

KLARO

KLARO container.blue®

The intelligent mobile wastewater treatment solution



No mechanical parts
in the wastewater



No pumps
in the wastewater



No electrical parts
in the wastewater

KLARO *container.blue*[®]

KLARO Container Wastewater Systems are engineered and constructed in Germany with Maximum Operating

Reliability our priority. KLARO Systems are installed in many countries in a range of operating

conditions in industries like mining, tourism and remote villages.

- **Easy to transport (standard 20 ft container)**
- **Pre-engineered and modularized design**
- **Quick set-up and take-down (plug-and-play)**
- **Low power use (1.2 kWh per treated 1,000 L)**
- **Designed to treat to 10,000 L per day**
- **Parallel connection possible for bigger amounts of wastewater**



A look at the container



Switch cabinet

The air-conditioned switch cabinet in the KLARO container system has a quiet compressor. The metal cabinet is securely housed in the container and can be easily operated via two control units.



KLARO WebMonitor®

Data remote surveillance enables the documentation of relevant parameters as well as the transmission of fault and status messages via SMS or e-mail. It is also possible to control the system via the surveillance portal. For the KLARO WebMonitor an additional modem is installed in the container.



Cleaning performance

The cleaning performance was established in a practical field test lasting several weeks. The system was gradually filled with untreated domestic wastewater. In this case, the maximum filling quantity amounted to 10 m³ per day.

The notified testing institute for wastewater technology (PIA GmbH) determined the cleaning performance at the test location by taking samples of the inflow and outflow.



UV disinfection

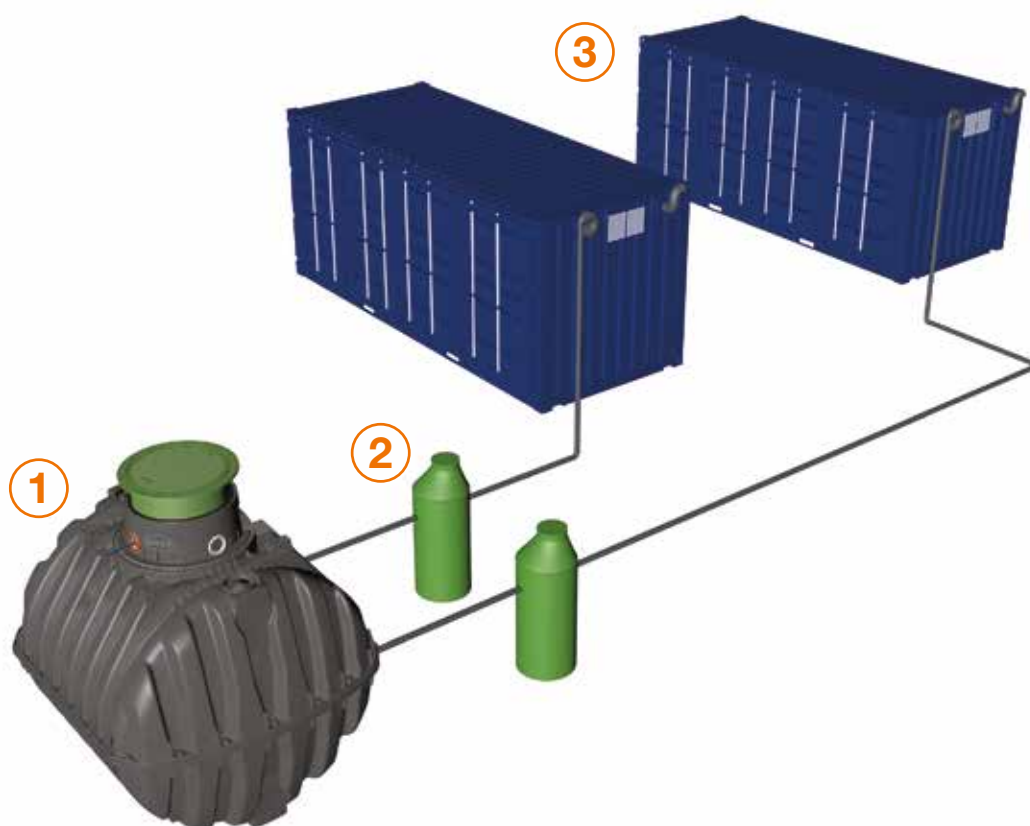
For sensitive zones with high requirements in terms of environmental protection, an additional UV module can be installed. For clear water extraction, the outflow water is intensively irradiated with UV light. This inactivates the resulting bacteria which die off within a few seconds.

Variation for larger quantities of waste water

To clean larger quantities of waste water, two or more KLARO containers can be installed. In this case, the systems are connected in parallel to a

wastewater collection tank (1). From there, the waste water is fed from a pumping station (2) to the respective container (3). The waste water is then

cleaned using an innovative modified SBR process, before being fed into receiving water (stream, river or sea) .



General Specifications

- **Container:** 20ft side & rear door opening for ease of maintenance.
- **Power:** 400V operation voltage : 12kWh/d power consumption.
- **Control:** Microprocessor Units with LAM200 Air Compressors
- **Internal:** Air Lift water transfer with HD340 disc diffusers.
- **Temperature:** Air Conditioner and cooling fans as standard
- **Water Quality:** Secondary Effluent with Nutrient reduction

Fields of application

Australia

An Australian mining company uses a KLARO container system in order to clean the resulting waste water from the mine. It also cleans the waste water from workers' accommodation.



Oman

A KLARO container wastewater treatment system is also in use in a factory in Oman.

In this location, the system is exposed to high temperatures which are successfully counterbalanced by the integrated cooling system. This means that operation is not affected.



KLARO container systems are suitable for...

- Working camps
- Tourist camps
- Mining camps
- Military camps
- Quarries
- Logging camps
- Mobile roadworks
- Research camps
- etc.

KLARO GmbH
Spitzwegstraße 63
95447 Bayreuth

Telephone: +49(0)921 16279-0
Fax: +49(0)921 16279-100
E-Mail: info@klaro.eu



part of the GRAF *group*

More information at
www.en.klaro.eu



Technical hotline
+49(0)921 16279-340

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