



**Water  
Beauty**

# **The Leading Provider of Chemical-Free**

Pure Water. Pure Physics. Zero Chemicals.

**Water Beauty Innovation Co.,Ltd.**

Clean with Water. Nothing Else

## Company Profile

Water Beauty Innovation is a Taiwan-based clean technology company developing patented ionized water systems for industrial laundry operations. Our systems integrate directly into existing equipment — no retrofitting required — delivering a full replacement for chemical detergents while reducing wash temperatures, shortening cycle times, cutting water and energy consumption, and maintaining hospital-grade hygiene standards.

Conventional laundry operations depend on high temperatures, extended cycles, and heavy chemical inputs — all of which drive up energy, water, and wastewater treatment costs. Under mounting global ESG pressure, this has become a structural liability for facility management. Water Beauty provides a deployable, field-proven alternative.



Headquarter: Taiwan

Industry: Water – based cleaning technology

Patents: Taiwan · United States · Japan · European Union · Germany

We develop industrial-grade ionized water generation systems that integrate directly into existing laundry infrastructure — no facility retrofit, no equipment replacement. Proprietary electrolysis continuously generates stable, high-concentration  $\text{OH}^-$  ions that physically strip soils and inactivate pathogens, then revert naturally to pure water. Zero chemical residue.

### You can

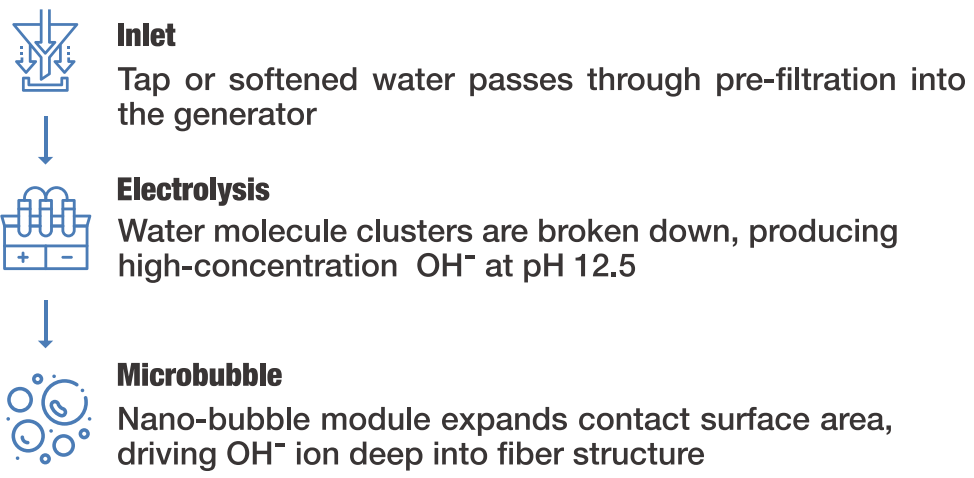
- ▲ Cut chemical detergent procurement, storage, and consumable management
- ▲ Skip high-temperature wash cycles
- ▲ Reduce water and energy consumption by 50–60%
- ▲ Eliminate surfactant and chemical discharge in wastewater

### What you keep

- ▲ Your existing washing and drying equipment
- ▲ Your current workforce and operating procedures
- ▲ Hygiene performance and cleaning efficacy

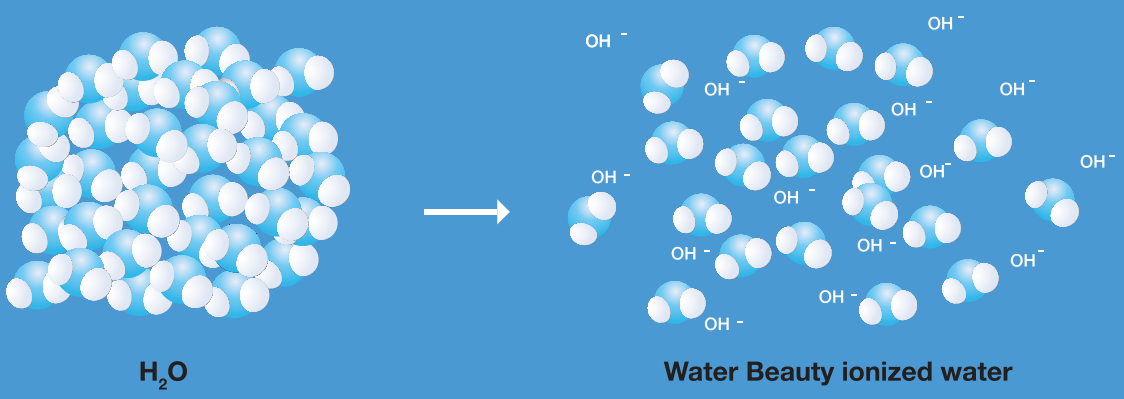
# Our Technology

Pure electrolysis breaks water molecule clusters down, generating high-concentration, continuously stable OH<sup>-</sup> ionized water.



The smaller the cluster, the stronger the penetration. Water Beauty ionized water permeates deep into fiber microstructures, stripping soils at the source — no chemical detergents required.

	Cluster Size	Penetration
Tap water	15–20 molecules per cluster	Standard
<b>Water Beauty ionized water</b>	<b>4–6 molecules per cluster (~1/3)</b>	<b>Significantly enhanced</b>



“

High-concentration, stable, nano-scale  $\text{OH}^-$  ions — all the power of negative ions, none of the instability.

”

## **$\text{OH}^-$ Stability**

Standard alkaline water loses  $\text{OH}^-$  potency within minutes. Water Beauty's patented module maintains stable  $\text{OH}^-$  concentration throughout the entire wash cycle — ensuring consistent efficacy from start to finish.

## **Air Purification**

Water Beauty ionized water doesn't stop at surfaces. When used with a humidifier or diffuser,  $\text{OH}^-$  ions disperse into the air — neutralizing formaldehyde, ammonia, mold, and other airborne contaminants. Independently verified by SGS Taiwan and Microbac (U.S. EPA-Certified GLP). Cleaner air. No chemicals. No residue.

## **What's NOT in it**

No hypochlorous acid, glutaraldehyde, alcohol, or bleach — and no surfactants, toxic substances, or any chemical additives.

## OH- Disinfection Mechanism

Pure physical inactivation.

No chemical residue. No risk of antimicrobial resistance.

Mechanism	
Contact	OH <sup>-</sup> is attracted to the positive charge on bacterial cell membranes, enveloping the pathogen surface
Disruption	Binds to oxygen-containing functional groups on the cell membrane, destroying its outer structure
Reversion	OH <sup>-</sup> recombines with H <sup>+</sup> to form H <sub>2</sub> O

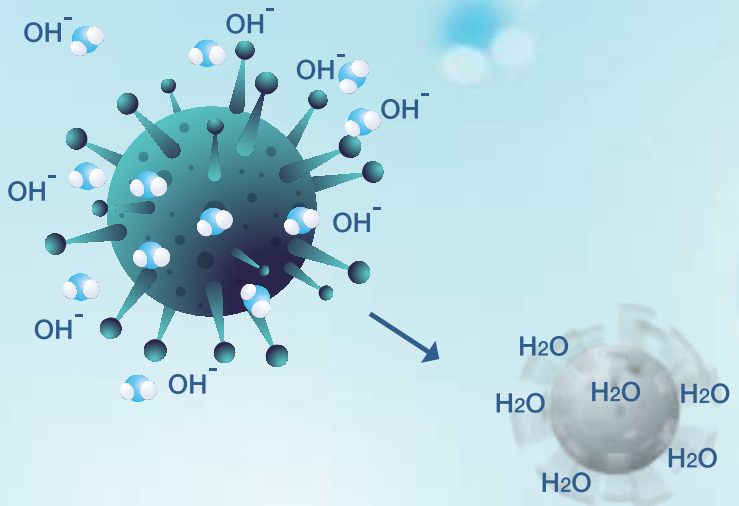
The Third Party Test Reports	Results
COVID-19 Inhibition	> 99.99%
H1N1 Influenza Inactivation	100%
Environmental Bacterial Strains	11+ species inhibited
Antimicrobial Resistance Risk	0
Air Quality & Volatile Compounds (Formaldehyde, sulfides, ammonia, TVOC, n-butanol)	Effectively reduced
Eye & Respiratory Mucosa	No irritation
Oral, Inhalation & Dermal Contact	No adverse effects
Safe for infant environments	Confirmed
Environmental Technology Verification	TIEQM ETV-112-001

Result

Pathogen surrounded

Cell death

Zero residue



Certified by

Microbac (U.S. EPA-Certified GLP)

Chinese Academy of Sciences

SGS Taiwan

Pure physical inactivation — no resistance pathway

SGS Taiwan · Microbac (U.S. EPA GLP) ·  
Academic institutions · Medical centers

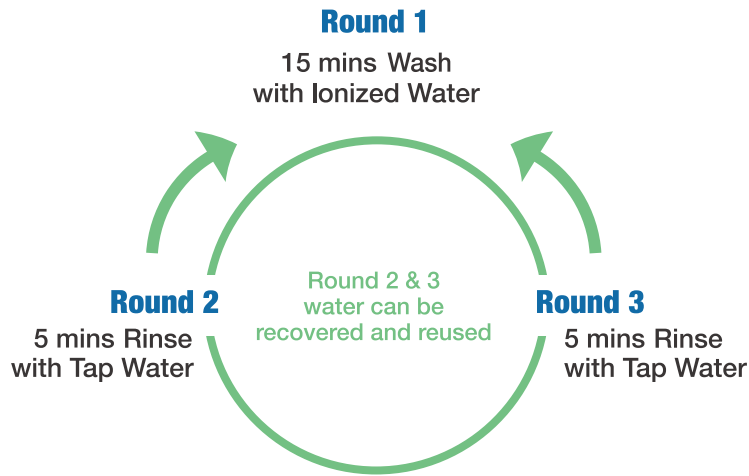
SGS Taiwan

SGS Taiwan

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Taiwan Indoor Environment Quality Management Association  
(ref. ISO 14034)

## Wash. Rinse. Recycle. Reuse.



### Water recycled

Rinse water from light and medium cycles can be recycled and reused 1–2 times, reducing overall water consumption by up to 60%.

### Environmental performance

Wastewater meets discharge standards without chemical treatment. Zero surfactants enter drainage systems or waterways. Third-party tested — zero chemical residue on textiles. Supports ESG and sustainability certification frameworks across hospitality, healthcare, and coastal markets.

### Fabric Color Safety

Independently tested to CNS 1494-6 L3027-6-104 standards (Report No. TWNT01970096), linens and textiles washed with Water Beauty ionized water retain their color — achieving a color fastness rating of 4–5 out of 5 across cotton and wool fibers. No visible fading or discoloration after washing. Safe for use on all fabric types across health-care and hospitality settings.



## Color Fastness Testing

Color fastness measures how well a fabric retains its color after washing — and whether it transfers color onto other fabrics. It is rated on a scale of 1 to 5, where 5 is the best. Tested under CNS 1494-6 L3027-6-104, WaterBeauty's ionized water achieved a rating of 4–5 out of 5, confirming that fabrics maintain stable color after washing with no compromise on cleaning performance.

	A1S	A2S
Color Change	4–5	4–5
Cotton Fiber Staining	4–5	4–5
Wool Fiber Staining	4–5	4–5
Color Fastness	4–5	4–5

## Optimized Efficiency. Uncompromised Quality.

	Traditional Wash
Cycle Structure	1 main wash + 3 rinses
Water Consumption	2,000 L
Cycle Time	60 min
Machine Power	8.9 kW
Heating Fuel	Diesel / gas — ongoing cost
Detergent Cost	Ongoing expenditure

- ▲ Actual energy savings vary by machine model and load capacity.
- ▲ Heating fuel type varies by facility (diesel, gas, electric heating, etc.)

Water Beauty Ionized Water	Savings
1 main wash + 1 rinse	—
1,000 L	↓ 50%
30 min	↓ 50%
4.45 kW	↓ 50%
No heating required	Eliminated
Zero	100% eliminated



**Hospital Laundry: From 1 Hour to 15 Minutes.  
Ionized water. Zero chemicals. Pure results.**

## Beyond Laundry - A Complete Cleaning Solution



Air Purification



Food Washing



Kitchen cleaning

1. Kitchen Degreasing and Sanitization
2. Air Purification, reduce airborne particles and surface mold.
3. Food-Safe Produce Washing, naturally extending shelf life.



Ward Cleaning



Instrument Cleaning



1. Operating Room and Ward Cleaning  
Maintains hygiene across hospital spaces.
2. Medical Instrument Cleaning  
Removes residues from instruments used in healthcare settings.

	10L	Industrial
Ionized Water Output	10 L / hr	30L · 120L · 300L · 900L / hr
pH	12.5 ± 0.3	12.5 ± 0.3
Power Supply	AC 110 / 220V	AC 380V Three-phase
Installation	Plug-and-play	On-site installation by manufacturer
Warranty	24 months	24 months + service plan
Occasion	Commercial Space	Large-scale laundry facilities and industrial operators

▲ Output capacity customized based on facility water volume requirements.

## 10L Model (10L / per hour )

Produces 10L of ionized water per hour, PCB-controlled, plug-and-play, ideal for hotels, restaurants, and commercial spaces.



- Small to mid-sized hospital wards, household.
- Boutique hotels · Serviced apartments
- Clinics · Dental · Veterinary · Long-term care facilities
- Pilot deployment

## Equipment Specification

### **Industrial Model ( 30L · 120L · 300L · 900L / per hour )**

Available in 30L, 120L, 300L, and 900L per hour, PLC-controlled — custom configurations available based on your facility's water volume requirements.



- Hospital central laundry rooms
- Hotel chains · Resorts
- Commercial laundry operators
- Industrial textile processing facilities



## Assessment

Share your laundry workflow, machine specifications, and water consumption data. We calculate your projected savings on energy, water, and detergent costs.



## Quotation & Layout Plan

We provide a tailored proposal with recommended system configuration, cost breakdown, and facility layout plan.



## Shipping & Installation

We coordinate international shipping and on-site installation. Local partnership networks are currently being established to support faster deployment.





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