

Effective. Innovative. Sustainable.





AQUAmax® CLASSIC: the flexible solution for up to 50 PT or 7.5 m³ wastewater per day*!

You live in the countryside, unconnected to a municipal sewer network and are alone responsible for the treatment of your wastewater? No problem - with an AQUAmax® an own small wastewater treatment plant is simpler than you think ...!

from the house into the wastewater treatment plant and a system to discharge the treated wastewater into the open countryside. **Everything else is dealt with for you automatically by the** Using a patented flushing surge the pump and pipe system are cleaned of AQUAmax®. Guaranteed!

Top treatment performance

Up to 99% treatment performance in only 8 hours!

The AQUAmax® treats the incoming wastewater in 3 cycles per day, each of which lasts for 8 hours.

First, the wastewater reaches the preliminary settling stage, followed then by the 4-phase cycle:

1. Charging phase

The water collected in the preliminary settling stage is passed into the treat-ment tank.

2. Treatment phase

The wastewater is treated in the 6 hour long treatment phase. Here, agitation, aeration and intervals

3. Settling phase

During the settling phase the activated sludge settles at the bottom of

4. Discharge phase

The now clarified water is pumped



Expandable! 🗸 The AQUAmax® CLASSIC can be expanded individually through the

unique modular system. Secure and quiet \checkmark

All units are securely installed in the tank and not inside the house.

Durable

A special architecture makes the AQUAmax® CLASSIC particularly durable.

Future-assured

Always up-to-date through upgrades of the control system software.

residual sludge before the pumping out

process. This protects the environment and relieves the available percolation.

Deutsches Patent: DE 100 57 378

Submersible motor aerator for fine-

bubble aeration and gentle stirring

in the treatment tank – developed

specially for employ-ment in small

Low maintenance and spare part costs ✓

plants installed worldwide. Less servicings, no high wear aerator.

First-class discharge values

Frame made from recyclable

friendly and light. 10 years guarantee!

plastic - stable, maintenance-

Significantly undercuts the required discharge values!

Experience

More than 45.000 wastewater treatment

Certified

Various international approvals and CE confirmity based on EN 12566-3 and therein described tests.

Comprehensive parts guarantee \checkmark

10 years for the frame, 24 months for all electrical and mechanical parts.

Flexible:



The AQUAmax® CLASSIC is available both as M-variant, for mounting on the tank dividing wall, and also as Z-variant for suspension in the tank, and can therefore be employed very flexibly.

UV disinfection

The AOUA max® CLASSIC models can be upgraded with the UV disinfection module AQUA*max*® BLUE without

The AQUAmax® BLUE UV disinfection system functions according to the example of natural sunlight and deactivates pathogenic micro-organisms in seconds - completely without healthand environment-hazarding chemical substances such as chlorine, chlorine dioxide and hypochloride or expensive membrane technology.

Even bacteria resistant to chlorine are killed reliably and safely using AQUAmax® BLUE. The result: process water in bathing water quality with small investment, low operating costs and minimum maintenance expenditure.

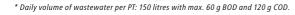


Special level switch

The unique special level switch AQUA*switch*®, integrated into the AQUAmax® pipe system, operates practically free of wear, cleans itself and switches with millimetre accuracy.

German patent: DE 10 2005 028 764.6





Prize-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 2005, »Winner« Grand Prize of Small and Medium-sized Businesses 2007, Innovation Quality Sea "TOP 100" 2006

AQUAmax® modular system awarded with the OWL-Innovation Prize:















AQUAmax® CLASSIC (M or Z)

Area of application Treatment of domestic wastewater

Approval C, D, D +H Nitrogen removal inclusive Total no. of inhabitants 4 - 50 Connected load 230 V / 50 Hz TÜV certificate

Explosion protection Treatment performance BOD₅: <= 15 mg/l (24 h composite sample) COD: <= 75 mg/l

NH₄N: <= 10 mg/l Ninora: <= 25 mg/l 10 years for the frame,

Guarantee 24 months for all electrical and mechanical parts

Control centre a Control®

Standard with every AQUAmax®!

- Comfortable, intuitive operation via 4 keys and illuminated display (just like a cell-phone!)
- Logbook function: over 500 messages are stored (alarms, modifications to run-times, power failures etc.). This eases service and reduces verifiably the resulting costs.
- Integrated bio-start-up phase.
 Original UVS® (voltage failure alarm) with accumulator – no battery change necessary.
- Automatic patented flushing function for pump cleaning – for less suspended solids in the effluent.
- With weaker loading or holidays fully automatic energy-saving mode.
- Spray water protection (IP65).

Accessories

Control centre pro*Control*® ®



Over and above a Control® this control offers the following possibilities:

- Connection possibilities for further level switches (backwater detection via additional flooding alarm etc.).
- Modification of cycle times by the service technician at
- · More tolerant towards over-voltages.
- · Expanded logbook and diagnostic functions
- · Read-out capability for logbook.
- · GSM transmission of up to 15 error messages possible (only with additional, special GSM module. On request); GSM transmission of logbook in prepara-

This control is embodied in AQUAmax® plants with UV or with phosphate removal.



UV disinfection/process water recovery AQUAmax® BLUE

The light required for the AQUAmax® BLUE UV disinfection is produced in a special UV radiator. The microorganisms are killed due to the wave-length of the light (253.7 nm). Without addition of chemicals! Meets the strict requirements of the EU bathing water

The costs of electricity of the UV disinfection are considerably lower than the comparable systems using membrane filtration.

The extended control system pro Control® is included in the scope of delivery.



AQUAmax® phosphate removal



Dosing module for flocculant consisting of an external cabinet, a special dosing pump and a filling level monitor. Activation takes place automatically via the aControl® or the pro Control®.



AQUA*max*® remote control



GSM transmission module (as accessory to a Control®). With this a fault in your wastewater treatment plant can be transmitted to your cell-phone via the GSM network.

- No special software required
- Simple adjustment via the cell-phone SIM card
- Transfer of the credit balance using prepaid cards
- Transmission of receiver quality
- · Variable alarm texts possible
- · Transmission of power failures; UVS® inclusive.

The system is adjusted simply via the telephone number store of the SIM card (card NOT included) and is immediately operational.

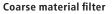
Additional uses: there are three further alarm inputs available which you can use domestically (e.g. for fire, water, break-in etc. - sensors are however not included)

Usable with almost all German mobile phone suppli-



Further AQUAmax® accessories

Switch cabinet for outside installation If the distance to the house is very large the control should be installed near the plant.



This filter is so designed that it can retain the majority of "problem substances" and can clean itself with each pump stroke. It is thus almost maintenancefree and increases the security of the pump and aerator.