

Why you should decide for a
small wastewater treatment plant of utp:

Extension modules for **klärofix**
www.klärofix.de
the small waste water treatment plant

utp
Just our water.

Think of the OPERATIONAL COSTS?!

1) PowerCOSTS

Our klärofix® is Germany's most economical SBR wastewater treatment plant! We do not only claim that – IT IS PROVED.

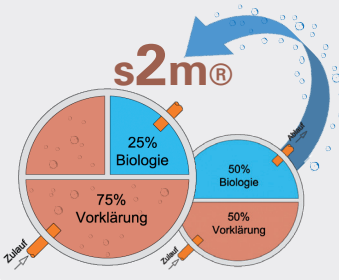
Our small wastewater treatment plant needs less power than an energy-saving light bulb. Depending on the cleaning level, a 4 PE plant needs between 0.33 and 0.47 kWh per day. Other technical small wastewater treatment plants need with the same 4 PE cleaning performance four times more power per year. The values revealed are no manufacturer specifications but rather determined by an independent testing institute.

more economical than
an energy-saving lamp



2) Sludge removal COSTS

Due to our unique s2m®-technology in connection with a 50 % larger primary stage, sludge removal is only every 5 to 9 years necessary. We do not only claim that – IT IS PROVED.



Sludge treatment with the sludge-to-mineral technology?!? Unlike our competitors, our tanks do not only have a sludge storage of 325 litres. Due to the s2m® dimensioning our tanks have at least 515 litres of primary volume per PE. In connection with our unique s2m® process management, sludge removal at our small wastewater treatment plants is only every 5 to 9 years necessary.

3) Maintenance COSTS



No electric pumps in
the wastewater



No current-carrying technology
in the wastewater



No mechanical parts in the
wastewater



No more hassle due to annoying and expensive repairs!

Module Telemetry

Our telemetry module for the remote monitoring of small wastewater treatment plants increases the operational reliability. Due to the automatic daily status request, we know right away if something is wrong with the small wastewater treatment plant. You can view all current data of the small wastewater treatment plant comfortably from afar by means of a web platform.

- integrated, compact telemetry unit for remote monitoring
- via mobile network
- up to 11 different, exactly defined messages possible
- together with www.homebook.de, not further operator controls



Module +H

A UV lamp disinfects the clearwater subsequently. With our compact and low-maintenance +H module, we reach bathing water quality for sensitive waters.



Module +P

With an additional dosage of a precipitant, our +P module eliminates effectively phosphate.



Further product lines:

www.kläropro.de
the industrial waste water treatment plant

for object-related applications,
e. g. industrial plants, restaurants

www.klärocom.de
the municipal waste water treatment plant

for 50 to 3,000 inhabitants, also turnkey-ready

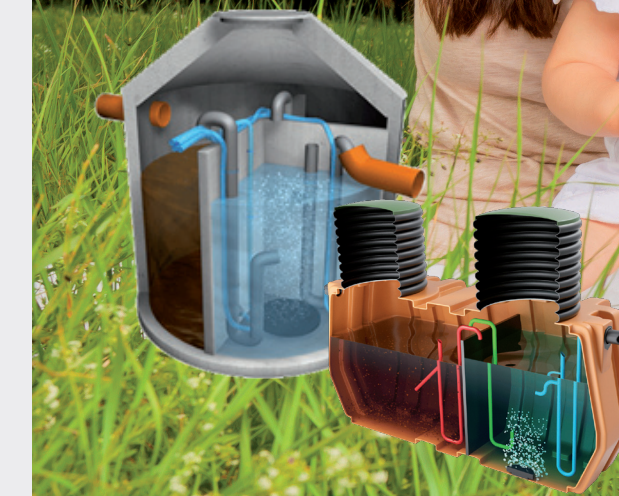
Please contact us if we have awakened your interest in our products and services. We will be at your disposal and will inform you on site in detail!

utp
Just our water.

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Your regional utp consultant

Individual small wastewater treatment plants
Quality adapted to your needs.



CE

Liberté • Égalité • Fraternité
REPUBLIQUE FRANÇAISE

PIA
Prüfinstitut für
Abwassertech
GmbH

Deutsches Institut
für Bautechnik

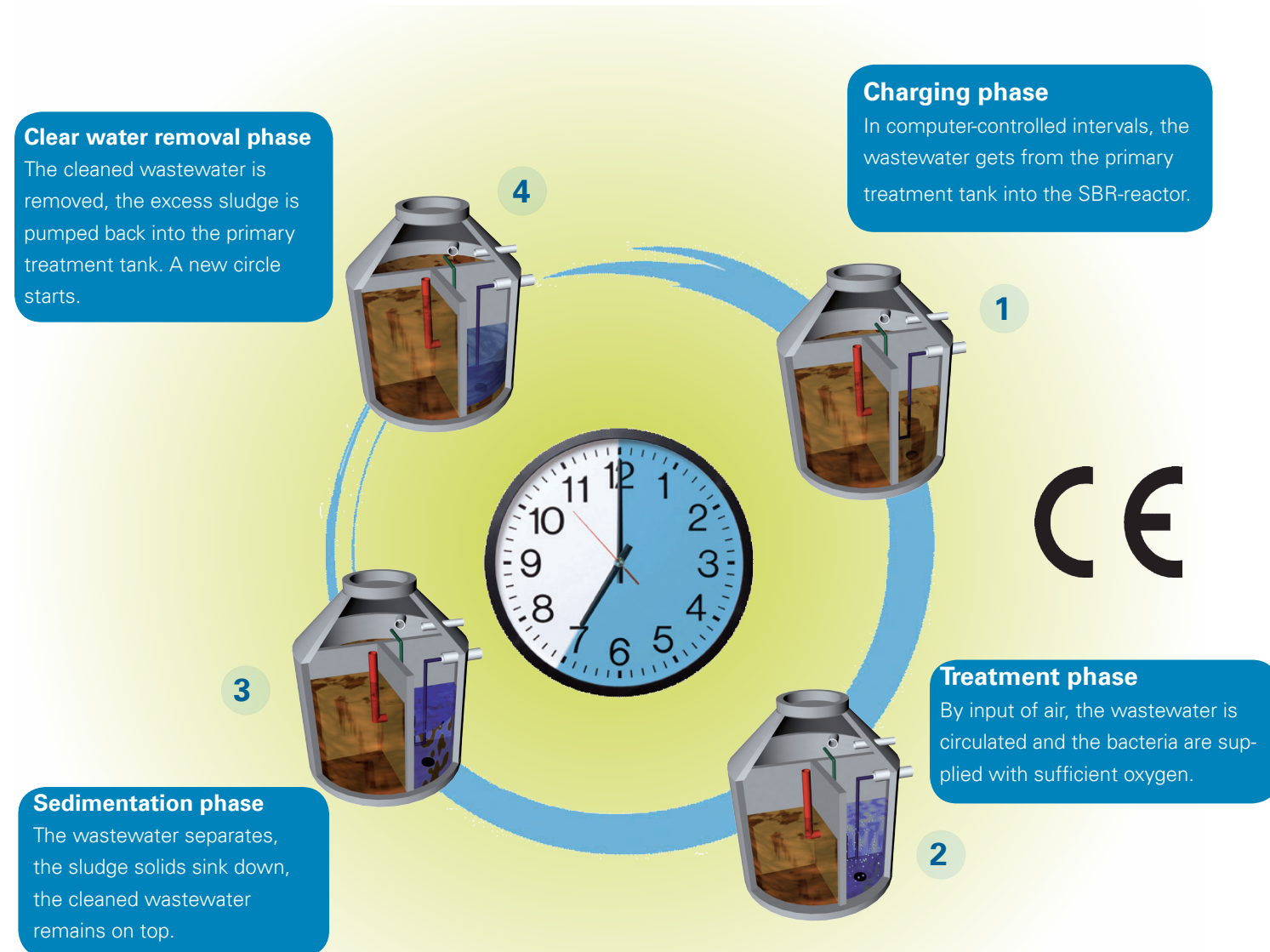
DWA

ÖKOLOGISCH ÖKONOMISCH
BDZ
GEPRÜFTE QUALITÄT

- in every wastewater treatment plant you will find our experience from 25,000 small wastewater treatment plants with more than 125,000 satisfied customers
- modular design for later adjustments of the filtration level without earth works
- latest CE-certificates as proof of the cleaning performance
- a new innovative dimensioning makes our small wastewater treatment plant insensitive to overload and underload; inoculation is not necessary
- high-quality materials, like wastewater resistant plastics and stainless steel as well as the waiving of movable parts in the wastewater (e. g. electric pumps) make our small wastewater treatment plants extremely robust and persistent

**Clean water in one cycle:
Rely on the SBR-process**

The SBR-process is the oldest and most proven treatment process of all. Contrary to other processes which require three cleaning steps, two steps are sufficient here. During the first cleaning step the mechanical primary treatment is taking place, in the second cleaning step, the biological cleaning and the secondary treatment is combined in one tank. Thus, a separate secondary settlement tank is not necessary.



klärcontrol® + hydrocontrol®



4 - 50 PE

Magnetic valve block

Continuous, hydrostatic and maintenance-free air measurement within control unit with fully automatic analysis

Automatic recognition of start-up operation + underload operation + normal load + overload operation

Monitoring of all system-relevant operating conditions with alarm function

All filtration levels

5 programs

3 servicing levels (one open level + operator + service)

Setting of time at operator level (+ automatically with telemetry)

Protocol books for 1000 reports

Operating hours counter + cycle counter

- Memory slot for „extension module telemetry“
 - Memory slot for cashlock®
 - Memory slot for „extension module hydrocontrol“
- Memory slot for „extension module +H and +P“
- Memory slot for „extension module electronic protocol book (e-book)“

Standard on panel with mounting plate, surcharge for sheet steel cabinet or outdoor column

klärbox®



4 - 12 PE

Actuator technology

Continuous, hydrostatic and maintenance-free air measurement within klärbox® control unit with partly automatic analysis

Start-up program + underload + normal load operation in one program

No load-dependent as well as hydraulic-dependent alarms

Only filtration level „C“

1 program

2 servicing levels (one open level+ service)

No real time

No protocol book

Only operating hours counter, no cycle counter

No extension modules possible

Standard on panel with mounting plate, surcharge for sheet steel cabinet or outdoor column

SBR-kits

- for the installation in a new concrete or PE tank or for retrofitting an existing tank
- due to geometry and surface independency, a retrofitting of nearly every tank is easily possible
- air lifter driven by compressed air without electrical pumps
- no wear and elevated operational reliability
- no live parts in the tank
- all parts are made of wastewater resistant plastics or stainless steel
- factory preassembly of the control unit on a mounting panel for wall installation



Complete pre-installed system in concrete tank

- monolithic, from a single mould without glue-joints of own production
- all traficability classes
- cost-effective and easily installed



Complete pre-installed system in plastics tank

- small and compact tank made of PE (polyethylene) with welded partition wall
- designed as a two-chamber-tank
- height variable dome shaft for different inlet heights
- with pre-installed SBR-kit and ready for connection



Control cabinet

- for installation in- and outdoors
- material optionally steel sheet or plastics
- external hose connections
- encapsulated, dust-tight design
- protection class/examination IP55
- pre-installation of complete control unit



Outdoor column made of glass fibre reinforced plastic

- self-supporting plastic housing for outdoor installation
- stable design with integrated socket for earth placement
- no installation works at the house
- optional accessories like signal lamp and much more possible
- pre-installation of complete control unit

