

HUBER DeWaTec BatchPLUS® Relax



Best SBR-technology at the price

➤ Product Information

The small sewage treatment plant BatchPLUS® offers the most up-to-date and **reliable SBR-technology at the best price.**

The newest plant by HUBER DeWaTec, one of the world's leading manufacturer of decentralized wastewater treatment plants, is good **for new building and refitting into two- or three-compartment tanks** for single or multifamily houses. It works completely biologically, smoothly, driven by compressed air – and therefore guarantees a perfect wastewater purification for four to 16 people (number of users) in accordance with the German obligatory legal requirements and far beyond.

The small sewage treatment plant BatchPLUS® has been developed by wastewater biologists, process engineers, and experts in materials and operates with failsafe systems engineering. The excellent and environmentally friendly purification performance has been documented by the independent institute for testing and development at the technical university of Aachen (Prüf- und Entwicklungsinstitut an der RWTH Aachen e.V.) and by the **DIBt authorization Z-55.3-120.**

Further benefits include: **low energy consumption**, an innovative design that results in **low installation costs** and an **all-inclusive guarantee of durability.**



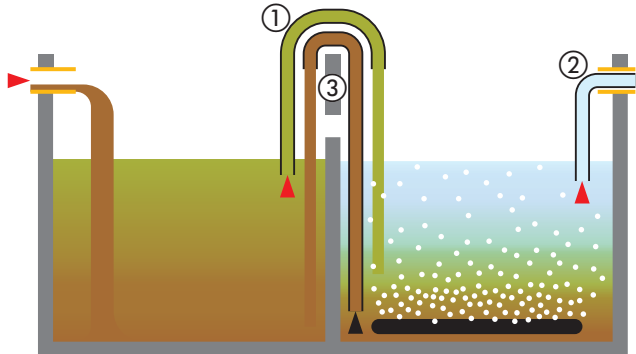
For control of systems engineering: the space saving console solution with the most recent control technology "made in Germany", is good for dry indoor use.

➤ Technical overview:

Users	Number of tanks	Inside diameter in metres*	Depth in metres*	installed engine output [kW]**	aeration*** Ø [h/d]	energy consumption Ø, total [kWh/d]
4	1	2,00	1,20	0,059	8,5	0,71
6	1	2,50	1,30	0,059	10,8	0,85
8	1	2,50	1,40	0,080	10,8	1,13
10	1	2,50	1,70	0,120	10,8	1,65
12	2	2,00	1,60	0,120	10,8	1,65
16	2	2,50	1,40	0,135	10,8	1,85

* Operative examples; variations can be provided. ** Engine output under service conditions.

*** May vary in operation under reduced, energy saving working load.



SBR units by HUBER DeWaTec achieve best outlet data:

- COD: 37,3 mg/l
(today's legal requirement: 150 mg/l)*
- BOD: 3,6 mg/l
(today's legal requirement: 40 mg/l)*
- Filterable substances: 16 mg/l
(of 40 mg/l required by DIBt)*

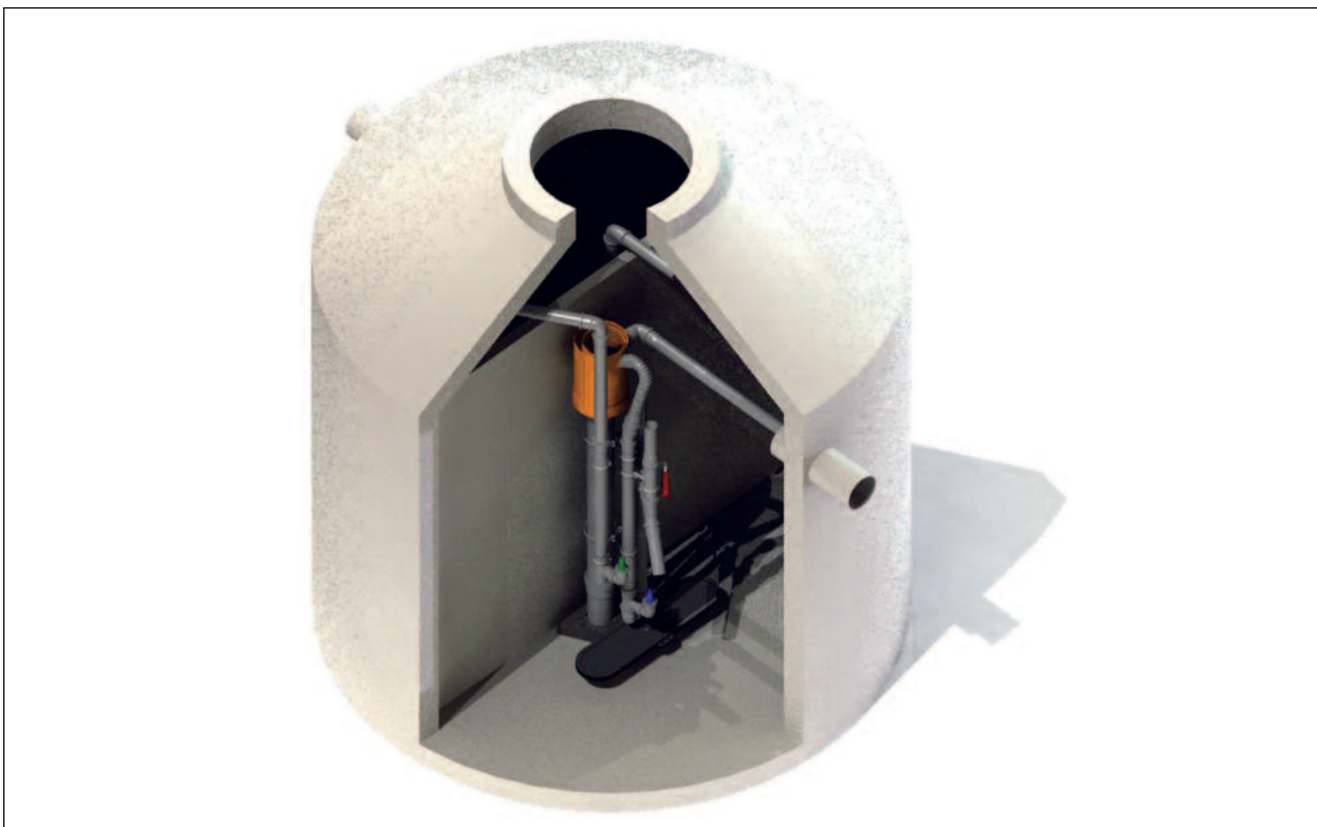
*Average results from permission testing in Germany, a 24 hour mixed sample, homogenised, respectively from random sample. Stage 04/2008. Subject to change without notice.

Presentation of the operating mode of an SBR unit.

➤➤ The reliable purification of domestic wastewater during the SBR-process:

One compartment is good for mechanic primary treatment. Then the wastewater is transported into the biological treatment area 1. During this procedure and for a period afterwards the site of the biological treatment is aerated. In this way the sludge is “animated” and the microorganisms can do their detergent work.

After aeration comes the recovery phase, when clear water is separated from the activated sludge. Now a precisely determined amount of purified wastewater is drained off 2. Any excess activated sludge is transported back into the first chamber 3. The area of biological treatment can now be filled again.



A matter of a few hours for qualified partners of HUBER DeWaTec: The installation of best SBR technology at the best price.

➤ The benefits provided by the HUBER DeWaTec BatchPLUS® Relax:

Each small sewage treatment plant HUBER DeWaTec BatchPLUS® Relax is **converted according to the amount of wastewater at the production site**. For the customer, this means getting the perfect plant for his or her individual needs; enhanced reliability; and all the security that is necessary. Furthermore, it is good for the environment.

Existing multichamber pits – if they are free from defects in buildings and structures – **can be refitted within a few hours**, so that they fulfil all legal requirements (EN 12566 and DIN 4261).

New tanks need only two compartments and only an approximate volume of 3.000 litres for a household of four. And that reduces costs.

All components that are subject to routine maintenance are stored together with the electronic control: **easily accessible** in a separated “control centre” that meets all current requirements.

The SBR small sewage treatment plant HUBER DeWaTec Batch PLUS® Relax is designed for **maximum purification performance**, day in, day out, 365 days a year. This is ensured by the very **exact control of the aeration intervals** – and by mature control engineering “made in Germany”.



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BatchPLUS®
Relax