

## CASE DISTRIBUTION

- Domestic sewage treatment case in scenic areas
- Domestic sewage treatment case of enterprises
- The domestic sewage treatment case of the villa
- The domestic sewage treatment case in the park



Countries  
**20 +**  
Cities  
**50 +**

Cases  
**1000 +**  
PE  
**200000 +**

**BioFilter**  
Unpowered waste water treatment Plant

Shanghai Baioute Environmental

Focusing on Quality and Quality, Win the Future Together



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Revolutionary and innovative technology

## Non-electric Non-maintenance purification tank



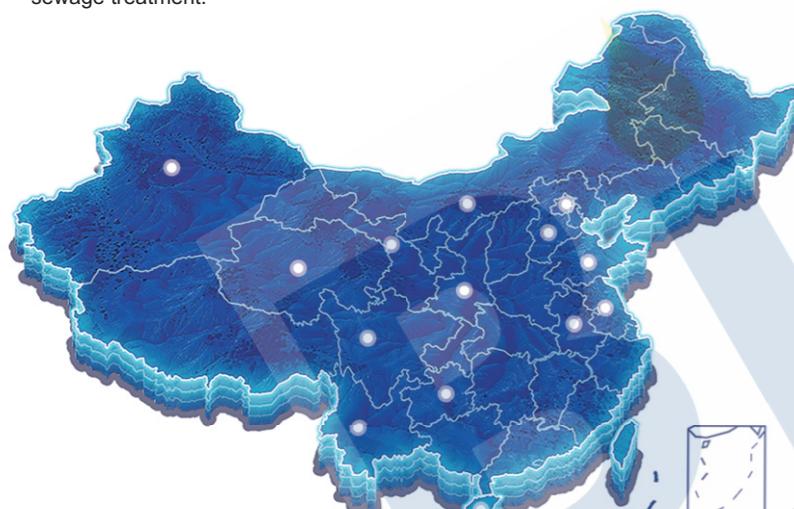
Lean manufacturing  
Effect guarantee  
German quality  
Patent escort 航

## COMPANY PROFILE

### About Us

BioFilter is an international well-known enterprise specializing in decentralized domestic sewage treatment without power or maintenance. With thousands sets of non-electric & non-maintenance purification tank installation, operation engineering experience, the product is constantly optimized. Tanks manufactured to German standards are adapted to various extreme installation and operating environments, such as cold temperature, high altitude. The product is widely used in rural areas, resorts, villas, parks, schools and other places. BioFilter has a complete industry chain including research and development, technology, rolling molding, production and manufacturing, and a sales network covering the whole world.

The combined advantages of "Non-electric", "Non-maintenance" and "Simple operation" is the key features of the BioFilter purification tank. It is widely used in countries such as Germany, France, Italy in Europe, Singapore, Malaysia, Bangladesh, Thailand, Vietnam, Cambodia, Laos in Southeast Asia, and more than 20 provinces and cities in China, solving the pain points of "electricity needed" and "complex operation and maintenance" in the field of decentralized domestic sewage treatment.



## PRODUCT INTRODUCTION

### Biofilter non-electric & non-maintenance purification tank

Wastewater is distributed into the biological reaction system through a unique distribution system (shaker bed), and the BioFilter media surface forms a biofilm. As the wastewater flows from top to bottom, pollutants are removed by the biofilm attached to the surface of the BioFilter media.

Through the aerodynamic principle, the system skillfully introduces the natural wind into the equipment, so that anaerobic, anoxic and aerobic multi-stage reaction occurs alternately in the tank. The system has good removal effect for COD, BOD, ammonia nitrogen and SS.



#### Non-electric

Natural wind is introduced into the equipment for oxygenation and aeration through a Non-electric fan, and the effluent is discharged by gravity, without the need for power consuming equipment throughout the process.



#### Non Debug And Fast Startup

The BioFilter media has a specific surface area of 618,000 m<sup>2</sup>/m<sup>3</sup>, treated with special enzymes. After the wastewater flows through it, the media can quickly be covered with a biofilm. The water can be treated naturally within 7 days to achieve the desired treatment effect.



#### Non-maintenance, Acceptable Waterless Shutdown

No electric parts, no need to replace any parts, no need for professional maintenance. The BioFilter media can retain sufficient water, ensuring that the biological bacteria in the tank survive during long-term shutdown, so that the treatment effect can be quickly and automatically restored when the water is re-introduced.

### BioFilter Authoritative Certification

With international En12566 and PIA certifications from 10 countries, Germany, France, Belgium, Switzerland, Italy, etc., dozens of patent certifications for domestic inventions and utility models have also been obtained, BioFilter products have been exported to various parts of the world. Currently, there has been more than 100,000 installed and operating wastewater treatment systems in China, Africa, Europe, the Middle East, Russia/CIS.



Bescheinigung Nr. 185840.A14  
Bestätigung der Option auf Baureihenerweiterung  
EN 12566-8  
Secondary treatment unit for up to 50-PT  
Secondary treatment of the small wastewater treatment system  
BioFilter 500 in a polyethylene tank

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Model	BioFilter500		BioFilter1000		BioFilter2000	BioFilter3000	BioFilter5000	BioFilter7000	BioFilter10000
	A	B	A	B					
Capacity(t/d)	0.5	0.5	1	1	2.0	3.0	5.0	7.0	10.0
Number of households processed	1-2 households	1-2 households	3-4 households	3-4 households	7-8 households	12-13 households	18-20 households	25-30 households	35-40 households
Capacity PE	5-7 people	5-7 people	10-14 people	10-14 people	25-28 people	38-42 people	65-70 people	95-100 people	135-140 people
Size(mm)	2300x1000x1500	1000x1000x1500	2300x1000x1500	2300x1000x1500	1500x1200x2000	2200x1200x2000	2500x1200x2000	3700x1200x2000	4000x1200x2000
Weight(kg)	150	140	180	200	240	300	360	600	670