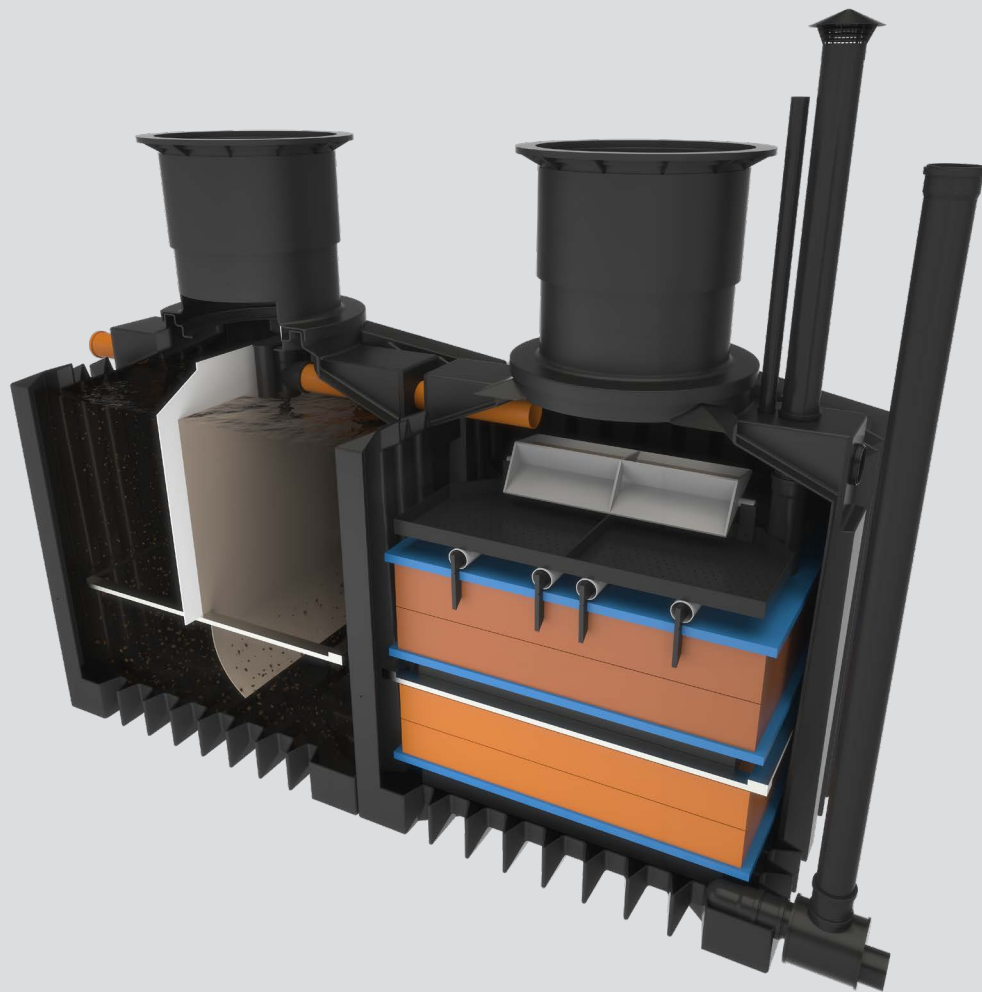


ClearFox® Nature

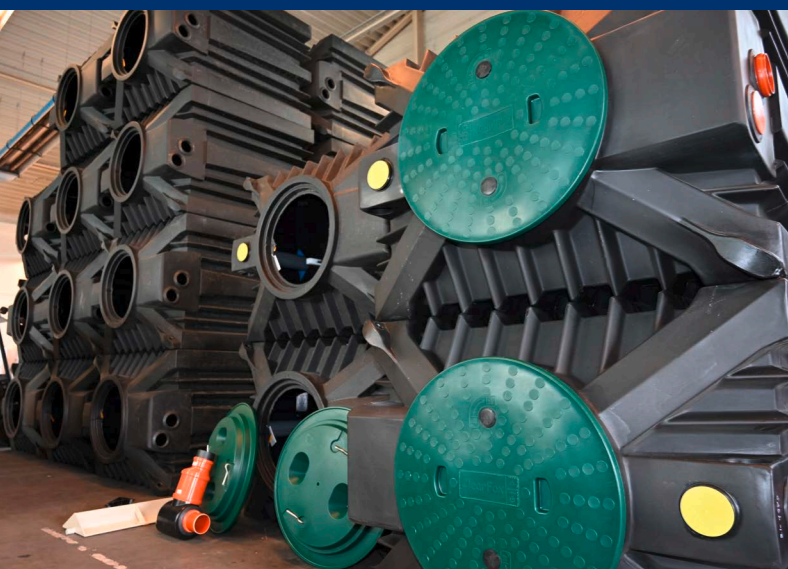
The non-electric sewage
treatment plant for decentralised
applications

clearfox.com



ClearFox® Nature is a fully biological sewage treatment plant with a capacity from 4 to 50 PE. It treats wastewater completely without electricity. It is certified to EN12566-3 and suitable for underground or above ground installation.

Biological sewage treatment without replacement parts. No electricity required.



ClearFox® Nature

The sustainable sewage treatment plant for small scale residential and commercial applications

The applications

ClearFox® Nature is a small sewage treatment plant for decentralised treatment of wastewater. It is individually scalable between 4 and 50 PE. It has been designed for wastewater treatment of single-family homes as well as for larger applications such as housing estates, campsites and apartment blocks.

Installation of a complete system

- Sustainable sewage treatment plant
- Individually scalable up to 50 PE
- Fully operational without electricity
- Underground and above ground installation
- Low sludge production
- Direct discharge into the environment

Retrofitting to an existing system

- Upgrade an existing system with a simple retrofit module
- Transforms any septic tank to a fully biological treatment plant
- No modifications necessary

The advantages

Completely sustainable operation **without electricity**

Silent

Odourless

Above-ground and underground installation

No chemicals required for operation

Guaranteed discharge quality

Almost no maintenance

Guaranteed trouble-free operation

Small footprint

No moving parts in the wastewater

Corrosion resistant

No spare parts required

Expandable up to 50 PE

Retrofitting of septic tanks or soakaways

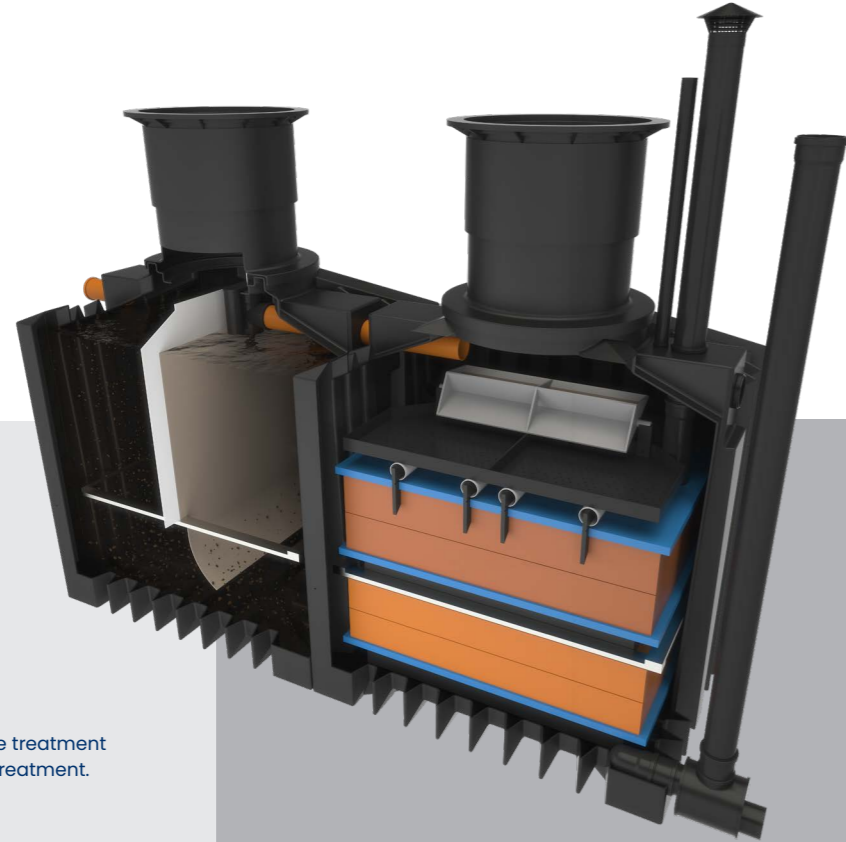
Certified according to EN12566-3 with international approval

0 kWh

electrical energy. 100% electricity-free operation thanks to the special design of the ClearFox® Nature.

ClearFox® Nature

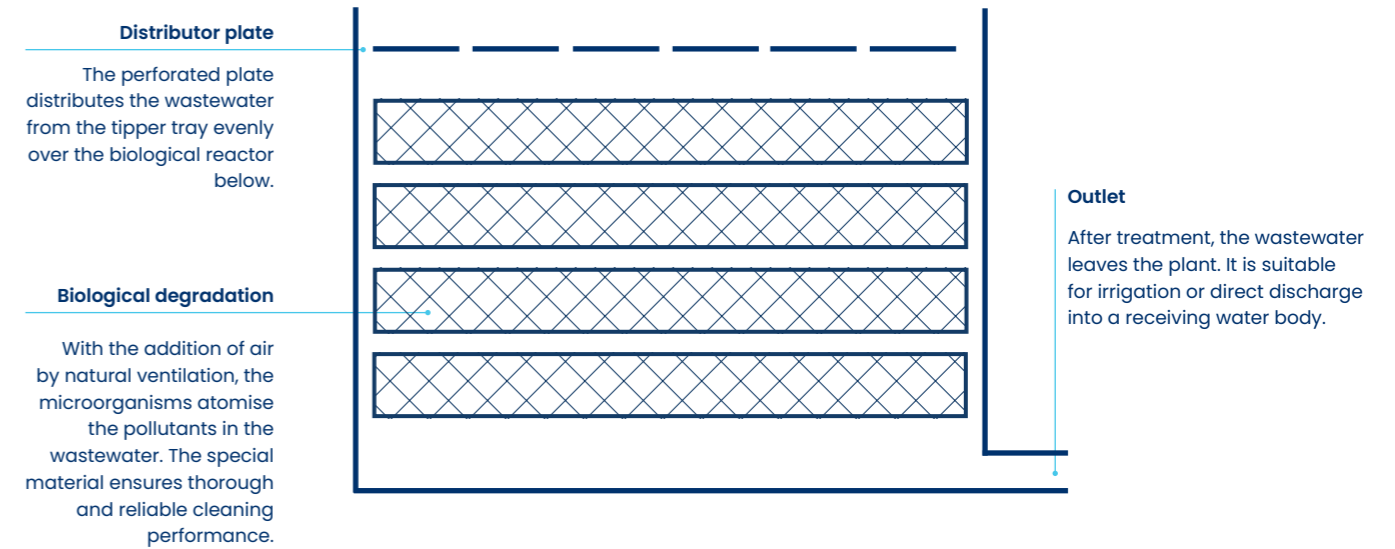
Compact and efficient Just Clever



ClearFox® Nature
The non-electric small sewage treatment plant for reliable wastewater treatment.

ClearFox® Nature

The fully reliable solution for biological sewage treatment

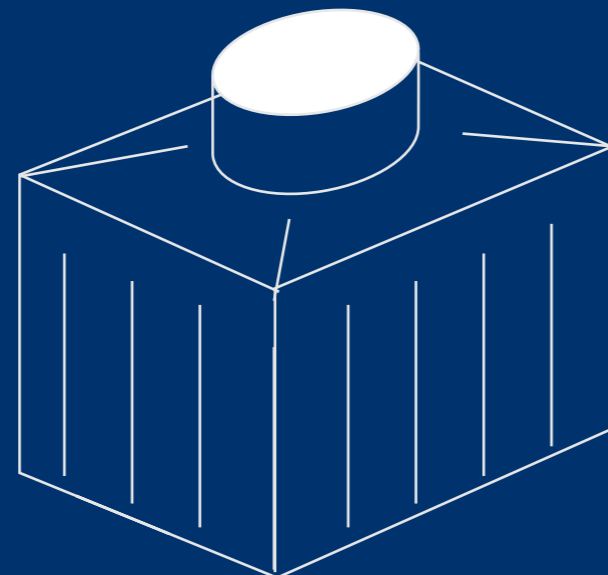


ClearFox® Nature in a plastic tank

The safe solution for all applications

ClearFox® Nature is supplied in a rotationally moulded plastic tank. This is made from a single mould and has internal steel reinforcement. The special ribbing increases stability, making the ClearFox® Nature suitable for underground installation.

As the plastic tank does not degrade, it is the most durable solution for underground installation. It retains its integrity even after decades, minimising maintenance requirements.

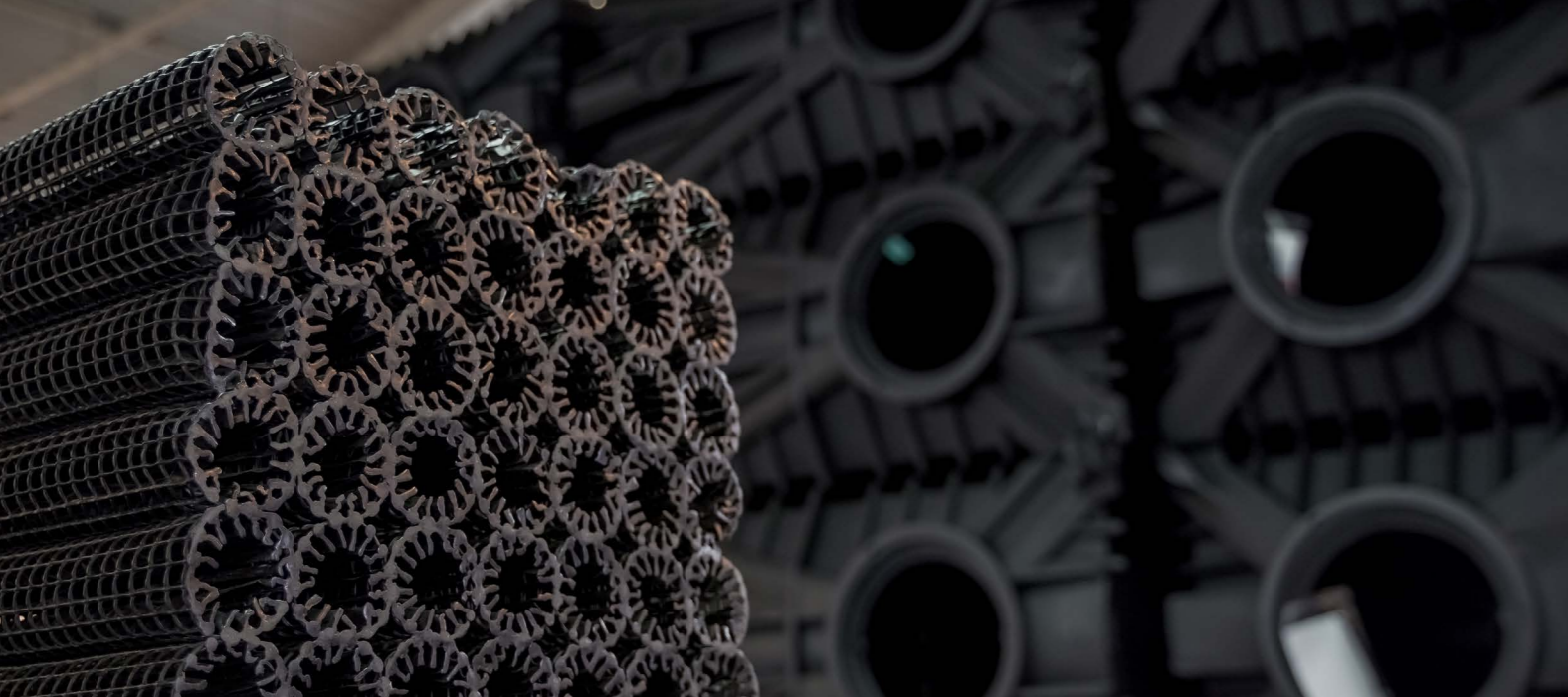


ClearFox® Nature is a **biofilm system with a filtration effect**. The sewage first flows into a pre-chamber. Heavy solids and large particles settle to the bottom of the sludge tank.

The flow of sewage into the biological reactor is regulated by a butterfly valve. The wastewater flows from the buffer tank onto a mechanical rocker. This is continuously filled with wastewater until it tilts on one side due to the increasing weight. The wastewater is distributed **evenly** into the biological reactor below via the perforated box.

Wastewater treatment takes place in the **biological reactor**. The reactor contains various materials on which the microorganisms contained in the wastewater grow. These microorganisms multiply and metabolise the pollutants in the wastewater **without chemicals or additives**. The treated wastewater collects at the bottom of the treatment plant and is discharged.

Through **aerobic sludge stabilisation**, the plant breaks down the secondary sludge. This eliminates the need for regular pumping, which is necessary with septic tanks or other conventional treatment systems. The treated wastewater is suitable for irrigation, infiltration into the ground or direct discharge into a waterbody.



International Service? No Problem!

The performance of ClearFox® Nature at a glance

	4 PE	8 PE	16 PE	24 PE	32 PE	40 PE	48 PE
Power consumption	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh	0 kWh
Dimensions (L/W/H) in cm	310/122/150	470/122/150	870/145/150	750/370/150	875/490/150	1010/625/150	1000/740/150
Drainage class	C	C	C	C	C	C	C
Cleaning performance COD	85,9%	85,9%	85,9%	85,9%	85,9%	85,9%	85,9%
Cleaning performance BOD	94,8%	94,8%	94,8%	94,8%	94,8%	94,8%	94,8%
Degree of use	Direct discharge	Direct discharge	Direct discharge	Direct discharge	Direct discharge	Direct discharge	Direct discharge
Material	KG/PE	KG/PE	KG/PE	KG/PE	KG/PE	KG/PE	KG/PE

The team at PPU has travelled to every continent in the world over the last 15 years. The experience we have gained in adapting to different conditions is what sets us apart, allowing us to successfully commission wastewater treatment plants everywhere.

We act as a general contractor and therefore accompany you every step of the way. The team at PPU Umwelttechnik GmbH has an in-depth understanding of wastewater treatment processes and technologies and is happy to pass this knowledge on to you at any stage of your project.

We are happy to advise you!



**Do you have any questions?
We are happy to advise you!**
+49 (0) 921 1511 020-0
info@clearfox.com



Further information about
our ClearFox[®] Nature
can be found here



Innovation made in Germany

PPU Umwelttechnik GmbH provides wastewater treatment to the private, municipal, industrial and decentralised sectors. Under the brand name ClearFox[®], the company sells wastewater treatment plants produced in Bayreuth all over the world. The focus is on biological, chemical-physical and oxidising processes for wastewater treatment. PPU Umwelttechnik GmbH offers selected processes in ISO sea containers. This makes them compact, mobile, modular and available anywhere in the world within a very short time. Each containerised wastewater treatment plant is tailored to individual requirements, making each project unique.

As a general contractor, PPU takes on the planning, production and commissioning of each individual wastewater treatment plant. Every customer can count on reliable co-operation with PPU Umwelttechnik GmbH.

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