



Mature technical solutions for the treatment of wastewater from residential areas, villages, hotels and commercial applications



CONTENTS

0

• ATB firm's historyPago	e 3	Sausage and cold meat factory, GermanyF	Page 19
ATB branches and partners worldwidePage	e 4	Camping sit, Belgium	age 20
• AQUAmax® PROFESSIONAL plant engineeringPage	e 6	Winter sport facility, Lithuania	age 21
• AQUA <i>max</i> ® PROFESSIONAL functional proceduresPage	8/9	• Chwalimki village, Poland	Page 22
Project referencesPage	e 10	Coal mine, Mozambique	Page 23
Gas-fired power plant, Trinidad and TobagoPage	e 11	Company building, Vietnam	Page 24
Cheese dairy, FrancePage	e 12	University, India	Page 25
Nuclear power station, BelgiumPage	e 13	Coffee finca, Mexico	Page 26
Old people's home, MexicoPage	e 14	• Caravan/holiday house park, Great Britain	Page 27
Home for the handicapped, FrancePage	e 15	• Camarasu village, Romania	'age 28
Hotel/restaurant, FrancePage	e 16	• Durău village, RomaniaF	'age 29
Self-catering house, GermanyPage	e 17	Lacusteni village, Romania	'age 30
Tourist centre, CroatiaPage	e 18	Police headquarters, Jordan	'age 31
	THE RESERVE TO SHARE THE PARTY OF THE PARTY		

PASSIONATE ABOUT WASTEWATER TREATMENT





ATB company base in Porta Westfalica (Germany)

Nothing can replace experience...

Who are we and what do we do?

The ATB Umwelttechnologien GmbH, based in Porta Westfalica, was founded in 1999 by the Baumann family. We are concerned almost exclusively with the development/production and the marketing of biological small wastewater treatment plants and small-scale wastewater treatment plants as well as associated peripheries (spare parts shop, maintenance, laboratory service). Since the beginning of 2014 we are, in addition, manufacturing plastic components for wastewater treatment plants/wastewater engineering in the rotation process. At our site in Weißensee/Thüringen we are producing modern multi-chamber tanks made from precast concrete components (with this we are in a position to supply complete wastewater plants) and collecting pits for stormwater/wastewater.

In our standard product portfolio are numbered the small wastewater treatment plants PUROO®, AQUAmax® BASIC/CLASSIC, APURIS® and McWater® as well as wastewater treatment plants of the AQUAmax® PROFESSIONAL series.

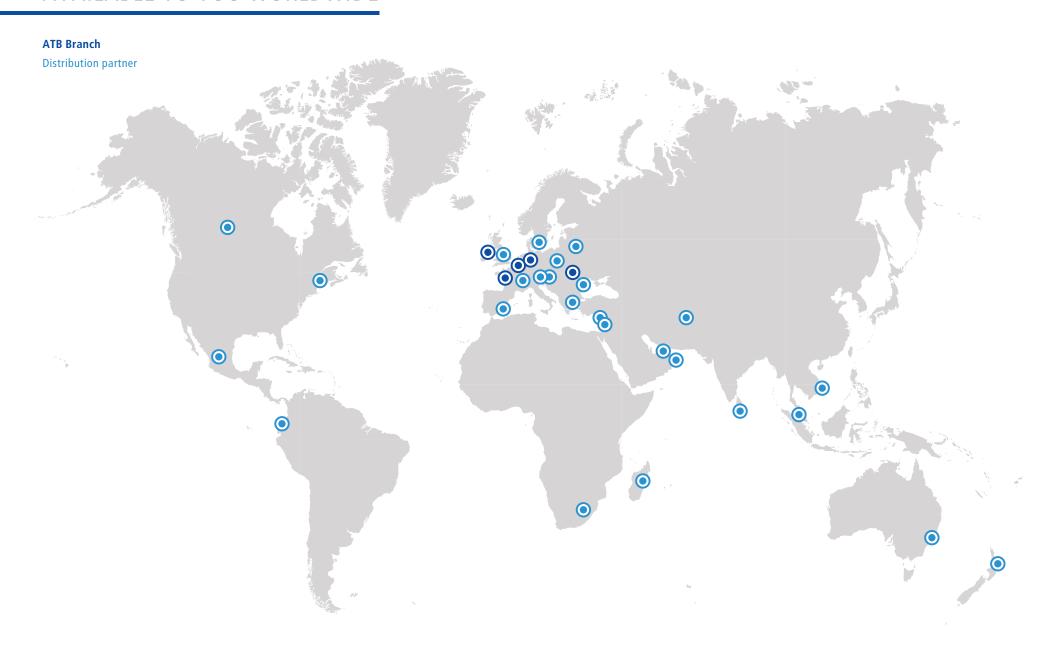
The AOUAmax® series

At that time everything started with the idea of designing small wastewater treatment plants for installation partners and operators which were to be as simple as possible. After many long nights and weeks full of research, conceptual designs, the first equipment tests in the garden pond and renewed modifications the AQUAmax® small wastewater treatment plant was finally ready. For the time being, configured for private households only, the concept was developed steadily further and today covers many professional applications from the commercial field (hotel/catering/foodstuffs processing) as well as wastewater treatment for residential areas and municipalities.

On the following pages we would like to give you a small overview of the employment possibilities of our AQUAmax® PROFESSIONAL wastewater treatment plants.

Enjoy the reading!

AVAILABLE TO YOU WORLDWIDE



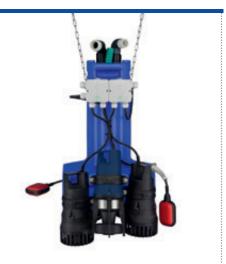


ATB Branches and distribution partners

Naturally, in this sector, there are always a few changes.

The current listing of our branches and partners as well as complete contact data can be found on our website www.atbwater.com

SYSTEMS ENGINEERING



AQUAmax® PROFESSIONAL GZ 1-16 For 1-16 PT



AQUAmax® PROFESSIONAL GZ 17-50 For 17-50 PT



AQUAmax® PROFESSIONAL XL



AQUAmax® PROFESSIONAL XLA/XLAM For 300-1,000 PT

Real professionals go for the AQUA*max*® PROFESSIONAL series

Universally deployable

The AQUAmax® PROFESSIONAL series is suitable for almost every biologically degradable wastewater.

• Flexible - also with retrofitting

Independent of material and geometry the plants can be installed in very nearly all types of tank – from concrete via plastic up to GRP tanks.

• First-class discharge values

AQUA*max*® PROFESSIONAL plants are dimensioned according to the project-specific data. The configuration is effected depending on required treatment performance.

Disinfection

Optional: secure disinfection through UV after-treatment or chlorination.

Phosphate precipitation

The pro*Control*® control system is prepared for the activation of an external phosphate precipitation.

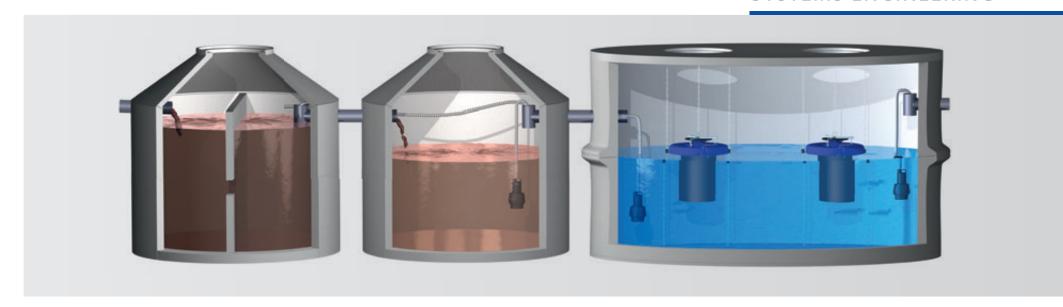
Future-assured

Through the AQUA*max*® modular construction system your plant is at all times expandable, through software updates at all times adaptable to the best available technology.

• Experience, security & service

The top-selling SBR wastewater treatment plant in Germany, installed thousands of times worldwide!

SYSTEMS ENGINEERING



Solutions for almost every situation and requirement

In collaboration with test institutes and universities at home and abroad. the AQUAmax® PROFESSIONAL wastewater treatment system has been developed on the basis of our market-leading small wastewater treatment plants AQUAmax® BASIC & CLASSIC, especially for users from the commercial sector as well as for smaller communities.

It functions on the established and proven SBR process, which is employed successfully in full scale engineering and also with small wastewater treatment plants. On this basis the AQUAmax® PROFESSIONAL system enables high quality, extremely economic solutions for almost every professional requirement.

The AQUAmax® PROFESSIONAL series was conceived specially for highly loaded wastewater from hotel, catering, commercial and food processing operations as well as for residential areas and smaller villages.

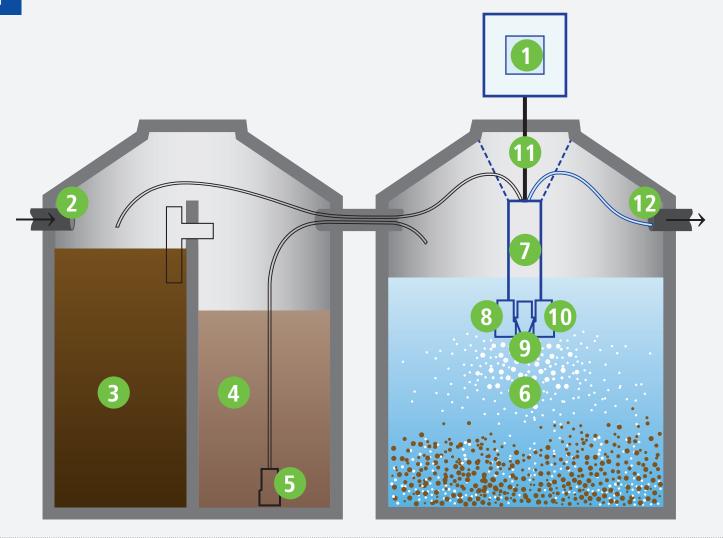
Our standardised AQUAmax® PROFESSIONAL systems engineering covers the following areas:

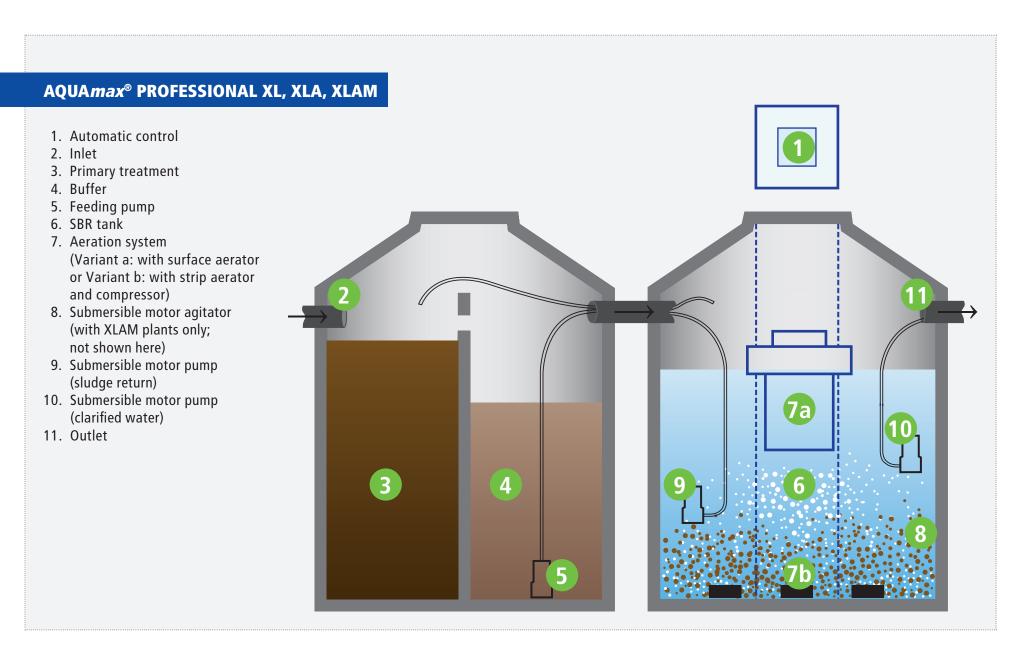
 G-plants Applications up to 50 PT XL-plants Applications up to 400 PT Applications up to 1,000 PT XLA-/XLAM-plants

Furthermore, we offer our XXL plants for larger applications; these are planned project-specific.

AQUA*max*® PROFESSIONAL G

- 1. Automatic control
- 2. Inlet
- 3. Primary treatment
- 4. Buffer
- 5. Feeding pump
- 6. SBR tank
- 7. Carrier frame
- 8. Submersible motor pump (clarified water)
- 9. Submersible motor aerator
- 10. Submersible motor pump (sludge return)
- 11. Control cable
- 12. Outlet





PROJECT REFERENCES





Our plants in operation

In order to be able to create a better understanding of the application possibilities of our wastewater treatment plant systems, we have decided, along with the technical explanations, to present you with a selection of our already realised projects – with different basic prerequisites, specifications and in various sizes.

Our AQUAmax® PROFESSIONAL series is standardised; this, however, does not eliminate individual adjustments to the respective conditions – quite the contrary!







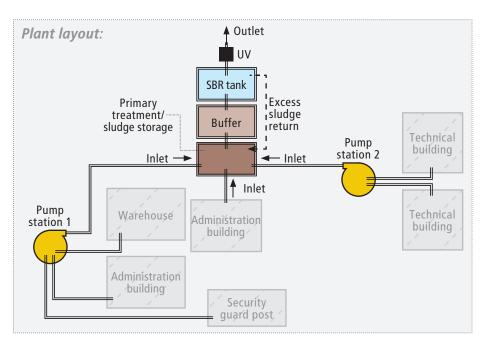
The project at a glance

Domestic wastewater Category Location Trinidad and Tobago

Installed plant AQUAmax® PROFESSIONAL G

Connection value 40 PT 6.0 m³/day **Wastewater quantity** BOD, pollutant load 2.4 kg/day Commissioning 2010

A wastewater treatment plant was installed on the site of a gas-fired power plant on Trinidad. Two pump stations convey the wastewater to be treated from various buildings to the wastewater treatment plant. A UV unit for disinfection was retrofitted in 2013.



CHEESE DAIRY [60 PT]





The project at a glance

Food processing Category

Location Le Grand-Bornand, France

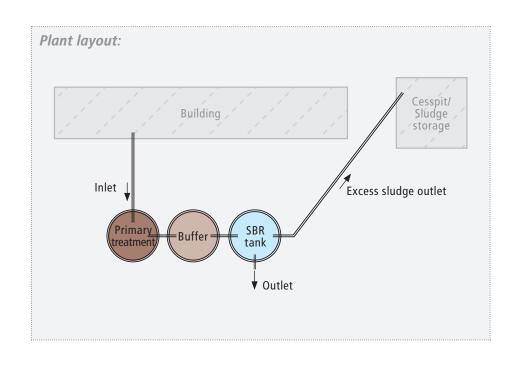
Installed plant AQUAmax® PROFESSIONAL XL1-100

Connection value 60 PT

1.8 m³/day **Wastewater quantity** BOD, pollutant load 3.6 kg/day

Commissioning 2010

The wastewater treatment plant with aerated primary treatment and separate sludge storage treats the production wastewater and the domestic wastewater of the employees of a cheese dairy located in the French Rhône-Alpes region. An already present cesspit is used as sludge storage.



NUCLEAR POWER STATION [60-75 PT]





The project at a glance

Category Domestic wastewater

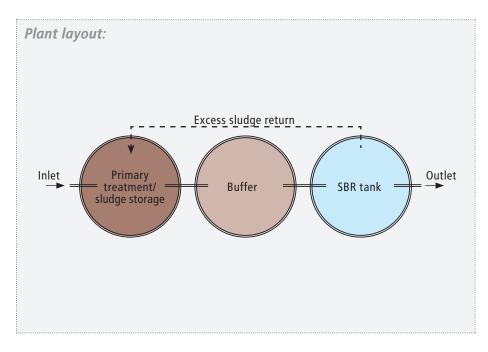
Location Huy, Belgium

Installed plant AQUAmax® PROFESSIONAL XL1-100

Connection value respectively 60-75 PT **Wastewater quantity** respectively 11.25 m³/day BOD, pollutant load respectively 4.5 kg/day

Commissioning 2011

A wastewater treatment plant was installed at each of two locations on the site of a nuclear power station in Huy on the River Maas.



OLD PEOPLE'S HOME [75 PT]





The project at a glance

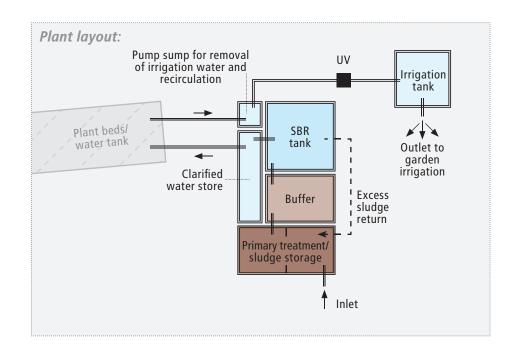
Category Domestic wastewater Location Mexico City, Mexico

Installed plant AQUAmax® PROFESSIONAL XL1-100

75 PT **Connection value**

Wastewater quantity 16.5 m³/day BOD, pollutant load 4.5 kg/day Commissioning 2010

The wastewater treatment plant treats the domestic wastewater of a complete care establishment (inhabitants, employees, kitchen, ...) and is connected with a subsequent irrigation unit. The outflowing treated wastewater is used for the irrigation of the on-site park with numerous plants.





HOME FOR THE HANDICAPPED [85 PT]





The project at a glance

Category Domestic wastewater Location

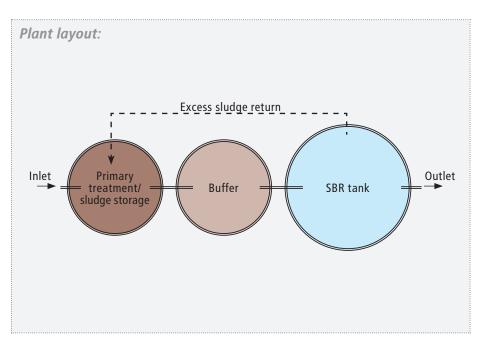
La Selle Craonnaise, France **Installed plant** AQUAmax® PROFESSIONAL XL1-100

Connection value 85 PT

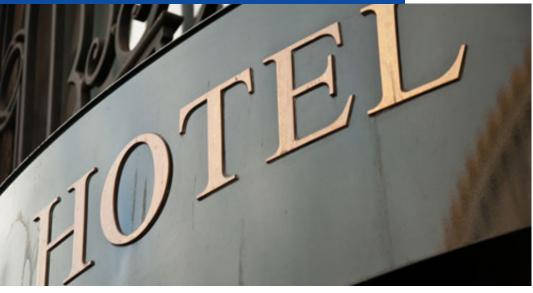
Wastewater quantity 12.75 m³/day BOD₅ pollutant load 5.1 kg/day

Commissioning 2011

The three tank plant treats the domestic wastewater of the complete establishment (inhabitants, employees, kitchen) in Northwest France.



HOTEL/RESTAURANT [85 PT]





The project at a glance

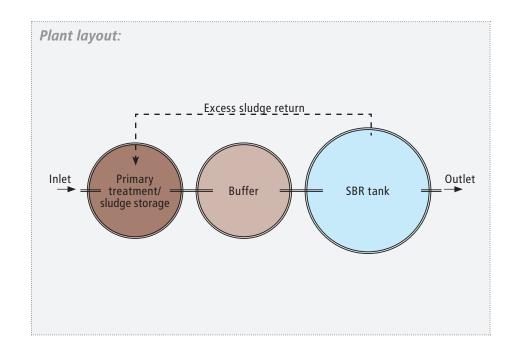
Category Gastronomy Location Cuers, France

Installed plant AQUAmax® PROFESSIONAL XL1-100

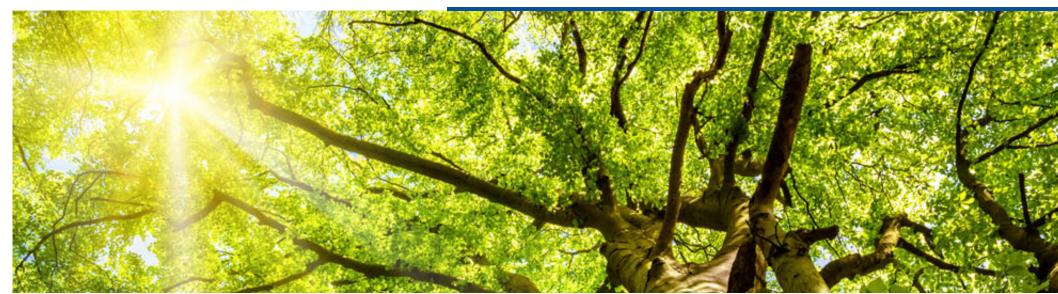
Connection value 85 PT

Wastewater quantity 12.75 m³/day BOD₅ pollutant load 5.1 kg/day Commissioning 2011

The wastewater treatment plant treats the domestic wastewater of the guests and employees of a hotel/restaurant on the Côte d'Azur.



SELF-CATERING HOUSE & CAMPING SITE [95 PT]



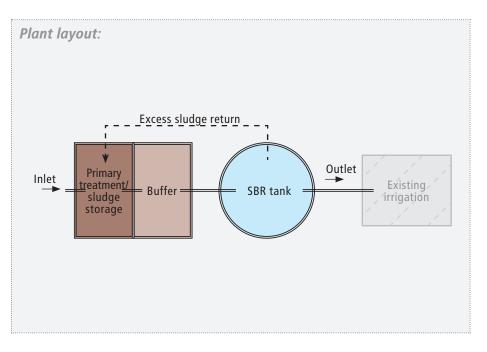
The project at a glance

Tourism & Leisure Category Location Dinslaken, Germany

Installed plant AQUAmax® PROFESSIONAL XL1-100

95 PT **Connection value** 12 m³/day **Wastewater quantity** BOD, pollutant load 5.7 kg/day Commissioning 2012

In the northwest of the Ruhr area, on the lower part of the Lower Rhine, there is a selfcatering house with associated camping site which accommodates up to 93 persons. The domestic wastewater of the guests and the wastewater produced from cleaning activities, after treatment run off directly into an already available irrigation system.



TOURIST CENTRE: HOTEL/RESTAURANT/TRAVEL AGENCY [125 PT]





The project at a glance

Gastronomy & Tourism Category

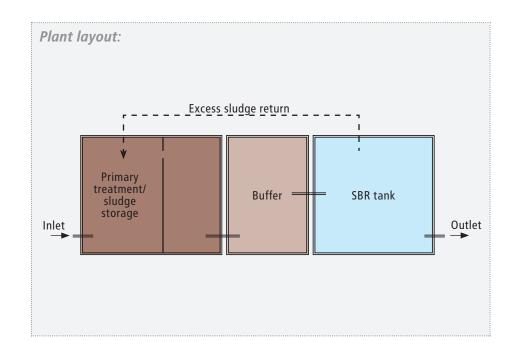
Location Slunj, Croatia

Installed plant AQUAmax® PROFESSIONAL XL1-125

Connection value 125 PT 20 m³/day **Wastewater quantity** BOD, pollutant load 7.5 kg/day Commissioning 2012

Three situations – one solution:

In the heart of Croatia there is a tourist centre whose hotel and travel agency with adjoining restaurant are one. Our wastewater treatment technology treats the domestic wastewater of the guests and staff as well as the wastewater of the hotel/restaurant operation.



SAUSAGE AND COLD MEAT FACTORY [200 PT]







The project at a glance

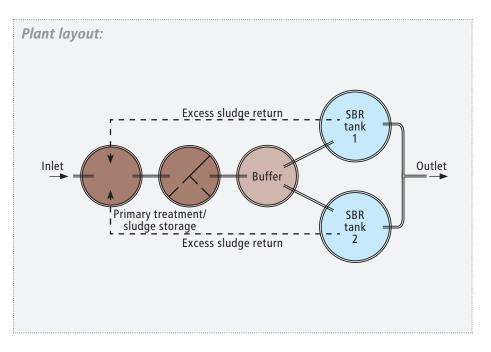
Category Food processing

Location Westerwalsede, Germany

Installed plant AQUAmax® PROFESSIONAL XL2-200

Connection value 200 PT 10 m³/day **Wastewater quantity** BOD, pollutant load 12 kg/day Commissioning 2008

The two-line wastewater treatment plant treats the domestic wastewater of the employees and the production wastewater of a sausage and cold meat factory in the rural district of Rotenburg/Wümme.



CAMPING SITE [200 PT]





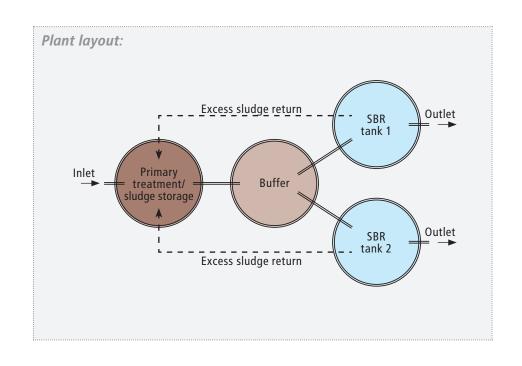
The project at a glance

Category Tourism & Leisure Location Büllingen, Belgium

Installed plant AQUAmax® PROFESSIONAL XL2-200

Connection value 200 PT **Wastewater quantity** 30 m³/day BOD, pollutant load 12 kg/day Commissioning 2012

In the Belgium town of Büllingen, near the German border, there is a camping site situated in a woods. The two-line wastewater treatment plant treats the complete wastewater of the site.







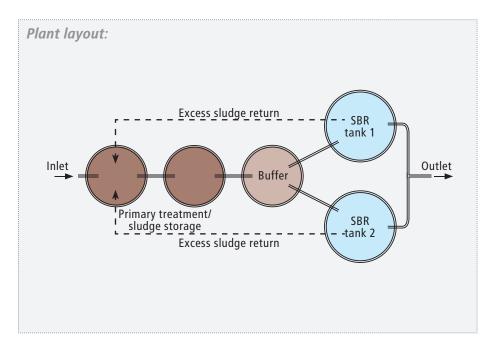
The project at a glance

Tourism & Leisure Category Location Druskininkai, Lithuania

Installed plant AQUAmax® PROFESSIONAL XL2-200

Connection value 200 PT 35 m³/day **Wastewater quantity** BOD, pollutant load 12 kg/day Commissioning 2010

In South Lithuania, in a scenically attractive site amongst moraine hummocks in a forest landscape, is located a unique winter sport and entertainment complex. The wastewater treatment plant was designed for the following details: 370 seats in the restaurant, 100 seats in the convenience restaurant, maximum of 900 expected skiers/day and 50 employees.



CHWALIMKI VILLAGE [225 PT]







The project at a glance

Category Domestic/municipal wastewater

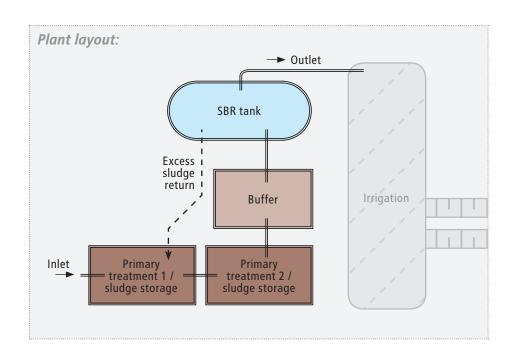
Location Chwalimki, Poland

Installed plant AQUAmax® PROFESSIONAL XL1-200

Connection value 225 PT **Wastewater quantity** 27 m³/day BOD, pollutant load 13,5 kg/day

Commissioning 2012

The installed wastewater treatment plant treats the municipal wastewater of the Polish village of Chwalimki in the Pomeranian lake region.







The project at a glance

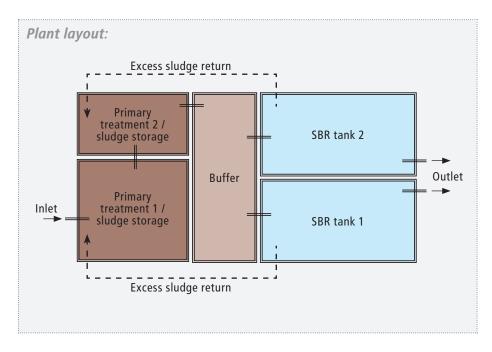
Category Domestic wastewater Location Nampula, Mozambique

Installed plant AQUAmax® PROFESSIONAL XL2-500

Connection value 500 PT **Wastewater quantity** 75 m³/day BOD, pollutant load 30 kg/day Commissioning 2010

Under Africa's sun...

The wastewater treatment plant is located in a coal mine and treats the domestic wastewater of the camp employees. The construction of the plant was supported with international aid money.



COMPANY BUILDING/PREMISES [500 PT]







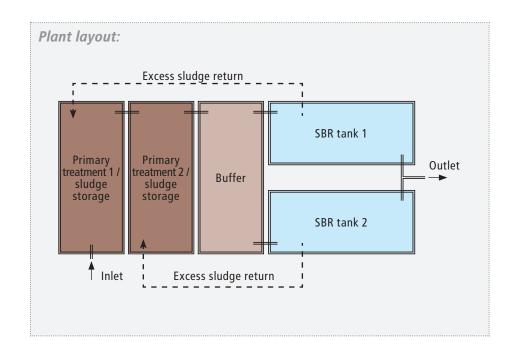
The project at a glance

Domestic wastewater Category Location Hai Phong, Vietnam

Installed plant AQUAmax® PROFESSIONAL XL2-500

500 PT **Connection value Wastewater quantity** 100 m³/day BOD, pollutant load 25 kg/day Commissioning 2007/2008

A wastewater treatment plant was required for a Vietnamese company located in the industrial area Hai Phong, in order to treat the domestic wastewater of the employees. In order also to be able to give an as high as possible flexibility in the future with regard to the location, a mobile container plant (a wastewater treatment plant made from several surface erected steel tanks) was employed.









The project at a glance

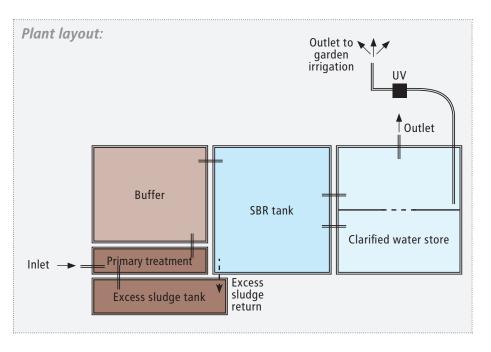
Domestic wastewater Category

Location Chennai, India

Installed plant AQUAmax® PROFESSIONAL XXL1-600

Connection value 600 PT 90 m³/day **Wastewater quantity** BOD, pollutant load 36 kg/day Commissioning 2006

The plant with integrated UV disinfection daily treats up to 90 cubic metres of wastewater which, following treatment in an intermediate tank with a volume of ca. 60 cubic metres, is stored. The processed wastewater is used for the irrigation of green and garden areas of the university, thus the very long dry phases are also well bridged.



COFFEE FINCA [1,000 PT]





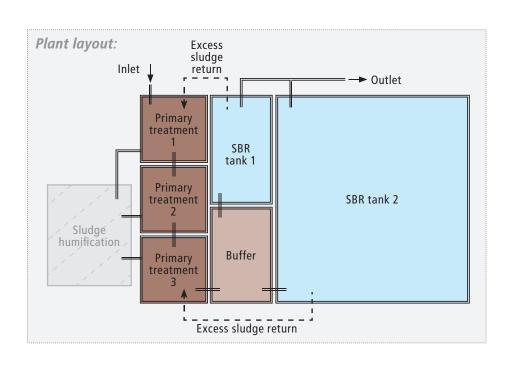
The project at a glance

Food processing Category Location Tapachula, Mexico

Installed plant AQUAmax® PROFESSIONAL XXL1-1.000

Connection value 1,000 PT **Wastewater quantity** 145 m³/day BOD, pollutant load 60 kg/day Commissioning 2006

The smaller SBR aeration tank runs continuously throughout the year and is designed for the domestic wastewater of the regular staff (ca. 150 PT). During the harvest time both the domestic wastewater of the additionally employed personnel and also the production wastewater are clarified in a second tank. A pH neutralization is integrated in the wastewater treatment plant, a humification of the sludge on a plant bed tops off the process.





CARAVAN PARK [1,000 PT]



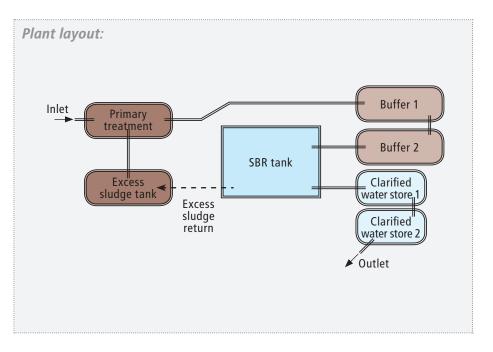
The project at a glance

Tourism & Leisure Category

Location Grassington Skipton, Great Britain **Installed plant** AQUAmax® PROFESSIONAL XXL1-1.000

Connection value 1,000 PT **Wastewater quantity** 150 m³/day BOD, pollutant load 60 kg/day Commissioning 2005

The caravan park is located in North Yorkshire. The complete domestic wastewater of the park is treated by a SBR plant, which is designed for 1,000 PT. Due to the limited acceptance capacity of the local percolation field a plastic tank with throttled outlet was employed for the clarified water discharge.



CAMARASU VILLAGE [1,000 PT]



The project at a glance

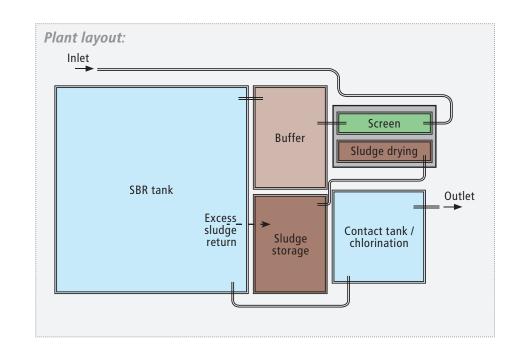
Domestic/municipal wastewater Category

Location Camarasu, Romania

Installed plant AQUAmax® PROFESSIONAL XXL1-1.000

Connection value 1,000 PT 150 m³/day **Wastewater quantity** BOD, pollutant load 60 kg/day Commissioning 2012

The wastewater treatment plant for the municipal wastewater of the village is designed for 1,000 PT. After running through the mechanical and biological treatment units the water is chlorinated and fed away to discharge. In addition, there is a sludge dewatering unit available for excess sludge.











The project at a glance

Category Domestic/municipal wastewater

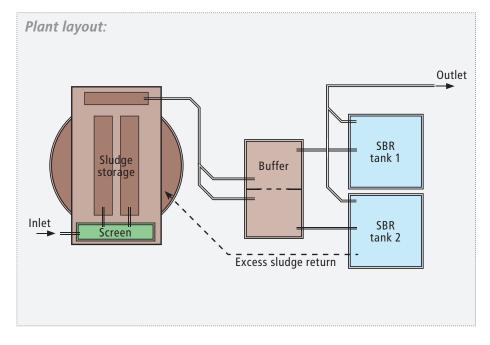
Location Durău, Romania

Installed plant AQUAmax® PROFESSIONAL XXL2-1.250

Connection value 1,250 PT **Wastewater quantity** 187,5 m³/day BOD, pollutant load 75 kg/day Commissioning 2008

The village of Durău, recreation resort and ski area, particularly at the winter time, attracts sports enthusiastic holidaymakers. The installed wastewater treatment plant has therefore to master, in addition to the regular wastewater yield, also the seasonal peak.

For the wastewater treatment plant, in part old existing concrete tanks were lined with plastic and then used. In addition a mechanical screen and a sludge bag drainage were available.



LACUSTENI VILLAGE [1,500 PT]





The project at a glance

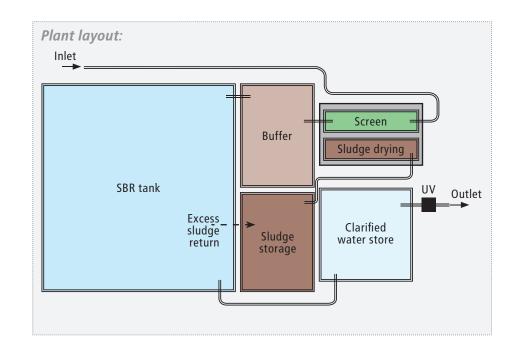
Category Domestic/municipal wastewater

Location Lacusteni, Romania

Installed plant AQUAmax® PROFESSIONAL XXL1-1.500

Connection value 1,500 PT **Wastewater quantity** 225 m³/day BOD, pollutant load 90 kg/day Commissioning 2011

The wastewater treatment plant for the village of Lacusteni, located in southwest Romania, is equipped with mechanical, biological and chemical treatment stages as well as with a UV unit and a sludge dewatering unit.











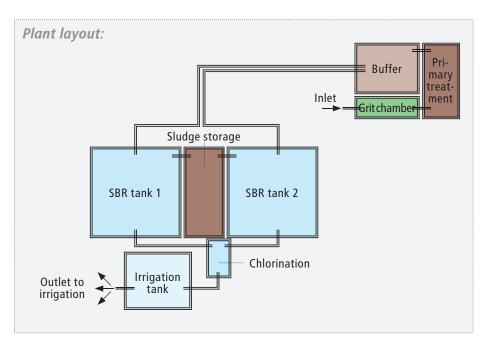
The project at a glance

Domestic wastewater Category Location Amman, Jordan

Installed plant AQUAmax® PROFESSIONAL XXL2AM-1870

Connection value 1,870 PT 150 m³/day **Wastewater quantity** BOD, pollutant load 112 kg/day Commissioning 2013-2014

This two-line wastewater treatment plant is designed for 1,870 PT and was installed on the premises of a police headquarters. The wastewater is pre-treated by a grit chamber, then follows the primary treatment, a water storage facility, two SBR tanks and a sludge storage tank. In addition, a chlorination for disinfection has been integrated in order to be able to reuse the treated water for irrigation purposes.



ATB – award winning...

Environment Prize 1999 of the German Federal State of Mecklenburg-Vorpommern • Environment Prize Austria 2001 • Founder Champion 2002 • OWL Innovation Prize 2003 • Financial Times Germany "Potential Innovation 2004" "Finalist" Entrepreneur of the Year 2004, 2005 and 2006 • "Finalist" Grand Prize of Small and Medium-sized Businesses 2007 "Winner" GreenTec-Awards 2014, Category Water and Sewage



ATB WATER GmbH

Südstraße 2 32457 Porta Westfalica Germany

Phone: +49 5731 30230-0 Fax: +49 5731 30230-30 E-mail: info@atbwater.com Website: www.atbwater.com





