

CLEAN WATER  
GLOBAL HOME

***Plop***

Creating a wonderful water future for global families!  
Leader in smart water treatment for global courtyards

***Plop***

Suzhou Plop Environmental Co., Ltd. — a pioneering expert with 15 years of dedicated leadership in the field of water environment treatment. We serve households worldwide by tackling critical challenges such as drinking water scarcity and hazardous environmental impacts caused by uncontrolled wastewater discharge — issues that directly threaten public health and safety.

Pioneering a new category of smart courtyard home appliances, the Plop Phantom® Smart Home Water Treatment Machine is an AI-driven, multi-modal smart courtyard appliance that delivers differentiated water quality treatment for the entire house in decentralized scenarios. It features “breakthrough technological innovation integration, revolutionary cost reduction and efficiency improvement, and globally connected partner ecosystems.” It delivers a full-scenario water ecosystem of “clean drinking water, reusable household wastewater, courtyard entertainment, and healthy smart enjoyment.” It leads the industry’s transformation from government-led public services to household appliance consumption, building a new “human-courtyard-water” ecosystem. The Phantom produces pure water; with a beautiful home, the family becomes even more beautiful. Our vision: “Clean Water, Global Home.” Upholding the corporate spirit of “focus, leadership, gratitude, and wellness,” we share the hundred-billion-level household water treatment market opportunity with global partners, striving to bring a wonderful water life to millions of families and ignite the world!



***Plop***

Creating a wonderful water future for global families!





# Industry background

Water is the source of life. In many countries around the world, rural areas, urban suburbs, homestays, tourist attractions, and other scenarios where households live in a decentralized manner—whether clustered or scattered—daily human activities demand large amounts of clean drinking water and also generate large amounts of domestic wastewater. This wastewater is often neglected and discharged arbitrarily. Due to limited government investment, the high initial costs of planning and constructing traditional centralized water and sewerage networks and treatment plants, as well as the prohibitive long-term operating expenses, many regions face severe water resource challenges, making it difficult to achieve comprehensive collection and effective treatment of water. We deeply understand that the wastewater problem not only undermines the improvement of the water environment but also directly affects human sanitation, health, and well-being.

In view of this, we aspire to become a globally leading provider of household-scale water treatment solutions, addressing the needs of households around the world facing water pollution, water insecurity, and water crises. Through technological innovation, we provide more efficient water treatment solutions, striving to create a cleaner, healthier, and more livable home water environment for millions of families. Furthermore, we are committed to fulfilling our social responsibility by actively cooperating with various stakeholders. We work together to promote the healthy development of the household-scale water treatment industry and contribute to building a better world. Through our efforts, we strive to protect the future of our planet and the life and health of humanity.

# Product Introduction

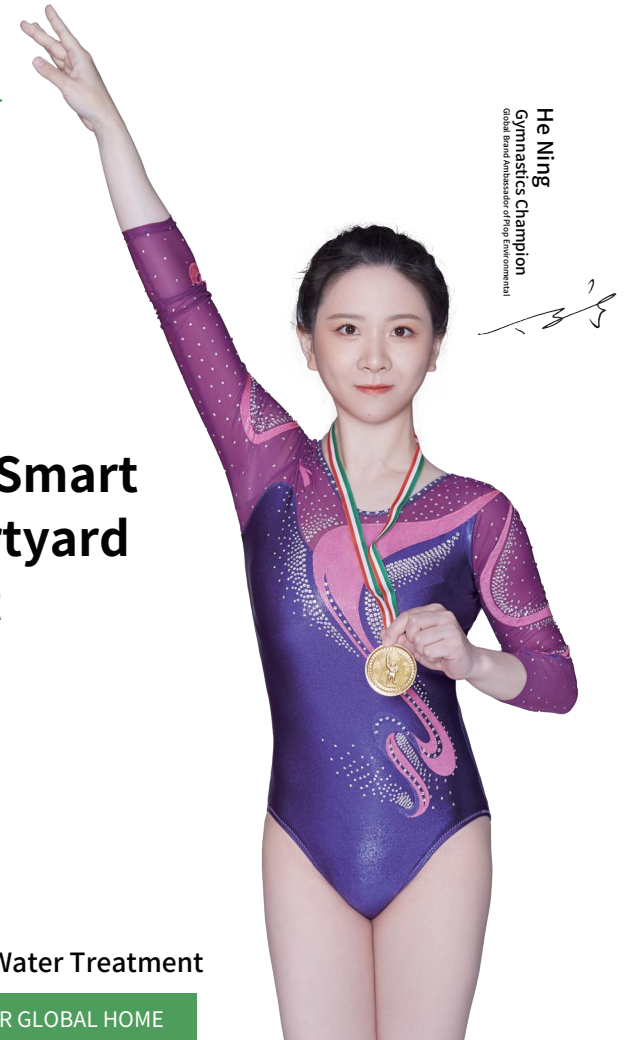
Plop Phantom® Smart Home Water Treatment Machine covers global household applications including drinking water purification, wastewater treatment, pool water, car wash water, and koi pond water. In the future, it will expand into industrial, aquaculture, medical, and marine scenarios. Zero pipelines, zero electricity consumption, zero excessive discharge. The Plop Phantom® has been evaluated by a panel of authoritative academicians and experts and has reached internationally advanced technical standards. It achieves breakthrough cross-sector technological innovation and revolutionary cost reduction and efficiency improvement. Equipped with the Plop Pegasus® smart system, it is more technologically agile and intelligent, delivering a full-scenario water ecosystem of “clean drinking water – reusable household wastewater – courtyard entertainment – health protection,” creating and leading a new business value of “human – courtyard – water.”

The product series includes six main models: Wastewater Resource Edition 0.5T, Greywater Saving Edition 1.5T, Pool Purification & Entertainment Edition 3T, Clean Water Health Edition 1.5T, Koi Edition, and Car Wash Edition. It deeply integrates “water purification and saving” with “entertainment and health.”

Creating a wonderful water future for global families

## Global Leader in Smart & Enjoyable Courtyard Water Treatment

**15**Year Focused on Water Treatment  
CLEAN WATER GLOBAL HOME



# The Architect of a Wonderful Water Life for Families

## Basic Information of Plop Phantom®

Material: Plastic / Stainless Steel

Dimensions:

1136 mm (H) × 808 mm (L) × 650 mm (W)

Weight: 91 kg (PP plastic) /  
147 kg (304 stainless steel)

Rated Power: 65–240 W

Installation: Above-Ground

Power Supply Options: Grid Power,  
Optional Solar Power, Energy Storage



# Global First. Advanced Worldwide.



CNECA Carbon Neutrality Technology Progress Award



Work Registration Certificate for "Clean Water, Global Home"



PICC Product Liability Insurance Covered



Leading Company in Water Supply & Drainage Equipment



Certificate of Socially Responsible Enterprise



ACEF Science and Technology Progress Award



Invention Patent Certificate ZL202511208806.4



PRC National Copyright Administration - Computer Software Copyright Registration Certificate



Product Test and Inspection Report



EU CE Certification

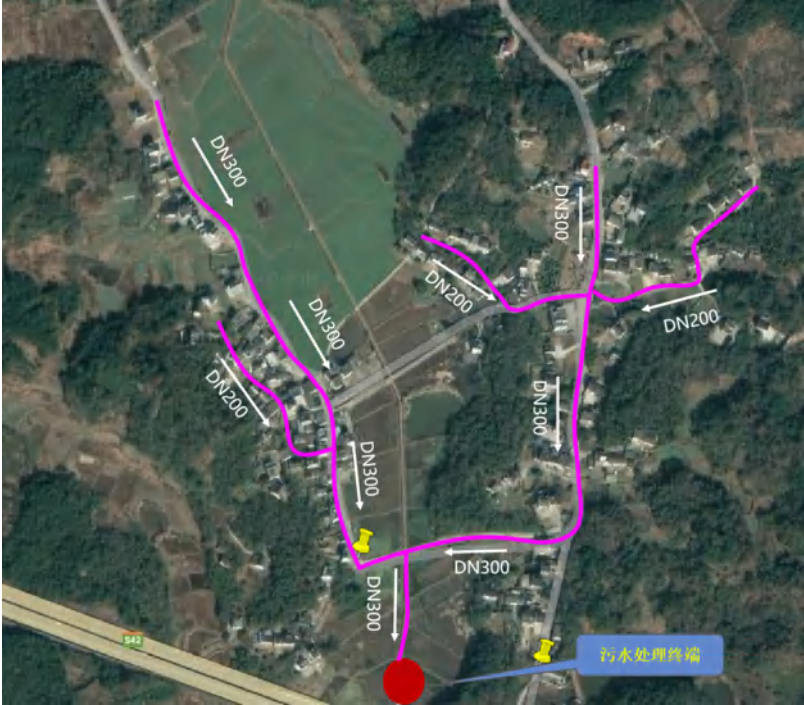


Belt and Road Initiative - Recommended Case of Eco-Environmental Technology and Product

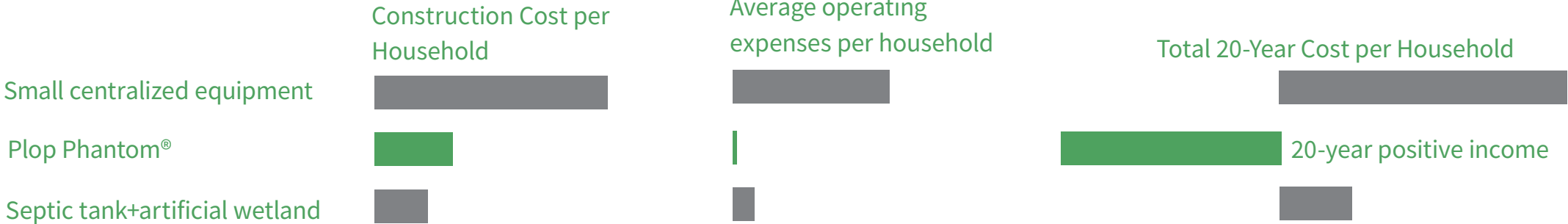
	Functional Parameters	Resource Edition	Water-Saving Edition	Water Purification Edition	Pool Edition	Koi Edition	Car Wash Edition
Water clarity analysis		•	•	•	•	•	•
Smart Platform		•	•	•	•	•	•
Ground installation		•	•	•	•	•	•
solar energy		•	•	•	•	•	•
energy storage allocation		•	•	•	•	•	•
Handheld irrigation spray gun		•	•	•	•	•	•
insulation		•	•	•	•	•	•
Silent Design		•	•	•	•	•	•
SOS function		•	•	•	•	•	•
Health Report		•	•	•	•	•	•
visual analysis		•	•	•	•	•	•
Security guard		•	•	•	•	•	•
Bluetooth speaker		•	•	•	•	•	•
Courtyard atmosphere light		•	•	•	•	•	•
Cool light strip		•	•	•	•	•	•
mosquito repellent lamp		•	•	•	•	•	•
electronic screen		•	•	•	•	•	•
Material definition		•	•	•	•	•	•
Appearance sticker		•	•	•	•	•	•

# Investment cost

Item	Unit	Centralized System Quantity	Plop Phantom® Decentralized System Quantity
UPVC Sewage Connection Pipe (De110)	m	1060	0
HDPE Sewage Branch Pipe	m	1311	0
HDPE Main Sewage Pipe (DN300)	m	874	0
Reinforced Concrete Manhole	unit	32	0
Plastic Manhole	unit	74	0
Road Surface Restoration	m <sup>2</sup>	3496	0
Excavation Volume	m <sup>3</sup>	5430	0
Wastewater Treatment Terminal (60 m <sup>3</sup> /day)	unit	1	106 Set
Septic Tank Retrofit	unit	15	15
Landscaping & Greening	m <sup>2</sup>	2000	0



Centralized vs Plop Phantom®



## Water saving benefits

Country	China	Saudi Arabia	UK	South Africa	USA	Japan
Water Price (CNY/ton)	8	56	22	7.14	13	11.39
Avg. Daily Household Consumption (m <sup>3</sup> )	1.5	3	0.7	1.8	1.4	0.5
Saving per ton (CNY)	6.12	55.29	20.62	6.43	12.29	10.43
Payback Period (Years)	4.31	0.57	2.95	4.88	2.56	4.03

Note: The recycling cycle may vary depending on market guidance prices and water and electricity prices



## Aura

Plop Phantom® Wastewater Resource Edition 0.5T\*\* collects and treats all black and grey water generated daily from household kitchens, bathrooms, showers, and other sources on-site. Featuring the self-developed M<sup>2</sup>B<sup>2</sup>R+AOP integrated process, the high-quality reclaimed water produced after treatment can be directly used for courtyard irrigation, watering flowers, direct discharge, etc., solving the problem of proper wastewater disposal.



## Vita

Plop Phantom® Clean Water Health Edition integrates "visual algorithm" with "drinking water safety." It is suitable for areas without access to tap water, those with groundwater contamination, or regions with heavy rainfall, ensuring access to healthy, clean drinking water. Quietly accompanying every family member in the courtyard, it addresses key implicit health and safety needs such as daily gait patterns, emotional perception, emergency fall detection and first aid, safety protection, and water quality indicators. It also provides regular health prediction reports, helping you stay healthier.



## Reva

Plop Phantom® Greywater Saving Edition 1.5T collects and treats all greywater generated daily from household bathrooms, showers, and other sources on-site, achieving compliant reuse for toilet flushing, laundry, and car washing. It features the self-developed M<sup>2</sup>B<sup>2</sup>R+MBR+AOP integrated process, along with key technologies such as energy management, temperature retention, multi-modal health detection, and water clarity analysis. The high-quality reclaimed water produced after treatment can be directly used for toilet flushing, laundry, and car washing, solving the challenge of greywater conservation.

**Plop**



## Glos

Plop Phantom® integrates "car wash wastewater" with "recycling and water conservation." It is suitable for car washes in urban areas where tap water prices are high and washing frequency is high. It enables the circulating treatment of car wash wastewater for reuse in car washing, meeting water conservation needs and delivering greater economic returns.



## Meris

Plop Phantom® 304 Pool Purification & Recreation Edition 3T\*\* continuously purifies and dynamically refreshes household pool water through a high-efficiency circulation process. It features a self-developed three-dimensional purification system, integrating key technologies such as intelligent hydraulic control, ozone-assisted microfiltration, and UV-enhanced disinfection, equipped with real-time water quality sensing and adaptive control modules. After treatment, the pool water becomes crystal clear and healthily clean, sustainably meeting diverse usage needs including daily family swimming, children's water play, and leisure recreation, thus solving the maintenance problems of pools that "easily become dirty after prolonged use and require frequent water changes."












## Koi

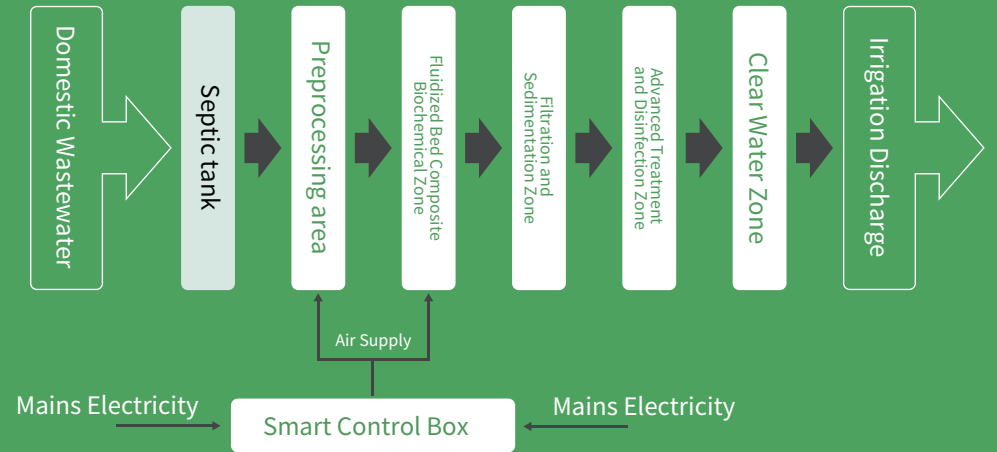
Plop Phantom® is suitable for villas, homestays, and other households. It circulates and treats koi pond water, meeting the optimal water requirements for koi 24 hours a day, reducing illness and death caused by unstable water quality, and providing you with greater peace of mind.

**Plop**

# Aura Edition

## Plop Phantom Wastewater Resource Edition 0.5T

-  Daily water treatment capacity 0.5 tons/day
-  Water clarity detection
-  Solar energy storage 1 kilowatt-hour
-  Handheld irrigation spray gun The wire is 8 meters long
-  thermal insulation system Insulation at -40 degrees Celsius
-  0 Pipe network design
-  silent work Noise level less than 40dB
-  mosquito repellent lamp
-  Bluetooth speaker



	COD (mg/L)	BOD (mg/L)	NH <sub>3</sub> -N (mg/L)	TP (mg/L)	SS (mg/L)	E. coli (cells/L)	Color (×)
Design Influent	≤800	≤500	≤50	≤5	≤250	-	≤80
Design Effluent	≤60	≤20	≤8	≤1	≤20	≤10000	≤30










Note: An additional power supply is required for the advanced treatment process.

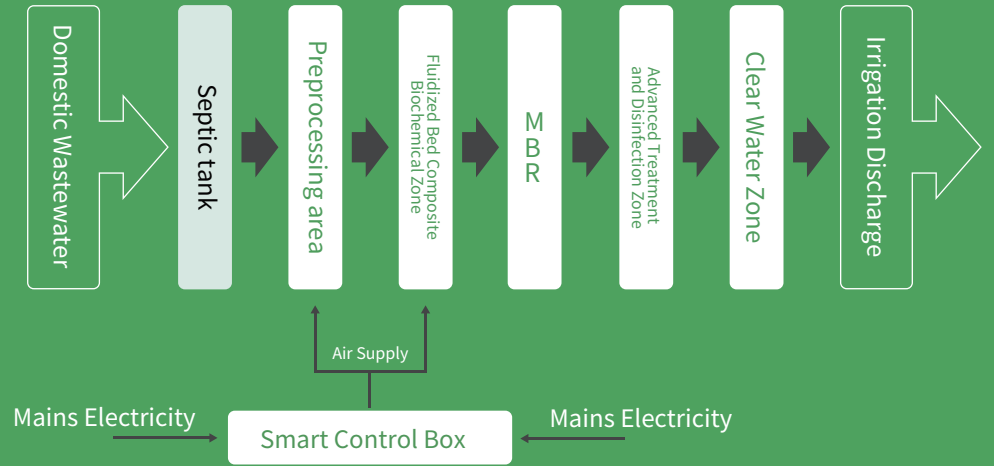


PLOH PHANTOM™  
SEWAGE RESOURCE

# Reva Edition

## Plop Phantom Water-Saving Edition 1.5T

-  Daily water treatment capacity 1.5 tons/day
-  Water clarity detection
-  solar energy 1 kilowatt-hour
-  Handheld irrigation spray gun The cord is 8 meters long
-  thermal insulation system Insulation at -40 degrees Celsius
-  0 Pipe network design
-  silent work Noise level is less than 40dB
-  mosquito repellent lamp
-  Bluetooth speaker



	COD (mg/L)	BOD (mg/L)	NH <sub>3</sub> -N (mg/L)	TP (mg/L)	SS (mg/L)	E. coli (cells/L)	Color (×)
Design Influent	≤800	≤500	≤50	≤5	≤250	-	≤80
Design Effluent	≤60	≤20	≤8	≤1	≤20	≤10000	≤30

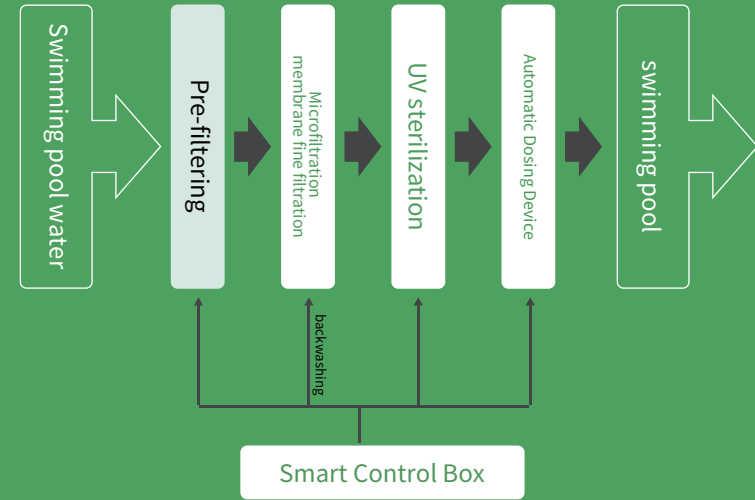
Note: An additional power supply is required for the advanced treatment process.



# Meris Edition

## Plop Phantom Pool Recreation Edition 3T

-  Daily water treatment capacity: 3 tons/hour
-  Bluetooth speaker
-  Water clarity detection
-  Courtyard atmosphere lighting effect
-  Insulation at -40 degrees Celsius
-  mosquito repellent lamp
-  0 Pipe network design
-  Intelligent voice system
-  Noise level is less than 40dB
-  multimedia screen
-  Gait analysis for health trend analysis
-  Cool light strip
-  Fall event recognition
- SOS** Notify family members of emergency situations through networking
-  Assessment of emotional health status
-  Health analysis report output



	Turbidity (NTU)	Urea (mg/L)	Free Residual Chlorine (mg/L)	Total Colony Count (CFU/mL)
Design Influent	<5	≤10	<0.3	-
Design Effluent	<0.1	≤3.5	0.3-1.0	≤200





# Vita Edition

Plop Phantom Clean Water Health Edition 1.5T


Applicable to: Groundwater, River/Lake Water, Rainwater

 Daily water treatment capacity: 1.5 tons/day

 Water clarity detection

 0 Pipe network design

 Noise level less than 40dB

 Gait analysis for health trend analysis

 Fall event recognition

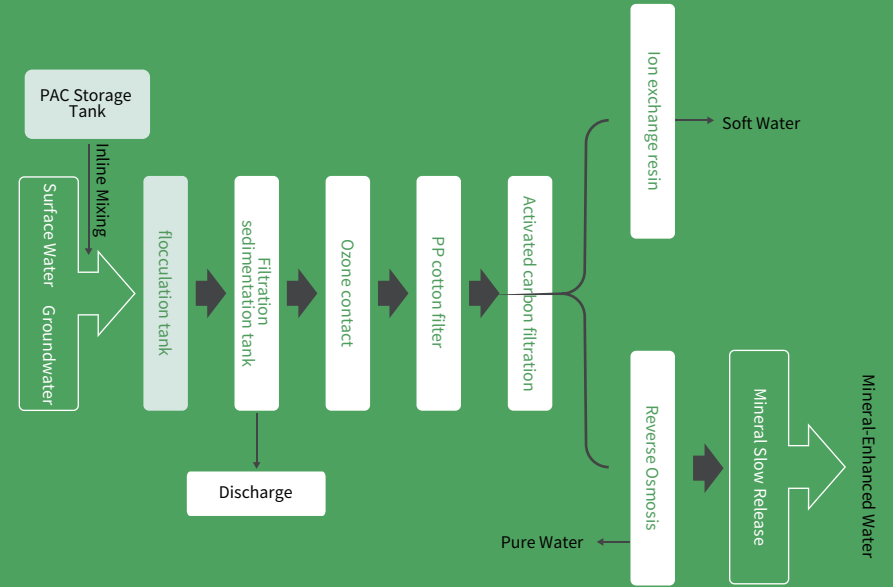
**SOS** Notify family members in case of emergency through

 networking

 Assessment of emotional health status

 mosquito repellent lamp

 Cool light strip



	COD (mg/L)	Turbidity (NTU) (NTU)	Visible Substances	Total Bacterial Count (CFU/mL)	Chromaticity (dilution factor)	Odor and Taste
Design Influent	≤30	≤100	Yes	-	≤50	-
Design Effluent	≤3	≤1	No	≤10	≤15	No abnormal odor or taste

Note: Other indicators meet the WHO Guidelines for Drinking-water Quality and Chinese Standard GB 5749-2006 after advanced treatment.



Air & Water  
Quality: Optimal

Plop

# Koi Edition

## Plop Phantom Fortune Koi Edition 10T



Daily water treatment capacity: 10 tons/day



Water clarity detection



Insulation at -40 degrees Celsius



0 Pipe network design



Koi version with noise level less than 40dB



Health analysis report output



Bluetooth speaker



Courtyard atmosphere lighting effect



mosquito repellent lamp



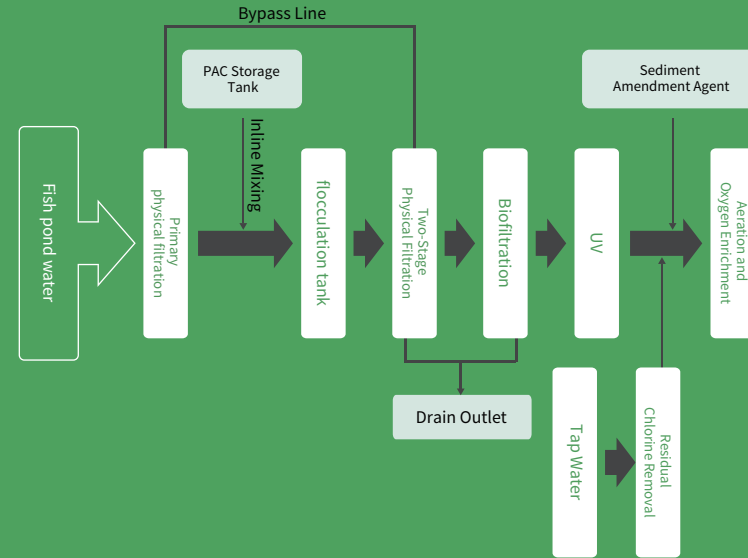
Intelligent voice system



multimedia screen



Cool LED strip



	Color, Odor and Taste	SS (mg/L)	PH	DO (mg/L)	BOD5 (mg/L)	Unionized Ammonia (mg/L)	Total Coliforms (CFU/L)
Design Influent	-	<100	-	-	<10	-	-
Design Effluent	No abnormal color, odor, or taste	≤10	6.5-8.5	>5	≤5	≤0.02	≤5000

Note: Other indicators refer to the Chinese Standard: Fisheries Water Quality Standard (GB 11607-89) after treatment.



# Glos Edition

## Plop Phantom Cycle Car Wash Edition 1.5T



Daily water treatment capacity 1.5 tons/day



Handheld irrigation spray gun Line length 8 meters



thermal insulation system Insulation at minus 40 degrees Celsius



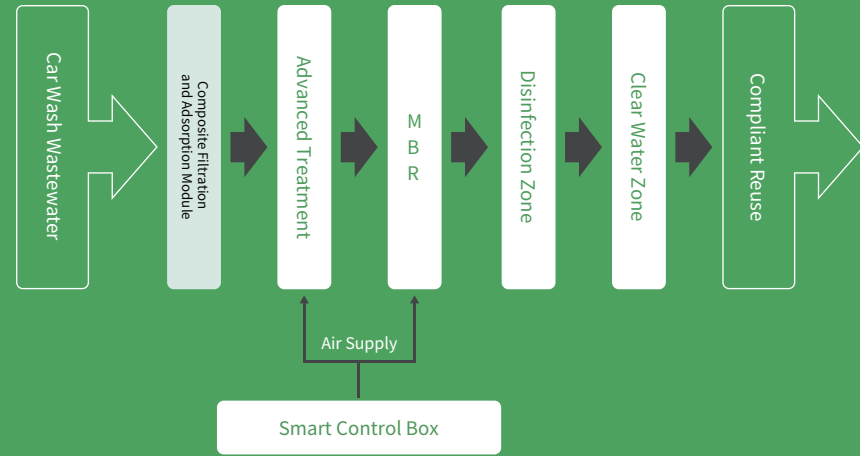
0 Pipe Network Design



silent work Noise level less than 40dB



Cool light strip



	COD (mg/L)	BOD (mg/L)	NH <sub>3</sub> -N (mg/L)	TP (mg/L)	Odor (mg/L)	SS (mg/L)	Surfactant (mg/L)	Color (x)	Residual Chlorine (mg/L)
Design Influent	≤200	≤200	≤30	≤5	-	≤100	-	≤80	-
Design Effluent	≤50	≤10	≤5	≤1	No abnormal odor	≤5	≤10000	≤30	≥1



PLOP-PHANTOM™ WASH EDITION  
HARDWARE FILTRATION  
WASTEWATER RECLAMATION SYSTEM

PHANTOM™  
- SMART WATER RECYCLING

# Plop Pegasus® Intelligent system

Plop Pegasus® Intelligent system is a multimodal smart system for household water health. This system connects seamlessly with water treatment devices in the home, delivering personalized data services to users in real time. Leveraging internet and cloud-platform technology, it enables remote after-sales and operational management on a global scale—allowing parameters and operation of home water treatment equipment to be adjusted from anywhere in the world. It provides comprehensive, intelligent water health.





## Multi-Modal Water Clarity Model

Significantly enhances resource recovery efficiency. The system automatically adjusts the treatment process based on real-time influent/effluent quality data, ensuring consistently stable and compliant discharge.

## Multi-Modal Health Model

A world-first innovation integrating entertainment interaction and health monitoring into a home wastewater treatment device. It transforms the unit from a "single-function water purifier" into a "versatile smart appliance for yard and home living."

## Global Operations at Your Fingertips

Leveraging the distributed cloud architecture of the qianlima® Intelligent system, it enables 24/7 global operational management. The system achieves over 95% adaptability across different regions, meeting the after-sales needs of households worldwide.

## In-Depth Data Value Mining

Establishes a global multi-modal household water health database, unlocking the full value of water conservation resources and health-related information generated by the devices.

# Partner Recruitment

Plop Environment helps global partners jointly explore the water treatment industry for millions of households through product ecology.

New Political Achievements

New Standards

Revolutionary Efficiency Improvement

# Government Achievements

Revolutionary Cost Reduction

New Model

New Industry

New Technology

New Solutions

Revolutionary Products

Enterprise-Level Platform

Leading Solutions

Global Brand Empowerment

Full-Process Technical Support

# Partner Value

Exclusive Regional Agent Support

Home Second Space Business Ecosystem Extension

Equity Financing Cooperation

Industry-Academia-Research-Application Projects

Low Carbon

Eco-friendly

Green

Simplicity

Hygiene

Water Saving

DIY Color

# User Value

New Home Appliances

Entertainment

Safety

Health

Smart Home Appliance



Pipeline Network

Packing Material

Water Pump

Air Pump

Energy Storage

Solar Energy

Microcontroller  
Unit (MCU)

## Supply Chain Ecosystem

Water-Saving Toilet  
Fixtures

Camera

New Materials

Manufacturing

Screen

Microbial Strains

Sound and Light

Value Leadership

Spatial Ecosystem

Product Leadership

Standard Leadership

## Industrial Ecosystem

Model Leadership

Industrial Leadership

Technology Leadership

Ecosystem Leadership

Entertainment

Construction

Environmental Pro-  
tection

Home Furnishing

Finance

Digital Village

## Sector Eco- system

Courtyard Economy

Advertising

Health

Security

Elderly Care

Electrical Appliances

Medical Care

*Phantom brings good water quality making your home and yourself even more beautiful*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Aura Edition



*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Aura Edition

*Phantom brings you water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Reva Edition

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

**Reva Edition**

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Vita Edition

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Vita Edition

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Meris Edition

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Meris Edition

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**



[www.plopwater.com](http://www.plopwater.com)

Koi Edition

*Phantom brings good water quality, making your home and yourself even more beautiful!*

**Plop**

[www.plopwater.com](http://www.plopwater.com)

**Koi Edition**



... good water quality, making your home and yourself even more beautiful!

**Plop**



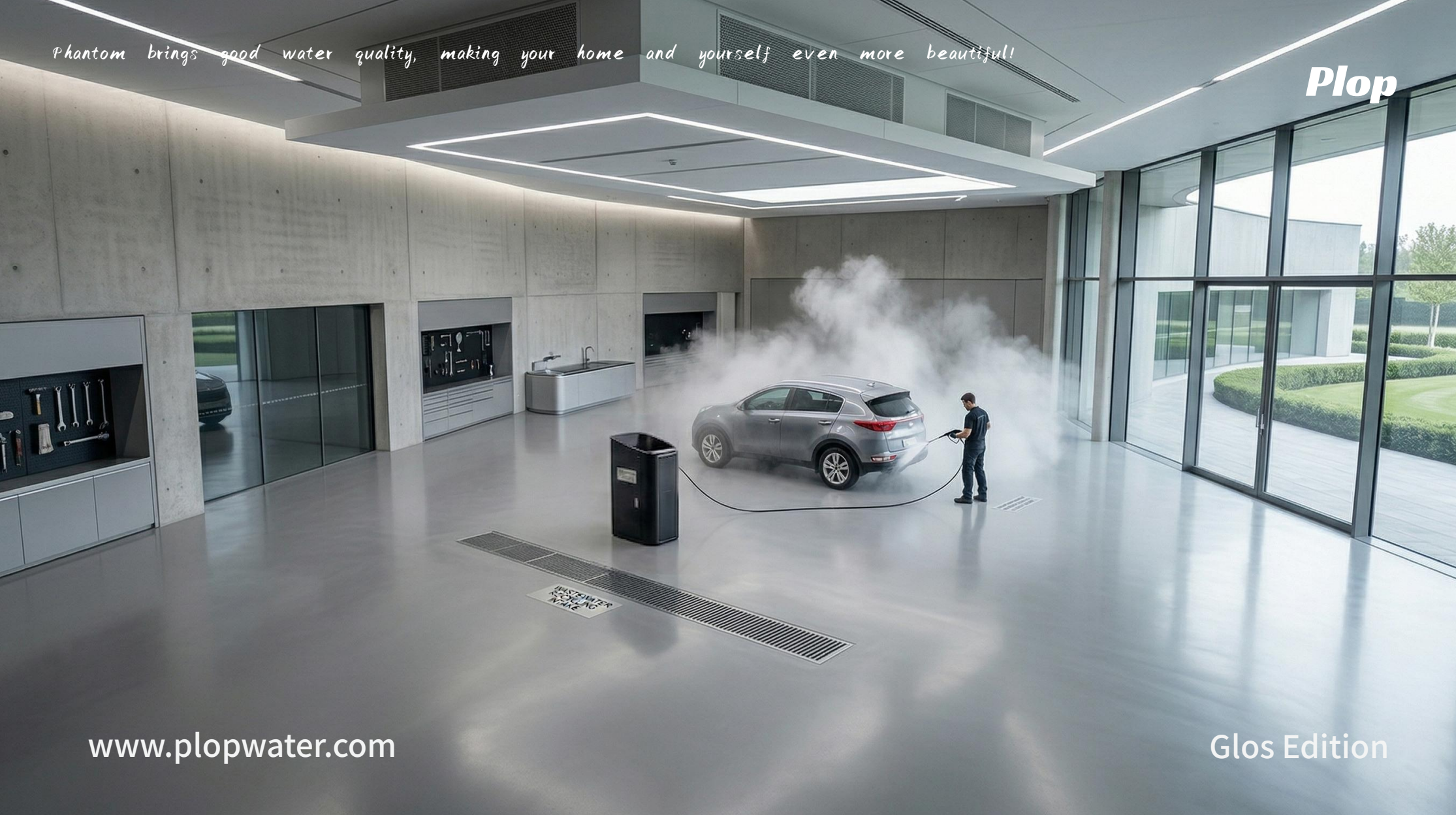
Plop Phantom®  
Wash Edition  
Wastewater Recycling  
& Pumping System

[www.plopwater.com](http://www.plopwater.com)

Glos Edition

Phantom brings good water quality, making your home and yourself even more beautiful!

**Plop**



[www.plopwater.com](http://www.plopwater.com)

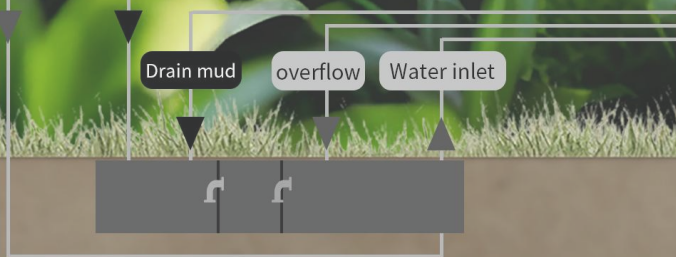
Glos Edition

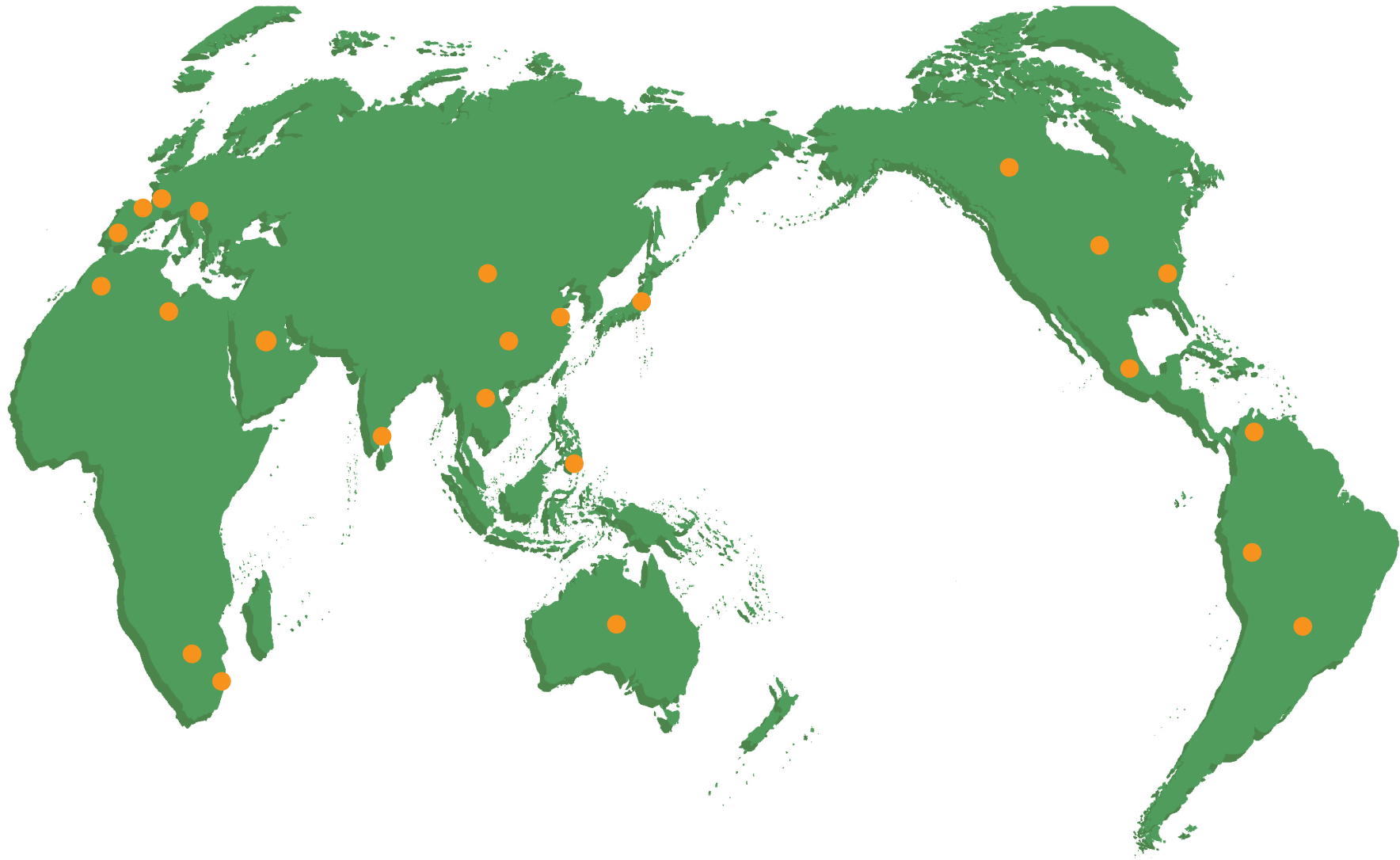
# www.plopwater.com



Grey  
Water  
Collection

Black  
Water  
Collection





*Plop*



Suzhou Plop Environmental Co., Ltd.

[www.plopwater.com](http://www.plopwater.com)

+86 400-188-5620

No. 388 Ruoshui Road, Suzhou Nanotechnology National University Science Park, China