Something you can rely on:

TIA COMPACTmini

The fully biological Wastewater Treatment Plant for small municipalities.

Egypt - Hotel

Little effort, many applications

Small municipalities, hospitals or hotel complexes

The fully biological Wastewater Treatment Plant TIA COMPACTmini has been developed particularly for the wastewater treatment in municipalities with a connection size of **300** to **3000 Population Equivalents** (p.e.). With simple modifications plants for up to 6000 p.e. can be realized.

TIA COMPACTmini is an ultramodern wastewater treatment plant for the decrease of COD/BOD as well as elimination of nitrogen. As a third treatment step the wastewater can be sterilized or treated in a membrane plant up to the point that it can be used as potable water.

TIA COMPACTmini can also be applied ideally as an extension of existing wastewater treatment plants.

Possible applications for TIA COMPACTmini are i.e. small municipalities (also as **replacement** or as **complement** for **pond systems**), hospitals and hotel complexes.

This standard plant has been developed for a cost-effective treatment of wastewater, using well-established machine and process control technology as well as high-quality materials. It has been optimized with focus on **energy efficiency**: e.g. the fine bubble membrane aeration and the automatic switch and control system of the aeration allow values of approximately 10 kWh/ (p.e. x year).

By use of simple rectangular concrete basins only, the single steps are **easily** and **rapidly completed** to a fully functional, low space requiring wastewater treatment plant.

The required time for manual operation has been reduced extremely in comparison to conventional plants. Solely the screenings, fat and sand well as surplus sludge must be removed by operators as needed from time to time.

Mali - Hospital

Germany - Municipality

Complex processes, simple operating:

Everything optimized for an easy application

Treatment steps

- Strainer (optional – supplied manually or automatically operated)
- Sand trap (to be emptied manually)
- Fat trap (to be emptied manually)
- Activated sludge reactor
- ARS*-Reactor for stabilization and storage of activated sludge-
- Sedimentation (optional)
- Desinfection (optional)

Technology

- All components from German brand manufacturers
- High-quality rotary blower with complex noise prevention
- Stainless steel pipelines
- Weatherproof and lockable control cabinet
- Fully automatic operation

Documentation

- Installation manual
- Operation manual
- Operation log

* ARS is a process for sludge stabilization and stabilization of the biological process, developed by TIA and the Technical University TUHH of Hamburg Harburg, Germany

Advantages

- Well-known high TIA quality
- Made in Germany
- Technical calculations of wastewater according to German Standard (ATV)
- Low investment costs
- Very low time for operation
- Low operational cost
- Easily expandible
- Energy efficiency
- Small footprint

Performence data

	up to 500 PE	up to 750 PE	up to 1000 PE	up to 1500 PE	up to 2000 PE	up to 3000 PE
Inflow	75 -100 m³/d	100 - 150 m³/d	150 - 200 m³/d	200 - 300 m³/d	300 - 400 m³/d	400 - 600 m³/d
space requirements	30 m^2	40 m^2	50 m^2	65 m^2	80 m^2	120 m^2
Outflow (BOD_5)	‹10 mg/l	‹10 mg/l	‹10 mg/l	‹10 mg/l	‹10 mg/l	‹10 mg/l

Nitrificaton/Denitrification, Phosphorous reduction possible on demand
Disinfection: COMPACTmini can be strengthened with all available processes for killing of germs.

Ukraine - Municipality

Germany - Municipality

It clearly goes without saying:

we will gladly make you a suitable offer.

TIA Technologien zur Industrie-Abwasser-Behandlung GmbH

Bergkoppel 3
23881 Breitenfelde
Deutschland

Tel. +49 (0) 4542 8581-0
Fax +49 (0) 4542 8581-99

www.tia-abwasser.de
info@tia-abwasser.de

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COMPACTmini · Rev. 2018