the tank system

longlife warranty

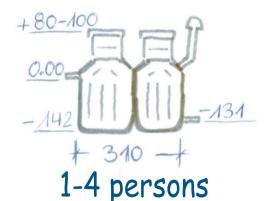
15 years on tanks (under proper use)

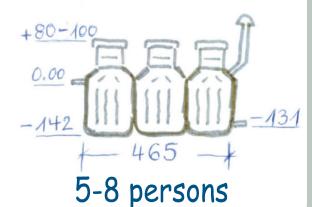




Clearfox nature is installed in aquaplast polyethylen tanks which are well known for high quality on market: info: www.aquaplast.de

modulesystem size





some benefits







easy handling (max.125 kg)
universal extensions
long life time
special reinforcements

tests & certs

stability: vertical load: PIA2007-BT-010

(PIT) horizontal load: PIA2010 PIT1003 ST-100

water-resistance: PIA2007-WD001

hydraulic efficiency: PIA2007-HW-002

material: durability polyethylene acc. EN 12566-3 An.

production: quality assurance system ISO 9001-9008

PPU Umwelttechnik GmbH

PPU was founded in year 2007 especially for developing small waste water treatment plants. (SWWTP).

Our staff has experience for more than 15 years in waste water treatment, more than 18.000 plants have been built in this time in sizes from 2-5000 persons.

Our technical team provides resellers and our licencees with: training for maintentance, operation, installation ...- we are just partner for all questions about waste water treatment.

As we are members in the leading German water associations we always keep up to date and offer the state of art.



Next to the mass business of SWWTP we offer standard-solutions for **industrial water treatment** (especially for foodindustry) from the first laboraty analysis, via piloting systems, designing the complete range in order to get an economic solution and a satisfied customer.

In this way over "product" ClearFox nature you will get access to a big pot of experience and service. Join us!

contact:

PPU Umwelttechnik GmbH
Bernecker Strasse 73
95448 Bayreuth / Germany
TEL: +49 (0)921-150639-90 FAX-99
eMail: info@ppu-umwelttechnik.de
web (company): www.ppu-umwelttechnik.de
web (product): www.clearfox.de
web (tank): www.aquaplast.de

reseller:







not enough gravity

for electroless operation an energy module (Solarpower) with mini-pump -to lift the water is available. Alternatively can be used a 220 V mini-pump.

For a

fast start up

the carrier elements can be enriched with enzymes.

For using the effluent as process water or reuse a

hygienic module

can be connected after the

If you want

avoid sludge disposal

a textile screen (filter bag) is inserted in the prechamber in order to compost the filtrated

You have a

need for anything? Please ask us!

Clear Fox nature is a prefabricated small sewage treatment plant, according to Euro standard 12566-3, which is manufactured in a range of size from 1-8 persons (p.e). The treated effluent water can be charged into a percolation area/underground soakaway, in watercourses or even returned back to reuse this water after a treatment. If there is enough gravity, the system can operate without any electricity.

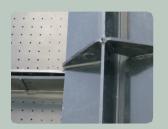
The cleaning process happens in three stages. The raw sewage water enters the primary treatment. The primary sludge settles and is reduced by digestion undisturbed in

the absence of air volume. At the end of the pretreatment, the hydraulic flow is reduced, the hydraulic peaks are buffered and balanced out over the day. The mechanical treated effluent is then constantly passed over the day in the following bioreactor. The bioreactor consists of a system of aeration and carrier elements that are arranged in a defined order in layers one above the other.

To distribute the water on the upper surface of the bioreactor there is an equipment, consisting of a tip and a distribution base.



The system of filling material, with his loading facility is in balance with the degradation, biomass distribution and rinsing. Therefore, the filling elements must not be cleaned or replaced as in biofilters, the usage is - by proper operation- for lifetime totally without any changes. The simple structure and the used biofilm technolog makes this system ideal for decentralized structures. Main features are a very stable operation (underload, overload no problem). and enormous cost savings in the long run, because of less disposal costs and no use of moving parts!



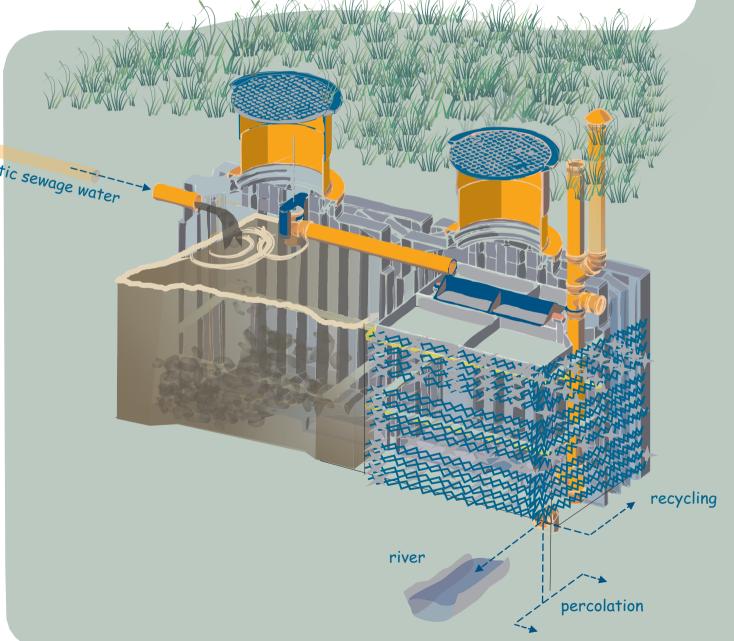
new technology

The effluent from the pretreatment fills the tip, which drains the water (with a flush) onto the distribution base. The sewage spilled into the underlying system of filling elements and passes it from the top to the bottom. On the carrier elements settle bacteria, who clean the water. By means of the so-called cascaded plug flow the water is purified in one single pass completely. Parallel to this the increasing secondary sludge is reduced in volume and biological degreed. The rest volume is discharged with the effluent, the concentration is still below the legal requirements. This technology is the first time applied in a small sewage treatmentplant. Due to this there is no additional clarifyer necessary such as in a conventional biofilm system.



domestic homes weekend resorts touristic branche caravan parks







cost safing & natural

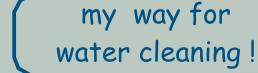
- no electricity
- less maintenance
- less sludge removal

innovative & long living

- effluent quality for future
- sludge treatment
- no replacement of materials

just simple & safe

- overload/underload no problem
- plug & play
- no moving parts







The development of this system is exceptionally supported as an "eligibile, innovative, new technology" by the

BAVARIAN MINISTRY OF AFFAIRS, INFRASTRUCTURE, TRAFFIC AND TECHNOLOGY