Optimum wastewater treatment belongs to the best that you can do for the environment around your home if you have no sewer connection!

Therefore rely on the often distinguished, completely biological AQUAmax® small wastewater treatment plants – for remote houses, for new construction and retrofitting in houses, the optimum solution for every area of application.
AQUAmax® BASIC: the easy solution for up to 16 PT or 2.4 m³ wastewater per day*!

All that you need for a reliable wastewater treatment is one tank with three separated chambers hidden under the garden, an AQUAmax® installed in these, a sewer feed pipe 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 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.

1. Charging phase
The water collected in the preliminary settling stage is passed into the treatment tank.

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

3. Settling phase
During the settling phase the activated sludge settles at the bottom of the tank.

4. Discharge phase
The now clarified water is pumped out of the plant.

One pump less! ✓
Less electrical connections, less units, more security!

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

Durable ✓
A fine architecture makes the AQUAmax® BASIC especially durable.

Future-assured ✓
Always up-to-date through the AQUAmax® modular system.

Low maintenance and spare part costs ✓
Less servicing, no high wear aerator.

First-class discharge values ✓
Significantly undercuts the required discharge values!

Experience ✓
More than 45,000 wastewater treatment plants installed worldwide.

Certified ✓
Various international approvals and CE conformity based on EN 12566-3 and therein described tests.

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

Only 2 units! ✓
Due to the patented ball technology, the AQUAmax® BASIC needs one pump or magnetic valve less than conventional SBR plants. This means: less risk of failure, more security.

The principle: when the pump starts up, the wastewater is fed via a robust special valve into the charging pipe. This alternates – depending on the duration of pumping – between filling/sludge removal and pumping out.

Short pumping:
- triggers the filling phase of the SBR tank.

Long pumping:
- the special ball seals the charging or filling pipe after a few seconds, the water now gets into the clarified water outlet.

Thus, a large and heavy pump – namely an electrical unit – is completely replaced by a small ball!

EU patent: 04 010 152.9

Less electrical connections, more security!

The unique special level switch AQUAswitch®, 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

German patent: DE 100 57 378

German patent: DE 199 07 980

German patent: DE 10 2005 028 764.6

German patent: 04 010 152.9

* Daily volume of wastewater per PT: 150 litres with max. 60 g BOD and 120 g COD.

Special level switch

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Prize-winning...

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

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### Technical set

**AQUAmax® BASIC**

- **Area of application**: Treatment of domestic wastewater
- **Approval**: C, D, D +H
- **Nitrogen removal**: inclusive
- **Total no. of inhabitants**: 4 - 16
- **Connected load**: 230 V / 50 Hz
- **TÜV certificate**: Explosion protection
- **Treatment performance**
  - BOD₅: \( \leq 15 \text{ mg/l} \)
  - COD: \( \leq 75 \text{ mg/l} \)
  - \( \text{NH}_4\text{N} \): \( \leq 10 \text{ mg/l} \)
  - \( \text{Norg} \): \( \leq 25 \text{ mg/l} \)
- **Guarantee**: 10 years for the frame, 24 months for all electrical and mechanical parts

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### Accessories

**Control centre aControl®**

- 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).

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**Control centre proControl®**

- Over and above aControl® 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 any time.
  - More tolerant towards over-voltages.
  - Expanded logbook and diagnostic functions
  - Read-out capability for logbook.
  - Automatic patented flushing function for pump cleaning – for less suspended solids in the effluent.
  - With weaker loading or holidays fully automatic energy-saving mode.

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**AQUAmax® remote control**

- GSM transmission module (as accessory to aControl®).
  - Transmission of power failures; UVS® inclusive.
  - With this a fault in your wastewater treatment plant can be transmitted to a cell-phone of your choice 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
  - 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 suppliers.

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### 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.

**Coarse material filter**

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 maintenance-free and increases the security of the pump and aerator.

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