

KLARO

Highly productive wastewater treatment systems up to 1.225 PE

We provide clear water



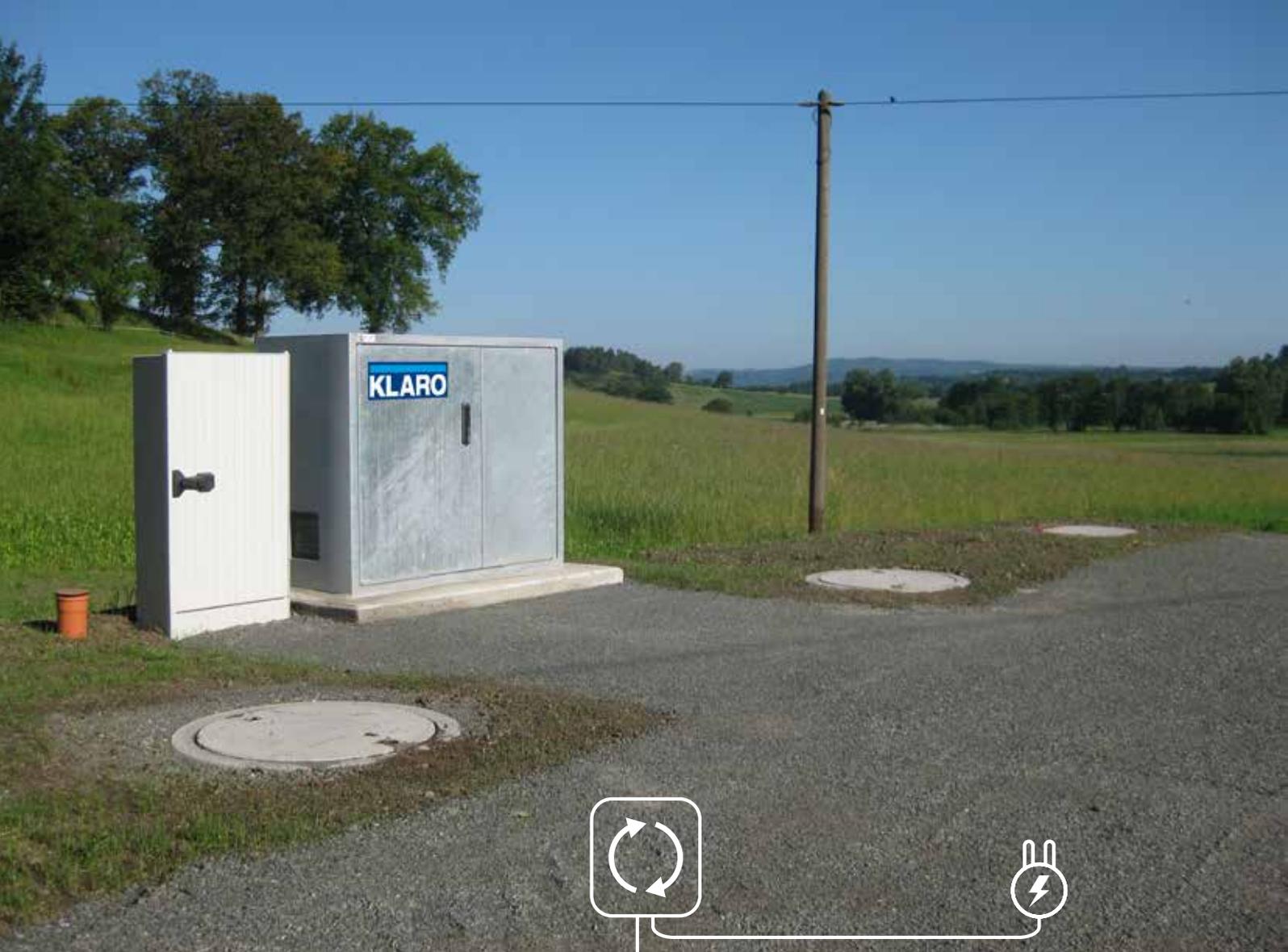
No mechanics
in the wastewater



No pumps
in the wastewater



No electrical parts
in the wastewater



No mechanical parts, pumps and electrical parts in the wastewater

All components are permanently fixed to the septic tank. All handling processes take place through the air-lift pump. The oxygen supply is fed through membrane ventilation, which is mounted on stainless steel manifolds. All electrical parts are located outside the container in a secure control box.

Our benefits

- fully biological functioning
- 98% cleaning capacity in 6 hours
- different treatments stages possible: nitrification, denitrification, phosphate elimination, sanitisation
- also suitable for fluctuating amounts of water (daily, seasonal...)
- fully automatic operation
- all handling processes are based on air-pressure pumps
- no error-prone pre-cleaning (e.g. rakes)
- reduced service and maintenance requirement
- lower operational costs
- independent of container - can be installed in tanks made of plastic, concrete, fibre glass, etc
- suitable for practically all tank sizes as an add-on
- also available as a complete system
- takes up minimal space thanks to underground installation
- size of the sludge storage tank can be adjusted to the cleaning intervals
- very good price-performance ratio
- short delivery times due to optimised production
- a great deal of experience - over 250 small wastewater treatment plants installed worldwide

Over 210,000 people treat their water with KLARO!

Put your faith in the expertise of the market leader in small wastewater treatment plants with air-lift pump technology.

KLARO GmbH in Bayreuth. Your provider of technology and expertise!



KLARO has been providing clear water since 2001. In a connection to the main sewage system not possible for financial reasons? Then that's where we come into play. Whether it's a family home, hotel or municipality – KLARO has the perfect small wastewater treatment plant for every application, from 1 to 1,000 people. The KLARO modular construction principle means the highest levels of flexibility and sustainability for the future.

More than 210,000 people have already put their trust in KLARO technology. With 24 employees with a wide range of areas of expertise, we always create an optimal and practical solution for your requirements.

Production in Bayreuth

There are currently more than 27,500 KLARO small wastewater treatment plants installed in over 26 countries all over the world. Advice, delivery and installation are always carried out on-site by qualified specialist partners regardless of the size of the treatment plant. These partners also provide regular maintenance and ensure that your KLARO small wastewater treatment plant functions without any interruptions.



Experience and competence in wastewater treatment systems!

Be it for a single household, communal facilities,
communities, hotels and restaurants, ...

KLARO at home.
Villages, municipalities, regions.

Community plants

All inhabitants of the French village of Paschier chose a community plant. A 115 PE plant was built for the whole place, and right in the middle of the village. A community worker is assigned to supervise the plant. A regional KLA-RO professional partner is responsible for its maintenance.

It would also be possible to install individual plants for homeowners. However, the advantage of the community plant is the significantly lower cost per inhabitant.





KLARO on holiday. Camping, holiday homes, hotels, ...

In the sun or snow

KLARO plants are installed well protected in the ground. This permits us to install KLARO systems worldwide in practically all climates.

Seasonal fluctuations do not cause any problems for our sewage treatment plants. The number of daily cleaning cycles automatically adjusts to actual requirements.

In extreme cases the plants are installed redundantly with multiple lines. The tanks are then set up in such a way that the biological cleaning takes place in two separate SB reactors. In low-season the SBR tank remains shut down. This is re-commissioned when the high-season begins. Activated sludge is then fed through from the operational tank to the tank that was previously shut down. Therefore, it is 100% operational immediately.





KLARO in business. Commerce, industry, ...

Commerce

Supermarkets, among others, are equipped with our sewage treatment plants. These are installed under the customer car parks, which are still fully passable for vehicles (cars, lorries). In Italy, business enterprises have opted for a KLARO system instead of a connection to the city sewer system. By doing so they save on expensive wastewater charges.



Industry

A 1000 PE plant was built for a shipyard in Norway. The tank required was specially-built based on our specifications. As well as water from the residential accommodation, water from the staff canteen was also treated. The first treatment stage includes an intermediary grease trap. The treatment of the water in 1000 PE sewage treatment plants is so good that the water can be released directly into the Fjord without hesitation.





KLARO in particular cases. Wineries, poultry farms, temporary work sites, ...

Wineries

KLARO built a sewage treatment plant (80 PE) for a winery at Lake Geneva. Domestic and industrial wastewater is treated together. Seasonal fluctuations due to wine production and wine testing were also taken into account when evaluating the sewage treatment plant.



Temporary work sites

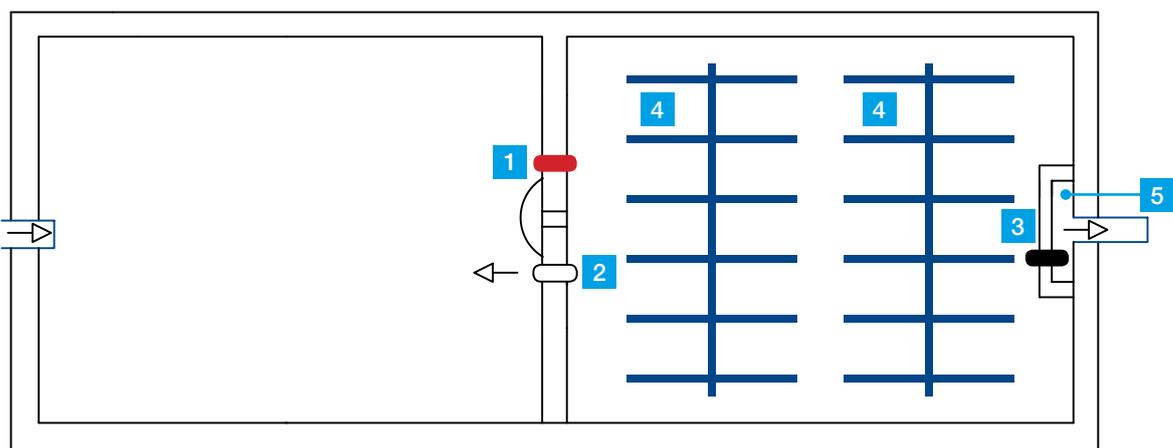
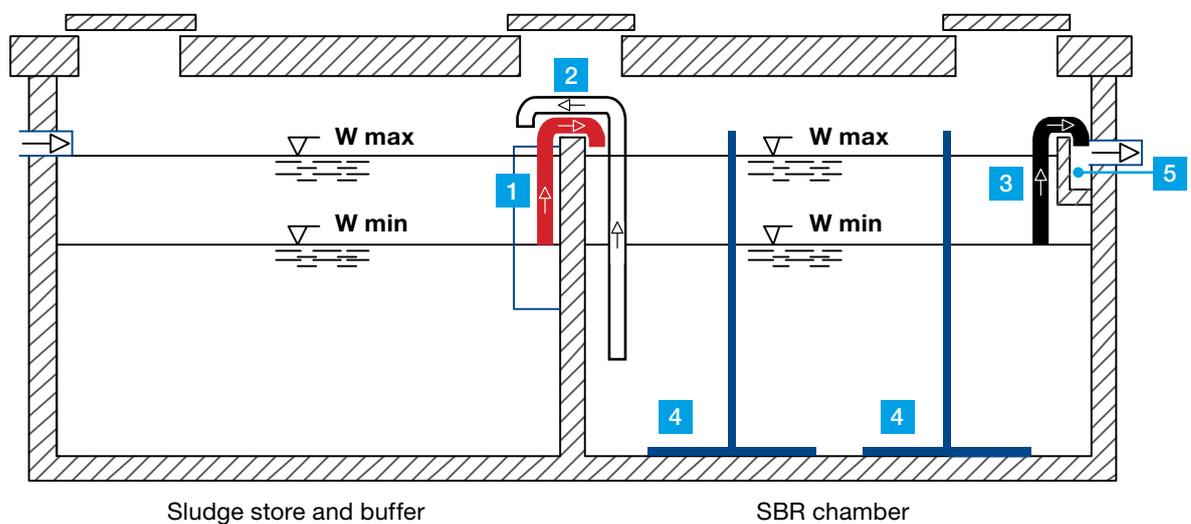
KLARO sewage treatment plants are also so easy to plan that they can be moved around at any time. Whether motorway road works or tram works, the construction cabins and sanitary facilities always have to be moved again. This is no problem for KLARO. Both the required tanks and switch boxes are planned and set up in such a way that the sewage treatment plant can be relocated at any time.



KLARO offers technical know-how in sewage treatment systems!

Tanks and machine technology!

Whether round or square, concrete or plastic, we can bring our technology to your tanks.



1. Charging lifter 2. Excess sludge lifter 3. Clear water lifter 4. Membrane diffusers 5. Sampling point



The machine technology is situated dry and safe outside the septic tank, either enclosed or in the open.

Advantages

- easily accessible for operators and service technicians
- reliable
- durable
- no electrical components in the tank

Standard components

- air compressor
- magnetic distributor
- cooling fan
- micro-processor control
- main switch
- management plan

Additional components

- metering technology (e.g. for phosphate precipitation)
- telecontrol (modem or LAN)
- warning lights
- acoustic hood for air compressor



Version I: M-technology

The components are divided into four modules which are then fully assembled on-site.

Advantages

- maximum flexibility
- low-cost

Version II: Indoor cabinet

The components are fully assembled in a metal sound-proof and lockable technical cabinet.

Advantages

- compact design
- extra quiet

Version III: Outdoor cabinet

The components are fully assembled in a metal cabinet.

Advantages

- sturdy and all-weather construction
- weight reduction of about 50% compared to concrete cabinets
- optically appealing due to the homogenous surface

More security through remote monitoring!

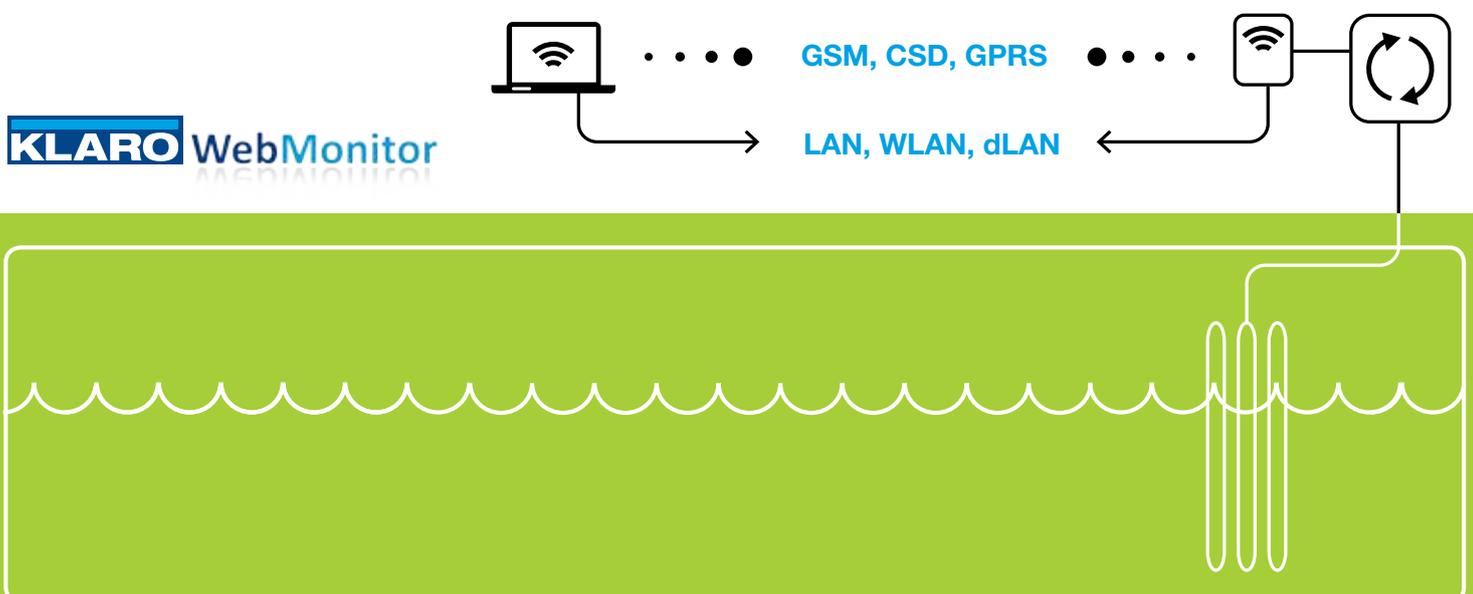
The latest remote monitoring/telemetry technology
For optimum operational safety!

KLARO WebMonitor (www.klaro-webmonitor.de) The optimal solution when it comes to remote monitoring!

Remote monitoring of small wastewater treatment plants is only going to increase in significance in the future. KLARO is already positioning itself in the market with the innovative and unique KLARO WebMonitor.

Benefits

- Monitoring and editing of plant data via an internet portal
- Automatic storage of monthly data
- Overview for all systems in a separate portfolio (table and map)
- Direct access to plant data (CSD, GSM, GPRS, LAN – upon consultation)
- Control unit
- E-mails or text messages able to be sent to the operator/maintenance company in the event of a fault.





600 PE in Germany



300 PE in France



1.000 PE in Norway



300 PE in Vietnam



400 PE in Germany



187 PE in France



300 PE in Italy



We provide clean water - even in Sri Lanka!

KLARO

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