

SBR

Sequential Batch
Reactor
Equipment Kits



Advanced biological wastewater
treatment for industrial and
municipal applications



A range of clear advantages including sludge stabilisation, market leading effluent, EN12566-3 certification and remote monitoring.

Reference Projects



Egypt - Food and Beverage

200 m³/hr SBR in existing concrete tanks for a major food and beverage company producing potato chips.



Kenya - Residential

1000 PE SBR system installed in concrete tanks designed by PPU. QuickOne single chamber SBR with effluent suitable for irrigation.



UK - Hotel

SBR standard with class N effluent installed in existing GRP and concrete tanks. 450 PE capacity with direct discharge into a river.

Cost-effective equipment kits and technology for installation in tanks

Controlled biological batch treatment to achieve high effluent standards with minimal OPEX/CAPEX

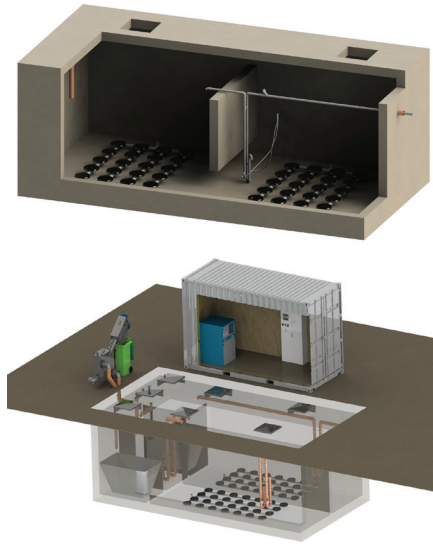
Flexible solutions for any application

Industrial Wastewater

SBR technology can be used as a standalone treatment step for industrial wastewater. This is due to the controlled batch biological treatment and the ability to handle high pollution loads. SBR can also be used in conjunction with other treatment steps including dissolved air flotation for further biological treatment and cleaning.

Municipal Wastewater

SBR is a highly efficient process step for cleaning municipal wastewater from housing, hotels, tourist developments, etc. Automatic operation combined with low OPEX makes it a cost-effective solution. Different configurations mean, that any effluent standard can be achieved.



1

QuickOne SBR

SBR process in a single-chamber tank with sludge stabilisation.

2

SBR Standard

Classic SBR process in a two-chamber tank with prechamber and separate biological reactor.

3

SBR Retrofit

Flexible bespoke SBR kits for retrofitting into existing tanks for biological wastewater treatment.

Special Features

Our solutions stand out from competitors due to a number of unique selling points. Visit our website to read about them in more detail.



Advantages

Low Cost



Lower OPEX compared to other biological processes

Kit Form



Completely flexible solutions in kit form that can be used with any tanks

Reliable



100% process guarantees with every system sold



SBR process is independently verified and certified by an independent test facility:

- ✓ Designed in strict accordance with DWA design guidelines
- ✓ No chemicals required for operation
- ✓ Less sludge than any other SBR system with sludge stabilisation
- ✓ Remote monitoring and control
- ✓ Effluent with BOD₅ of <6 mg/l and Ammonia <1 mg/l
- ✓ Certified to EN12566-3 with international approvals



PPU Umwelttechnik GmbH

PPU Umwelttechnik GmbH is a technology company based in Bavaria, Germany. We develop unique wastewater treatment processes, including physical, biological, chemical, filtration and oxidation steps. We offer products and complete tailor made solutions for any industrial or municipal applications. We manufacture all of our products and solutions at our factory in Bavaria.

ClearFox®

ClearFox® is the brand name for the range of products and solutions, manufactured by PPU. ClearFox® products are exported all over the world. Systems are currently installed and operating in Africa, Europe, Middle East, Russia/CIS and Asia. The ClearFox® brand is globally recognised as a specialist provider of solutions for wastewater treatment.

Why choose PPU?

Quality control

Our plants and systems are entirely manufactured, independently certified, and tested in Germany. Before delivery, they go through an independent approval process. Customers in over 50 countries worldwide use ClearFox® wastewater treatment plants.

Cost saving

We use the most advanced technologies, which are particularly energy-efficient. PPU offers solutions that work completely without electricity. This means that the operating costs are very low or completely eliminated.

Risk free purchases

You get up to 15 years warranty on selected parts. All ClearFox® treatment systems use corrosion-free materials designed to last. With our systems, we guarantee compliance with all agreed purification standards.

Exclusive technology

Only with us you get patented and specialised solutions that are unique on the market. ClearFox® DiOx advanced oxidation removes even persistent substances, while our ClearFox® DAF works without a scraper and thus requires less maintenance. So all of our processes use cutting edge, advanced technology.

Complete service

With our full engineering and installation team we can offer a total service to customers. We analyze your wastewater in our in-house laboratory, which enables us to offer you the best solution at the best price-performance ratio. We take care of the complete project planning for you and are also available to you after the purchase with our 24/7 service team.

Contact Us

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