

SIMPLY CLEAN WATER.



SBR WASTEWATER
TREATMENT PLANTS

AQUAmax[®] PROFESSIONAL

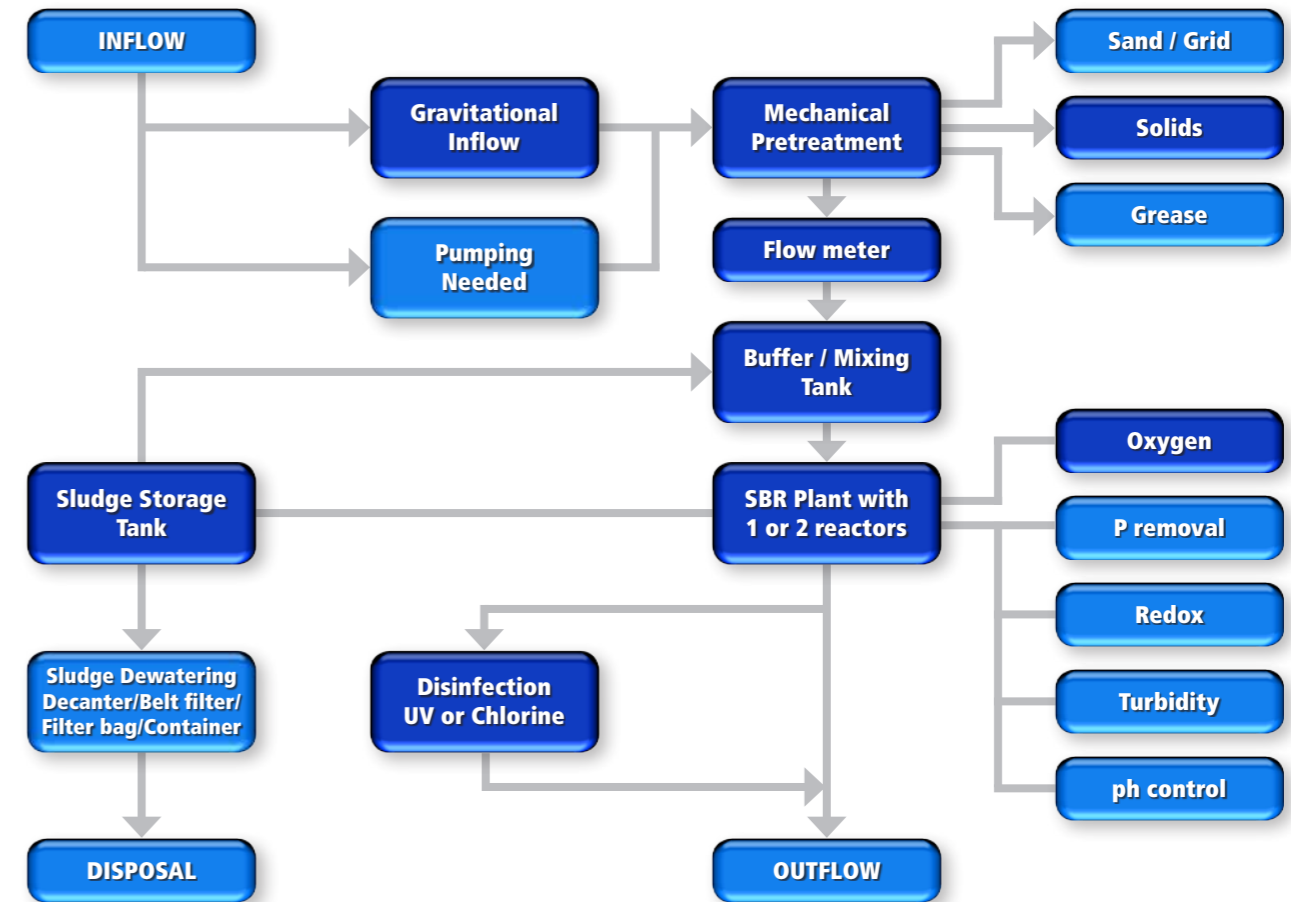
Well-engineered technical solutions
for treatment of wastewater
from residential areas, villages, hotels
and commercial applications.



Effective. Innovative. Sustainable.

Since the 1990th:
 ATB wastewater treatment plants. Worldwide.

The AQUAmax® PROFESSIONAL Configuration Guide:
 Configure your wastewater treatment plant - in just a few clicks!



A reliable partner in developing and implementing complete wastewater treatment solutions.

ATB is a young and fast growing, dynamic company within the wastewater treatment sector. During our 13 years of activity we developed benchmark products for the treatment of domestic wastewater. The name AQUAmax® stands for innovative engineering and reliable products and solutions.

Additionally to our standard plants with a range of up to 500PT, ATB also became in the last years an international player in the midsized decentralized

wastewater treatment sector. Here, we understand ourselves as a product independent engineering company for treatment plants with a capacity of up to 10.000PT.

We are not selling just a product in this field, we are offering you solutions - custom-made and within your available budget. Our scope of supply and services includes all the steps starting with the complete technical dimensioning of the plant – from the inlet pump station,

over the mechanical pre-treatment to the biological treatment step till the treatment of excess sludge, the in-house engineering and production of the control unit of the plant (where all our know-how counts), the purchase of other materials and products from our different sub-suppliers and the detailed control and preparation of all goods before being delivered to you. A well prepared documentation makes our package complete.

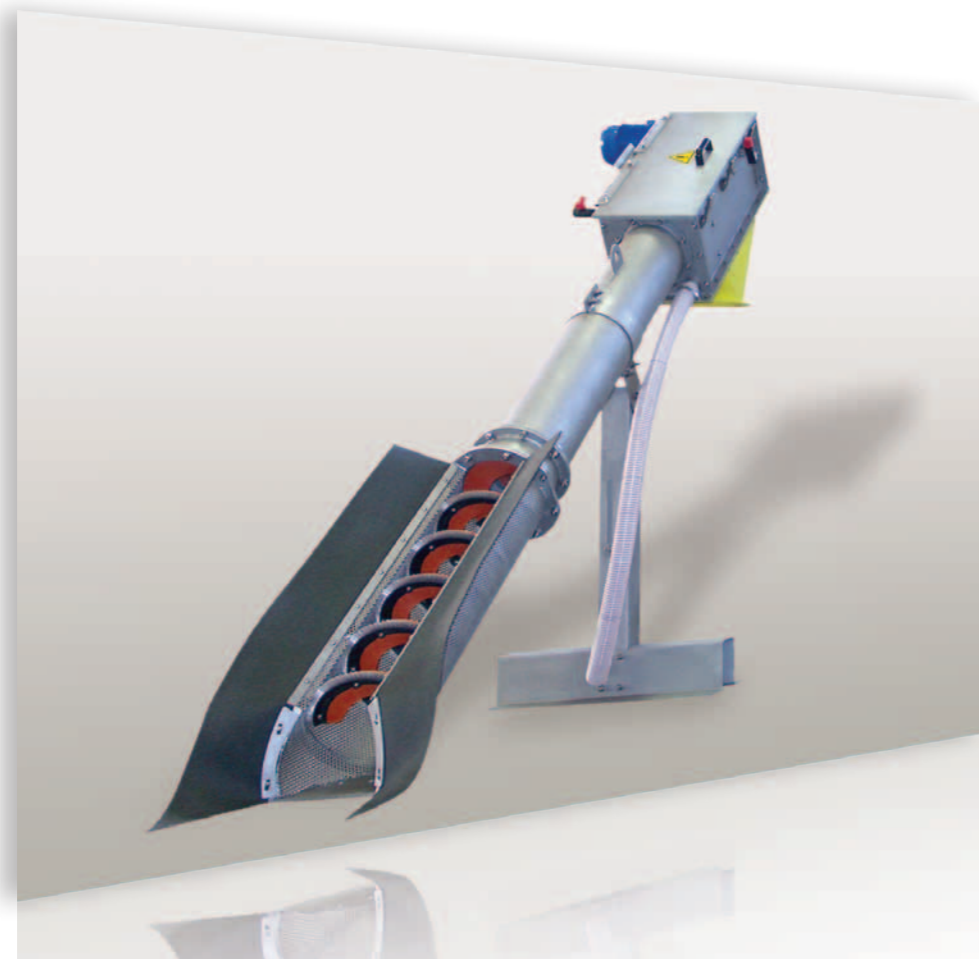
The core for reliable process control. A perfect match between software and hardware.

Every single AQUAmax® PROFESSIONAL plant is individually designed depending on the project requirements. This individuality is also given for the design of the central control panel. Here is where all our engineering know-how counts. In-house design: for the control unit and for the running software. The professional control system operates the PROFESSIONAL plant completely automatically. Touch-panel for the process visualisation and control, WAN interface, automatic and manual operation mode, alarm

logbook is standard equipment. The system can be equipped with a series of additional functions, like automatic control of the mechanical pre-treatment unit, additional control for P-removal unit, flow metering, etc., depending on our customers requirements.



Pre-treatment with the AQUAmax[®] PROFESSIONAL system



Aeration with the AQUAmax[®] PROFESSIONAL system



Removing of solids before further treatment

Solids contained in the raw wastewater have to be removed before entering the following treatment units. This is done by means of mechanical pre-treatment units. Depending on the type inflow and on the plant size different pre-treatment solutions can be supplied. Simple units for simply removing and compacting solids, up to combined machines with solid, grease and sand removal ready build in one compact unit. The quality products employed by ATB offer our customers reliable operation and long service life.



Aeration and mixing of the pre-treated water

For the aeration and mixing of the SBR tanks, ATB is using a unique and special designed direct driven floating and mixing unit. Main advantages of this aeration system are a high and constant oxygen transfer and a perfect mixing of the water even in rectangular shaped tanks. No use of gearboxes quaranty a high lifetime for the aeration and mixing unit. As our main purpose is to offer custom made solutions, on request we also supply other aeration systems like bottom aerators or blowers with membrane aeration.



Decanting with the AQUAmax[®] PROFESSIONAL system



Sludge treatment with the AQUAmax[®] PROFESSIONAL system



Crucial for best treatment results

Optimal discharge of wastewater after the treatment is crucial for accomplishing reliable good treatment results in any SBR system.

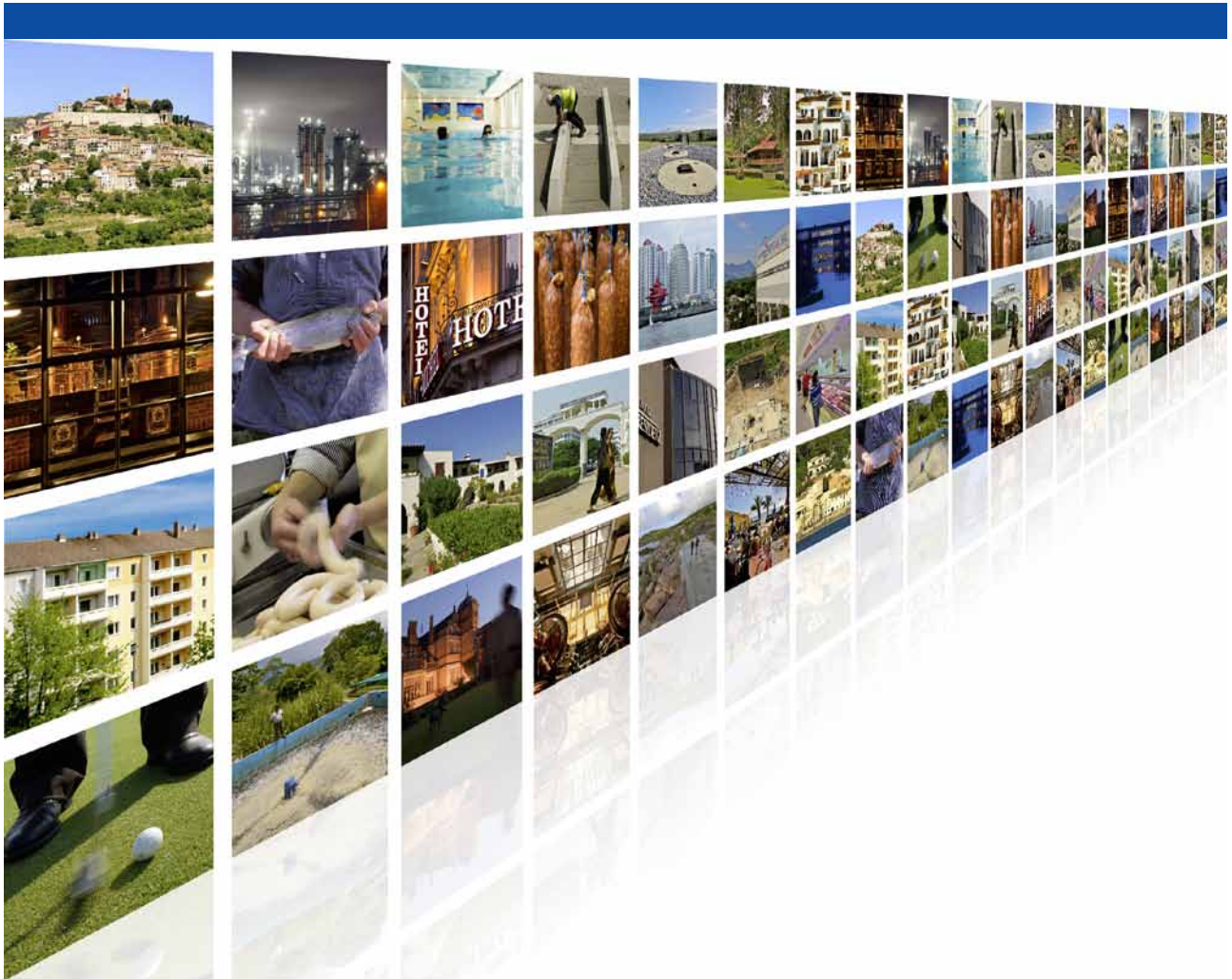
The floating decanters employed by ATB are designed with the specific purpose of discharging the subsurface laminar layer of clean water without disturbing the sludge blanket or floatables. Gravity and pump options are available with mechanical actuation to close the weir during aeration and a mixing phase preventing wastewater or activated sludge entering the discharge pipe.



Removing the excess sludge out of the reactor

Typical for a biological treatment process is the so-called "excess sludge". As the excess sludge is continuously growing in the reactors during the treatment phase it has to be removed out of the reactor at the end of each treatment cycle to an external sludge storage tank. If mechanical dewatering of excess sludge is a demand, different treatment options - depending on plant size and customers requirements - like dewatering containers, bag dewatering units, belt filter or decanter can be supplied.





AQUAmax® wastewater treatment systems. A brandmark of ATB Umwelttechnologien GmbH.

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