

SBR

Sequential Batch
Reactor
Biological
Treatment



**Cost effective biological wastewater
treatment for industrial and
municipal applications**



Low cost equipment and technology for installation in tanks

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

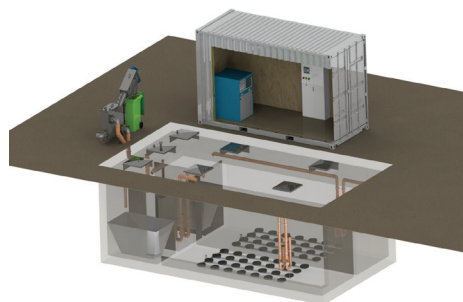
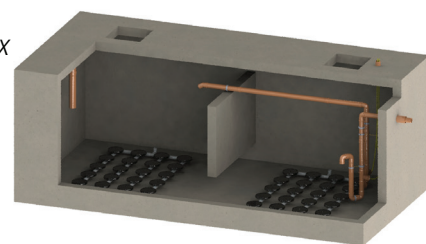
Flexible solutions for any application

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 single chamber tank with sludge stabilisation.

2

SBR Standard

Classic SBR process in 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.

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 is the best choice for reliable,
low cost advanced biological
wastewater treatment

Reference Projects



Egypt - Food and Beverage

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



Kenya - Residential

1000 person 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. 450PE capacity with direct discharge into a river.

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.



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
-  Lower electricity usage than other biological process technologies
-  Ability to handle underload and overload
-  Designed to meet the effluent standards in any country or region
-  Complies with all EU standards and all equipment is CE marked



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/municipal application. 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

Contact Us

PPU Umwelttechnik GmbH

Carl-Kolb-Str. 6
95448 Bayreuth, Germany
+49 (0) 921150 63 99 0
info@clearfox.com
www.clearfox.com

