

Our aim? Clear water

Wastewater treatment systems
Made in Germany

The company Looking back

Since its beginnings in 2008, PPU Umwelttechnik GmbH has focussed on industrial, municipal, decentralised and private wastewater treatment.

Since then, our company has developed impressively in a short space of time. Through specialised expertise, in-depth know-how and the provision of reliable and affordable solutions for wastewater treatment, we have succeeded in protecting our precious water resources sustainably and worldwide.



Our Vision Looking ahead

We want to be the **leading wastewater treatment company** in Germany. To achieve this, we provide our customers with innovative and exceptional solutions. At the same time, we guarantee our employees a fulfilling and secure workplace.



MEILENSTEINE DER PPU

2008

Relocation of the company headquarters to Bayreuth. Specialisation in the construction of modular containerised wastewater treatment plants, which are marketed worldwide under the company's own ClearFox® product brand.

2011

Expansion of the wastewater laboratory for pilot systems to offer customised solutions specifically for industrial wastewater.

2015

Expansion of the product portfolio to include the leasing sector. Prefabricated treatment modules for rapid commissioning, which are available for hire.

2021

Opening of the new production site with inviting areas for national and international customers.

2007

Founding of PPU Umwelttechnik GmbH by Dipl.-Ing. (FH) Wolfgang Pöhnl and other wastewater specialists in Kemnath, Bavaria.

2009

In 2009, the ClearFox® Nature - a non electric sewage treatment plant - received all official authorisations for market entry throughout Europe.

2013

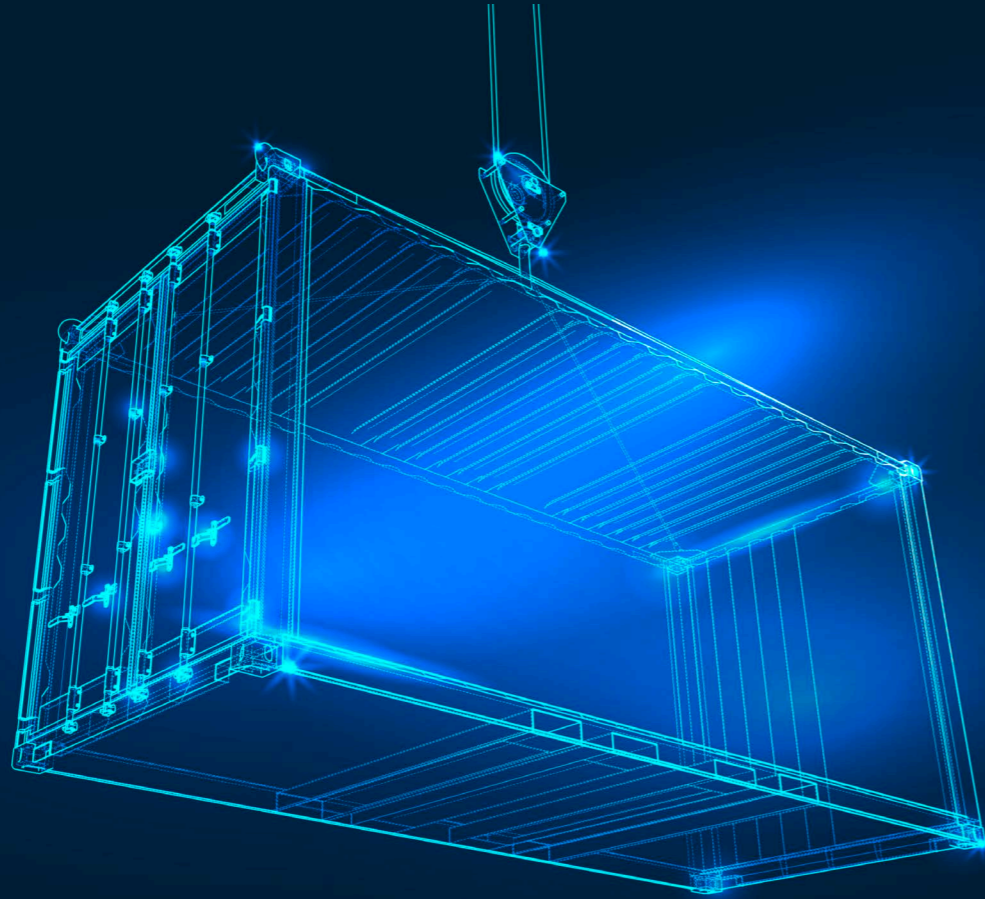
Development of a variant of the proven, cascaded fixed-bed process. Particularly suitable for high nitrogen loads such as liquid manure or fermentation residues.

2019

Relocation to the current production site with subsequent expansion of the office and production areas.

ClearFox® Containerized wastewater treatment

ClearFox®
Containerized Waste-
water Treatment



A containerised wastewater treatment plant is a complete wastewater treatment system where all the equipment is fully pre-installed in ISO sea containers. We are the market leader in the manufacture of containerised, modular solutions and have completed projects all over the world and in many different sectors.

Just clever.
**The most flexible solution
for industrial and
municipal wastewater
treatment.**

Low investment costs

Plug & Play

Fast installation and commissioning

Mobile and easily expandable

For industrial and municipal wastewater

ClearFox® Our products



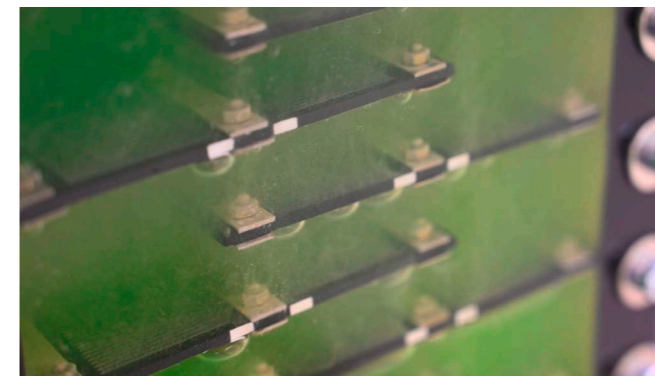
ClearFox® Fixed-bed biological reactor
Biological wastewater treatment with a submerged fixed bed



ClearFox® Dissolved air flotation
Efficient separation of clear water and solids



ClearFox® SBR
Efficient solution for municipal and industrial wastewater



ClearFox® DiOx
Oxidation of persistent contaminants and pollutants



ClearFox® Lamella clarifier
Physical separation of sludge and clear water



ClearFox® Nature
Non electric sewage treatment plant for up to 50 PE



ClearFox® QuickOne+
Sewage treatment plant with proven SBR technology

REFERENZ

Wastewater treatment at a winery with a ClearFox® fixed bed biological reactor

Project

Containerised wastewater treatment plant for a winery

Sector

Food and beverage industry

Size

45 m³/d

Moduls

ClearFox® FBBR

Process steps

- Drum screen
- ClearFox® FBBR
- ClearFox® sludge storage
- ClearFox® dosing devices

Location

Germany

Completed

2022

Inlet quality
 COD 6600 mg/l
 BOD 3500 mg/l

Outlet quality
 COD 600 mg/l
 BOD 300 mg/l



The project at a glance

The Fürstlich Castell'sches Domänenamt Winery from Germany enquired about modernising its wastewater treatment plant. The treated wastewater is to be discharged directly into a stream, which partly irrigates the vineyards. PPU Umwelttechnik GmbH provided a containerised wastewater treatment plant with fixed bed technology, which treats the wastewater to the required discharge values.

REFERENZ

Municipal wastewater treatment in Pfalzpaint with a ClearFox® FBBR-Containerized wastewater treatment plant

Project

Expansion of a municipal sewage treatment plant

Sector

Municipal wastewater treatment

Size

800 PE

Moduls

ClearFox® FBBR

Location

Germany

Completed

2020

Inlet quality
 COD 1190 mg/l
 BOD 450 mg/l
 NH₄N 64 mg/l
 P_{tot} 19,1 mg/l

Outlet quality
 COD 58 mg/l
 BOD 25 mg/l
 NH₄N 24,4 mg/l
 P_{tot} 9,8 mg/l



The project at a glance

The municipal wastewater treatment plant in Pfalzpaint treats wastewater with a capacity of around 800 PE. After treatment, the wastewater flows into the Altmühl, which flows into the Danube. Following an adjustment to the discharge values, the municipal wastewater treatment plant was no longer able to achieve these. To be able to continue operating the existing infrastructure, PPU Umwelttechnik GmbH extended the existing plant with a containerised solution using fixed-bed technology. This ensured compliance with the discharge values again.



Leasing or purchase?

All containerised wastewater treatment plants are available on a lease or buy-to-lease basis. The leasing period can be customised between a few months and several years. A purchase option is available at the end of the leasing period. Both when purchasing and leasing a wastewater treatment plant, comprehensive customer service is available to support the smooth operation of the wastewater treatment plant.



Service

As a general contractor, we ensure that your wastewater treatment plant operates at maximum efficiency throughout its entire life cycle. We have a team of experts who offer specialised inspection and maintenance services for our entire product range.



Training

PPU Umwelttechnik GmbH offers all customers comprehensive product training. Depending on the requirements, customers either learn how to operate the system themselves or how to commission it independently. Training courses are available on site or at the PPU headquarters in Bayreuth.

Partners also have the opportunity to take part in a comprehensive training programme. They receive all the information they need to present the treatment procedures in the best possible way. The knowledge imparted is so extensive that partners are able to commission systems independently and fully train their customers to operate the system.

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