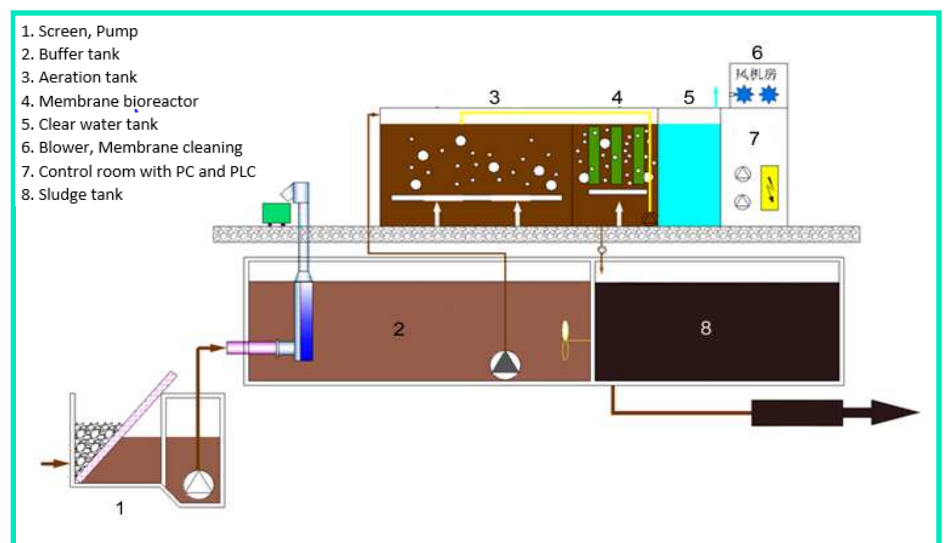


## Wastewater Treatment Plant Chengdu, China (20 x 2,500 PE)

Aqualogic® - Process optimization made in Germany

### Situation

For small settlement units (e.g. rural areas), decentralized sewage treatment plants are increasingly being built in China. Accordingly, high demands are made on operational safety and remote operation control. Small catchment areas with high inlet fluctuations in combination with compact wastewater treatment plants - with low reactor volume - harm the operational stability. This is critical insofar as the cleaning requirements are very high and strict limits apply.



### Solution

The container plants consist of an aeration tank and a downstream membrane stage. The aeration (Passavant® Roeflex®) is operated intermittently via Aqualogic® with the input variables oxygen and redox potential (focus: "maintenance-friendly"). Those container plants have a daily inflow of approx. 500 m<sup>3</sup> and thus an expansion size of approx. 1,500 - 3,000 PE. Despite the relatively small volumes, Aqualogic® ensures safe plant operation in compliance with the strict limit values.

## Technical Details

### Passavant® Aqualogic®

(energy efficient control via oxygen and redox potential)

Module Precipitant Dosage via oxygen consumption (without phosphate analyzer)

Aeration pulses during the denitrification phase for the circulation of the activated sludge

### Passavant® Roeflex® Disc Diffusers



## Benefits

- Efficient and reliable control of the biological treatment processes based on Fuzzy-Logic
- High scalability (usable for relatively small reactors)
- Adaptable to local conditions
- Various adjustment possibilities directly at the Aqualogic® controller
- Aqualogic® can be used with different measurement- and aerator manufacturers as well as different programmable logic controllers

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