible, it can grow, and you are on the safe side.

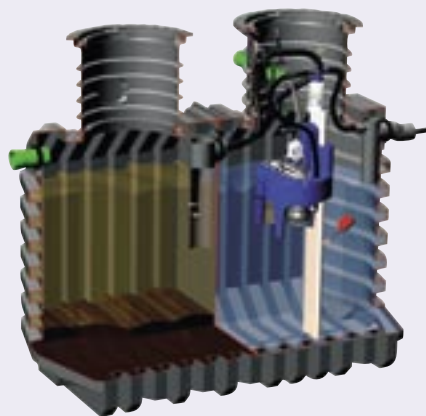
Did you know?

In the sewage technology Germany is a worldwide leader. Wherever high reliability and best water quality is required, German technology comes first. REWATEC small sewage treatment plants are successfully used all across Europe and are market leaders in sewage treatment.



SBR-sewage system FLUIDO II

- As a complete plant
- Tested according to EN 12566-3
- Future-oriented and reliable SBR-technology
- Only 8,- to 15,- € electricity consumption per inhabitant per year
- Easy removal for maintenance
- Simply adapted with changes in number of inhabitants



easy + compact solution, simple to install!



Spare your property and your purse

The complete installation with setup takes only a day. Because no heavy machinery is required for the installation your property is not damaged needlessly. So you avoid unnecessary trouble and save costs!

Sewage treatment plants according to EN 12566-3

You have no connection to a mains sewer?

You are in good company, because this happens to 85 million people in Europe.

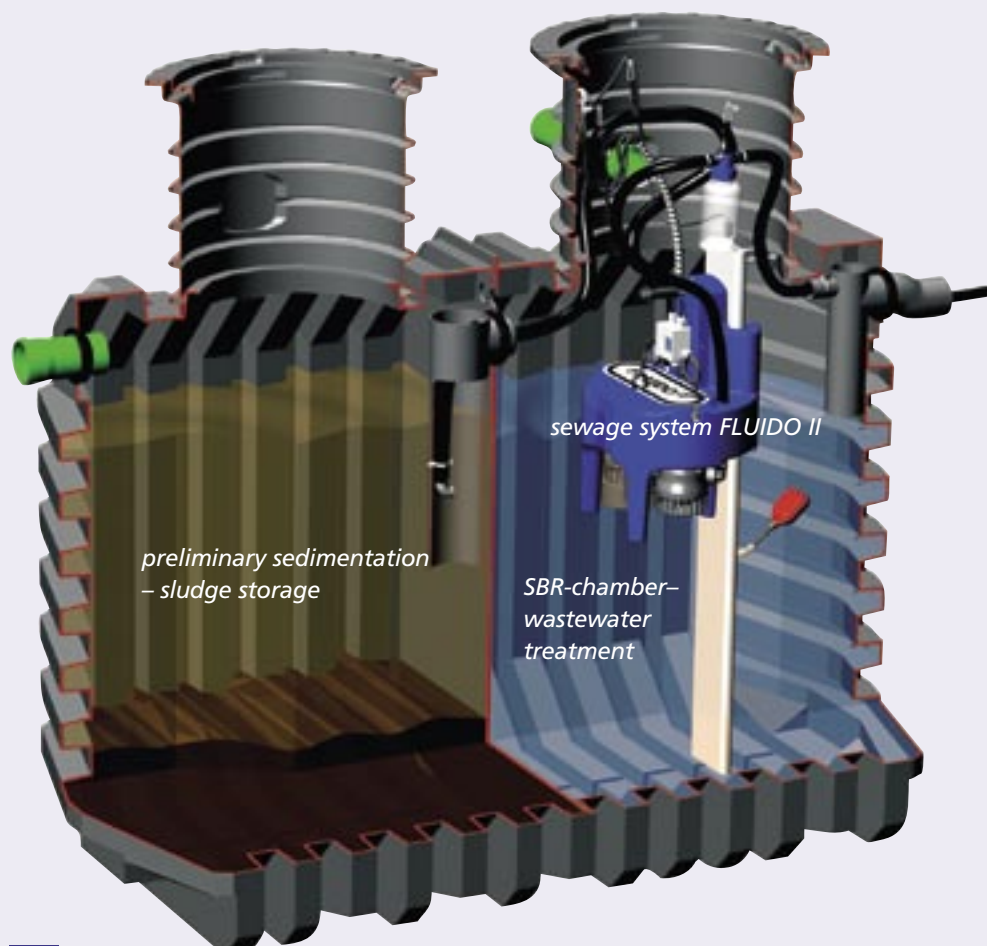
Actually, you can count yourselves lucky, because today an individual sewage disposal is often less expensive than a mains connection, especially in rural areas. In view of a good price-performance ratio, long life, as well as favourable assembly costs and operating expenses you can find an ideal solution for your property.



25 years container guarantee



CE tested safety according to the valid principals of the EU



Activated sludge – mixed



Activated sludge – settled



Clearwater



- A safe solution



For your safety: Extreme load tests are an important component of the quality assurance.

Test results sewage tank MONOfuido according to EN 12566-3

The test of the stability according to EN 12566-3 proved the following: The container carried a max. load of more than 13 tons (corresponds 1.95 m covering soil) trouble-free. No breaks, cracks nor distortions appeared.

Your advantages – sewage tank MONOfuido:

- extremely stable containers, also for installation in ground water, public thoroughfares and difficult ground conditions
- permanently leak-proof, and 100% resistant to sewage (20-year guarantee)
- ecologically friendly made from pure recyclable polyethylene (PE)

Test results on the FLUIDO according to EN 12566-3

For the whole testing period (according to EN 12566-3) of 38 weeks, the sewage treatment plant FLUIDO were tested by the test institute PIA Aachen (EU-notified body) for the following:

- no electric or technical disturbances
- no noise or odour nuisances
- good biological purification, also with different load situations:

Your advantages – process engineering FLUIDO:

- safe and highly efficient sewage technology with low volume required (only 750 l / person necessary)
- no complex blockage filters or soakaway systems necessary
- low power consumption (only 0.15 - 0.20 kWh / person daily)

Parameter	Requests	EN 12566-3 - achieved discharge values	EN 12566-3 - purification rate in %
COD	90 mg/l	58,5 mg/l	90,1 %
BOD ₅	20 mg/l	8,8 mg/l	96,1 %
NH ₄ -N	10 mg/l	4,4 mg/l	88,5 %

SBR-sewage treatment plant FLUIDO

Today sewage systems SBR with submerged aerators are the most-used fully biological sewage technologies throughout Europe. As a pre-assembled complete system of REWATEC, the sewage tanks MONOfuido are very easy to install. They are extremely compact, have a low installation depth and an easy to use technology.

And this is how it works:

The wastewater stored in the pre-treatment container ① is fed intermittently (in batches) into the SBR-chamber ②. The cleansing cycle always lasts eight hours. During this time the FLUIDO ③ brings in oxygen by a submerged aerator and allows the growth of micro-organisms which clean the sewage.

At the end of a cycle in the upper part of the chamber you will have an area of cleaned water, which can be pumped into the soakaway area or ditch. Meanwhile a new amount of sewage has accumulated in the pre-treatment section and after eight hours, a new cycle begins.

Your advantages:

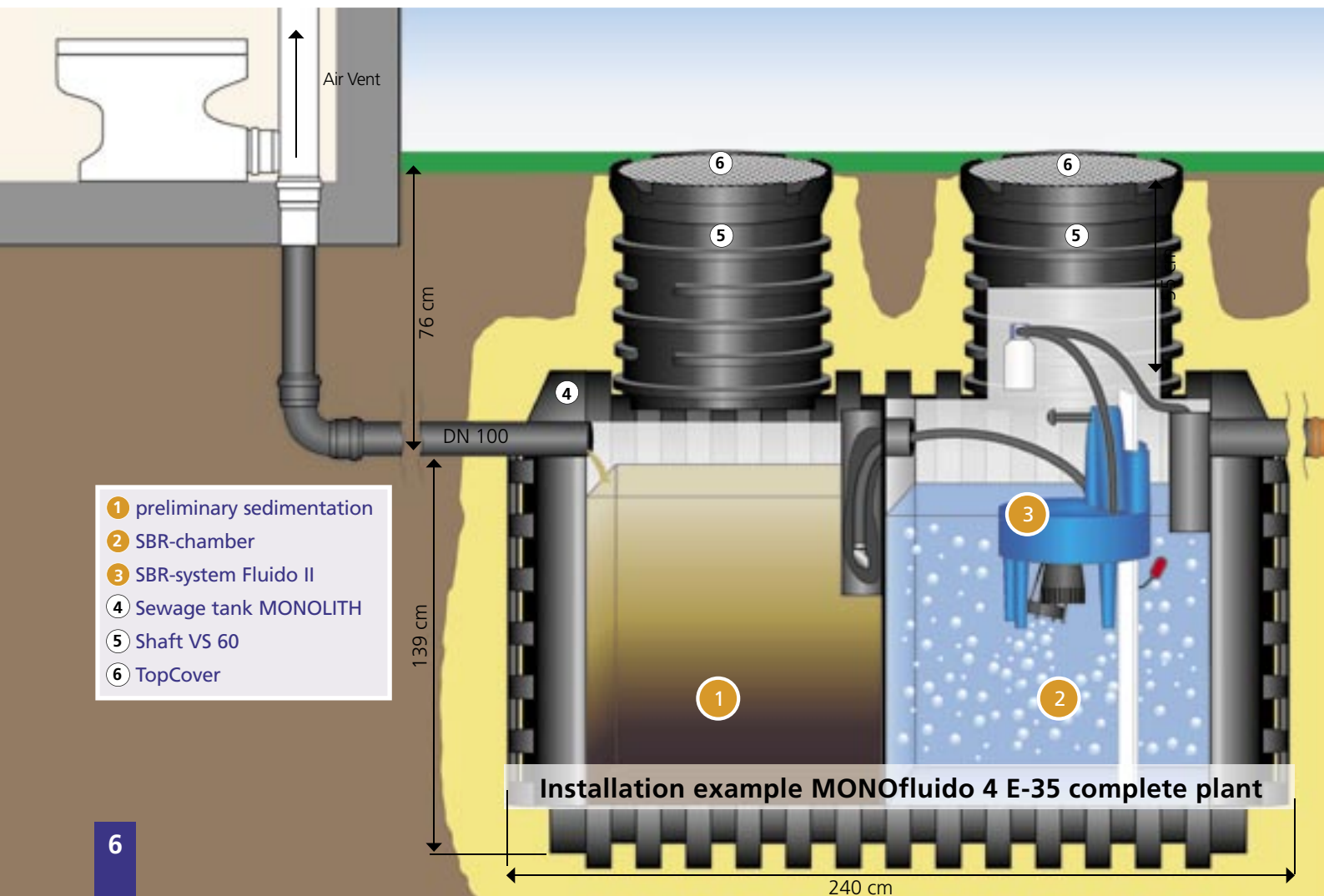
- no blockage dangers, simple access for maintenance
- floating sewage system SBR, easily adaptable for changes in the number of inhabitants
- High quality, according to European standards and safety standards, certified pumps and control technology



25 years container guarantee



CE tested safety according to the valid principals of the EU



SBR-small sewage treatment plants FLUIDO

Scope of delivery for complete plants



1 (-4) x sewage tank (for single tank systems there is a dividing wall in the container)

2 (-4) x Shaft extension VS60

2 (-4) x TopCovers (PE-covers, walkable)

1 (-4) x Sewage-system FLUIDO II (complete with 15 m cable, control unit F-Control basic)

Number of Inhabitants	REWATEC FLUIDO Type	Volume	Tank measurements without shaft (length x width x height)	Container Configuration	Order-No.
2 - 3 (4)	4 E-35 one container plant	1 x 3500 l	208 x 120 x 160 cm		KBKM3511
4 - 6	6 E-50 one container plant	1 x 5000 l	320 x 120 x 160 cm		KBKM5011
2 - 4	4 E-15/15 two container plant	2 x 1500 l	128 x 120 x 160 cm		KBKM1515
6 - 8	8 E-30/30 two container plant	2 x 3000 l	2 x (208 x 120 x 160 cm)		KBKM3030
8 - 12	12 E-50/50 two container plant	2 x 5000 l	2 x (320 x 120 x 160 cm)		KBKM5050
10 - 16	16 E-60/60 two container plant	2 x 6000 l	2 x (246 x 208 x 230 cm)		KBKB6060(N*)
12 - 20	20 E-75/75 two container plant	2 x 7500 l	2 x (296 x 208 x 230 cm)		KBKB7575(N*)
14 - 26	26 E-90/90 two container plant	2 x 9000 l	2 x (344 x 206 x 230 cm)		KBKB9090(N*)
14 - 28	28 E-75/75+75 three container plant	3 x 7500 l	3 x (296 x 208 x 230 cm)		KBKB7775(N*)
18 - 36	36 E-90/90+90 three container plant	3 x 9000 l	3 x (344 x 206 x 230 cm)		KBKB9990(N*)
16 - 42	42 E-75/75 + 75/75 four container plant	4 x 7500 l	4 x (296 x 208 x 230 cm)		KBKB7777(N*)
20 - 50	50 E-90/90 + 90/90 four container plant	4 x 9000 l	4 x (344 x 206 x 230 cm)		KBKB9999(N*)

* N stands for NH₄-N – ammonia degradation (obligatory in the UK)

Accessory for all SBR-small sewage treatment plants FLUIDO

Extra charge 30 m cable length (ex works)

KKZT0030

SBR-Main Sewage Treatment

The fully biological process for retrofitting

Would you like to convert your existing 3 chamber container or collection container into a fully biological small sewage treatment plant? No problem, by using the main sewage tank MONOfluido you will avoid large costs and disturbances and convert your existing septic tank into a fully biological system.

You don't need more for a small sewage treatment plant for up to 5 inhabitants!

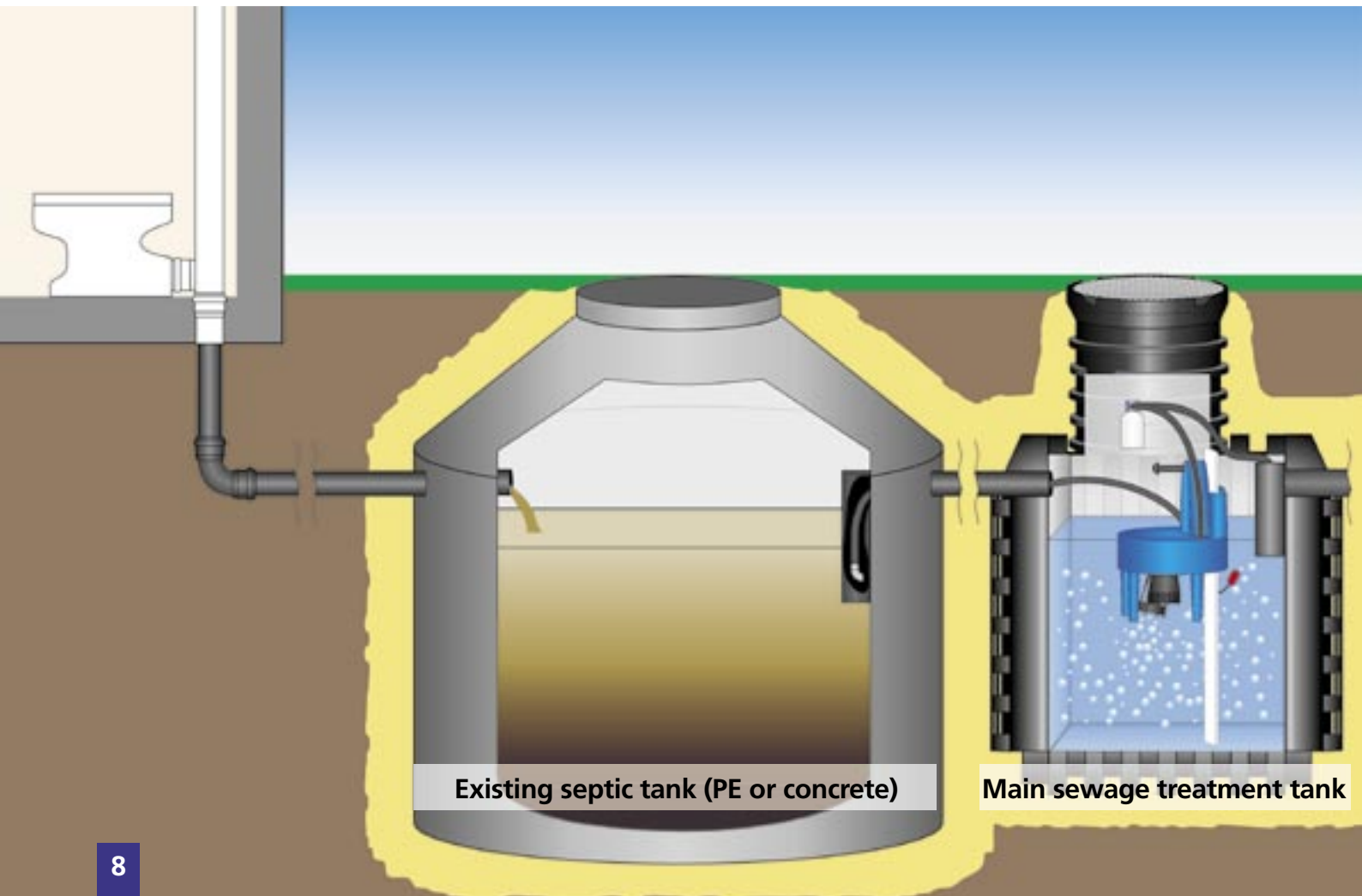


Advantages:

- Sewage treatment plant instead of septic tank - simple installation and reduced removal costs
- Compact unit with fully biological SBR-sewage technology
- 25 years warranty on tanks, 3 years warranty on SBR-technology



25 years container guarantee



SBR-Main Sewage Treatment

Scope of delivery SBR-sewage treatment system FLUIDO:

1 x main sewage treatment container , 1 x shaft VS60,
1 x TopCover, 1 x sewage system FLUIDO II (complete with
15 m cable, control unit F-Control basic)

Number of Inhabitants	REWATEC FLUIDO Type	Volume	Tank measurements without shaft (length x width x height)	Order-No.
4 - 6	6 E-15	1500 l	128 x 120 x 160 cm	KBKM0015
6 - 8	8 E-20	2000 l	160 x 120 x 160 cm	KBKM0020
8 - 12	12 E-30	3000 l	208 x 120 x 160 cm	KBKM0030
12 - 14	14 E-35	3500 l	240 x 120 x 160 cm	KBKM0035(N*)
14 - 20	20 E-50	5000 l	320 x 120 x 160 cm	KBKM0050(N*)
20 - 24	24 E-60	6000 l	246 x 208 x 230 cm	KBKB0060(N*)
24 - 30	30 E-75	7500 l	296 x 208 x 230 cm	KBKB0075(N*)
30 - 38	38 E-90	9000 l	344 x 206 x 230 cm	KBKB0090(N*)

* N stands for NH₄-N – ammonia degradation (obligatory in the UK)

Recommended Accessories

Installation Set for collection container (3.5m feeding hose with dip pipe)	KKZT0016
Installation Set for multi chamber containers (3.5m feeding hose with feeding pipe)	KKZT0012
30 m cable length for FLUIDO (ex works)	KKZT0030

Accessories (for all FLUIDO-plants)

Shaft extensions

Shaft extension VS 60: length 63.5 cm, Ø 60 cm

Order-No. KKDS0060

Shaft extension VS 20: length 25 cm, Ø 60 cm

Order-No. KKDS0020

Spacer ring: length 60 cm, Ø 60 cm

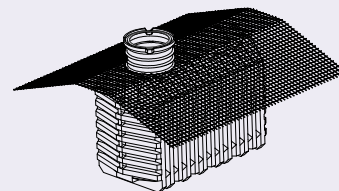
Order-No. KKDS0065



Upthrust Security

Grid web for tanks up to 5,000 litres

Order-No. KKZT2501



Seals for Shaft Extensions VS 60 / VS 20

Rubber DN 600

Order-No. KKDS0070



All REWATEC-Tanks can be installed even for vehicle transit, BlackLine-Tanks fo a max. weight of 2,2 t per axle, the MONOLITH-Tanks for a max. weight of 8 t per axle. Please ask for our accessories.

Sewage treatment plants for 51 to 300 inhabitants

The advantages of small sewage treatment plants from PE are now also available for larger plants. The series FLUIDO XL is ideal for community facilities, restaurants or trade and will vary according to individual needs. The modular construction and the ABP concept permit the optimum balance of accruing fluctuations, as for example at seasonal operation. This flexibility is important for good outflow values even under difficult conditions.

The completely pre-manufactured system from high-quality PE containers resistant to sewage and the sewage system SBR FLUIDO XL sets new standards:

It allows efficient, low-cost installations with a guarantee of quality - with this system installation problems belong to the past.

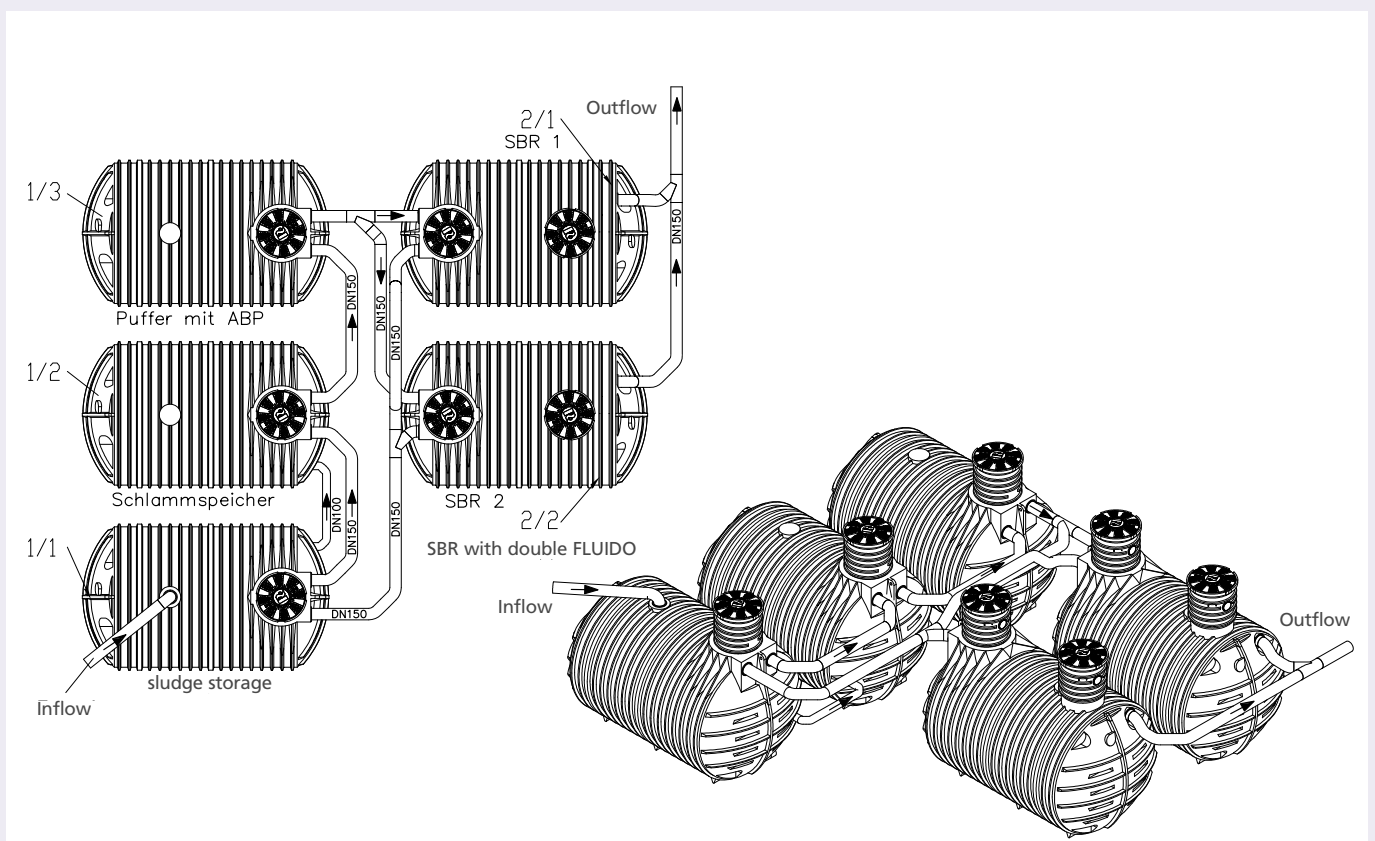
FLUIDO XL - a real professional solution with a future.

Advantages:

- flexible professional solutions for up to 300 inhabitants
- ideal for community facilities or hotel and restaurant industry
- individually adjustable for seasonal operation
- no installation problems, the complete system assures security for planning to completion



Drawing of sewage treatment plant FLUIDO XL for 100 inhabitants (5 x 9000 litre BlackLine containers)



Modular complete systems from PE

Example of a restaurant with 100 inhabitants

Project: Hunter's Lodge Inn, South England • Construction time: 3 days

1. Survey of the basic data:

- restaurant with seasonal variations:
100 – 250 meals / day + employees
- outflow quality: COD < 90 mg/l, BOD₅ < 20 mg/l,
NH₄-N < 10 mg/l

2. Dimensioning:

Definition of the necessary plant capacity:

- organic load (BSB5): max. 6,0 kg/d
- hydraulic load: max. 17,5 m³/d, max. 2,5 m³/h

3. Conception:

- A 5 container plant on the basis of the container type
BlackLine 9,000 litres (see on the bottom left)
- Creation of a placing of tanks, cable and piping plan

4. Realisation:

- excavation and assembly within three days of delivery
- no concrete necessarily for the installation of the
containers
- no waiting times for the backfill materials to set
- quick and failsafe installation by pre-mounted containers
and plug and play plant technology.

Installation example of sewage treatment plant FLUIDO XL for 100 inhabitants (5 x 9000 litre BlackLine containers)



FLUIDO®

Fully Biological Sewage Treatment Plant according to EN 12566-3

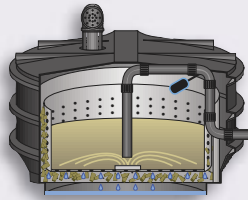
Other Quality Products

Sludge-composting-system SCS

Sludge disposal is one of the main factors of the operating expenses of a small sewage treatment plant, and the trend is growing strongly. Result: Costs for the removal of sludge is increasing.

Our REWATEC-plants can be equipped with the patented sludge-composting-system (SCS).

- Efficient: From 450 l sludge 20 litres can be hygienically converted into pure compost
- No more costs for the removal of the sewage sludge
- No odour nuisance thanks to special a procedure and bio-air filter
- Very compact as an overall system because it needs 1/3 less volume



SBR-sewage system FLUIDO II for the retro-fitting

- Tested according to EN 12566-3
- For the retro-fitting of existing septic tanks to fully-biological standards
- Simple installation – without expensive installations or compressed air pipes
- Easy removal for maintenance



Clearwater seepage KLAR-BOX

- Light and low installation depth
- Installation in the ground without the need of gravel
- Maximum safety though three times more porous



Collection containers

The ideal solution for all properties without mains connections, on with only little or irregular sewage incurred.

- PE-container 100 % sewage resistant
- For every property and every need
- Light, simple installation



Rainwater Management

- Save precious drinking water and save resources
- The most modern systems for the garden watering and domestic supply (toilet and washing machine)
- Unique connection and hose solutions for easy rainwater collection
- Tank concepts with the easiest installation solutions

Guarantee

The correct installation is the basis for the long life span of your system and for the 25 years of manufacturer's guarantee. This guarantee for sewage tanks relates exclusively to the tank and does not cover individual parts and accessories, although these might be included in the price package. The installation of the tank as per installation instructions is the premise for this guarantee. In the case of our acceptance of a fault, we will provide material exchange free of charge - any other services or costs will not be re-imbursed. Excluded from guarantee are damages that are caused by abnormal usage or interference, or caused by faulty installation or maintenance procedures.

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We clear it for you.