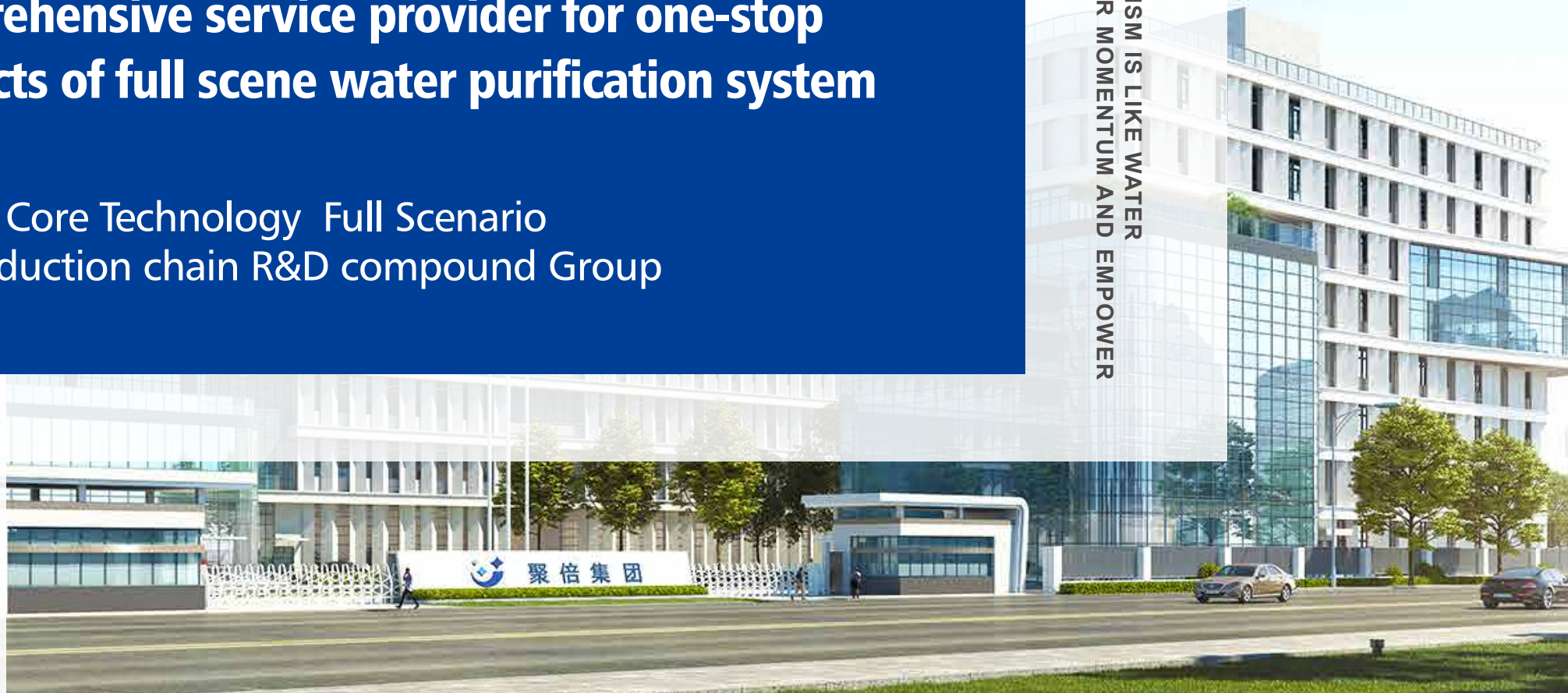
聚倍科技集团
JUBEI TECHNOLOGY GROUP

Comprehensive service provider for one-stop products of full scene water purification system

Control Core Technology Full Scenario
Full production chain R&D compound Group

ALTRUISM IS LIKE WATER
GATHER MOMENTUM AND EMPOWER



/// Company profile

Jubei Group is the world's leading comprehensive service provider of full scenario water purification system station type products, focusing on the development of cutting-edge technology, material research, intelligent research, industrial design, terminal equipment research and development, creating an intelligent manufacturing platform and supply chain ecosystem for the whole industrial chain production, and empowering its Beishi, Beirui, Beihuang Jincheng and other enterprises and institutions and more than ten subsidiaries jointly provide product and valued services for global first-line brands.

Leader unit for drafting 7 industry group standards of National Health Industry Enterprise Management Association

- ★ Household and similar pre filters without disassembly and cleaning (group standard drafting team leader)
- ★ Purified shower for household and similar purposes (vice group leader in drafting group standards)
- ★ Ultrasonic water leakage protector for household and similar purposes (group standard drafting team leader)
- ★ Household and similar water scale inhibition filters (group standard drafting team
- ★ Intelligent Internet of Things prefilter for household and similar purposes (group standard drafting team leader)
- ★ Prefilter（group standard drafting team leader）
- ★ Deputy leader unit of the group standard of （effluent quality standard of water quality processor）

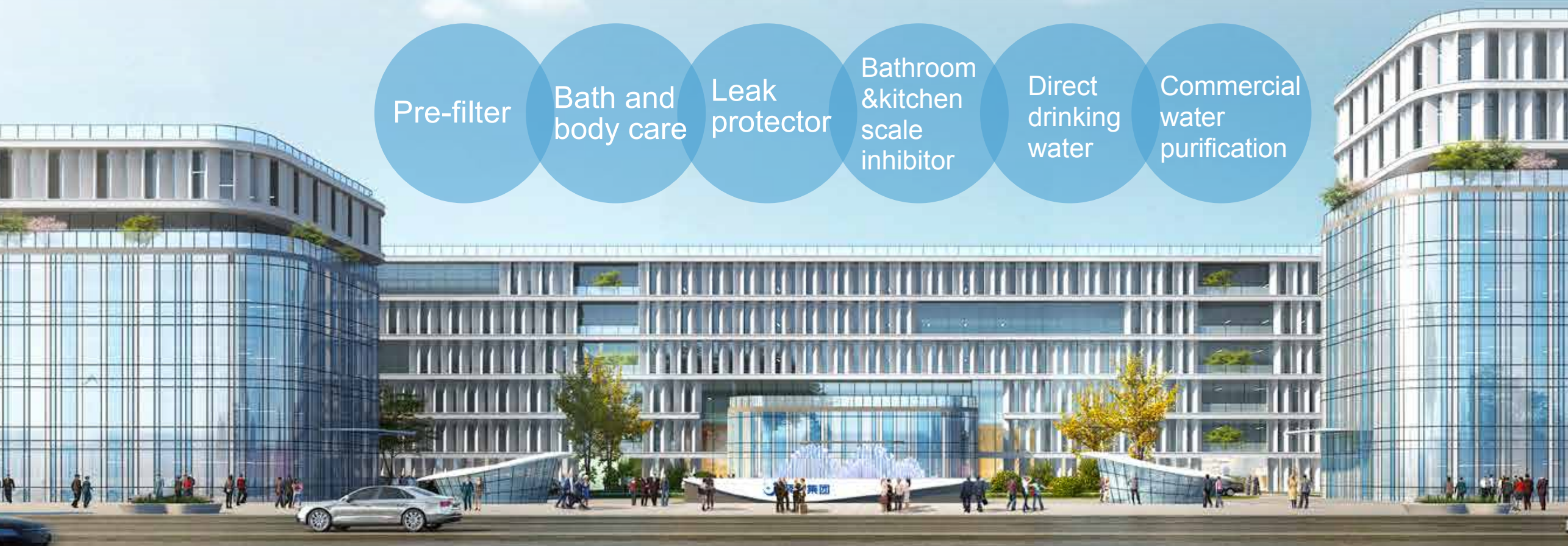
600 +
National patented technology

500 +
The common choice of first-line brands

1500 Million
Units annual manufacturing capacity

7 Industry
Group standards drafting team leader units

8 years of continuous doubling growth



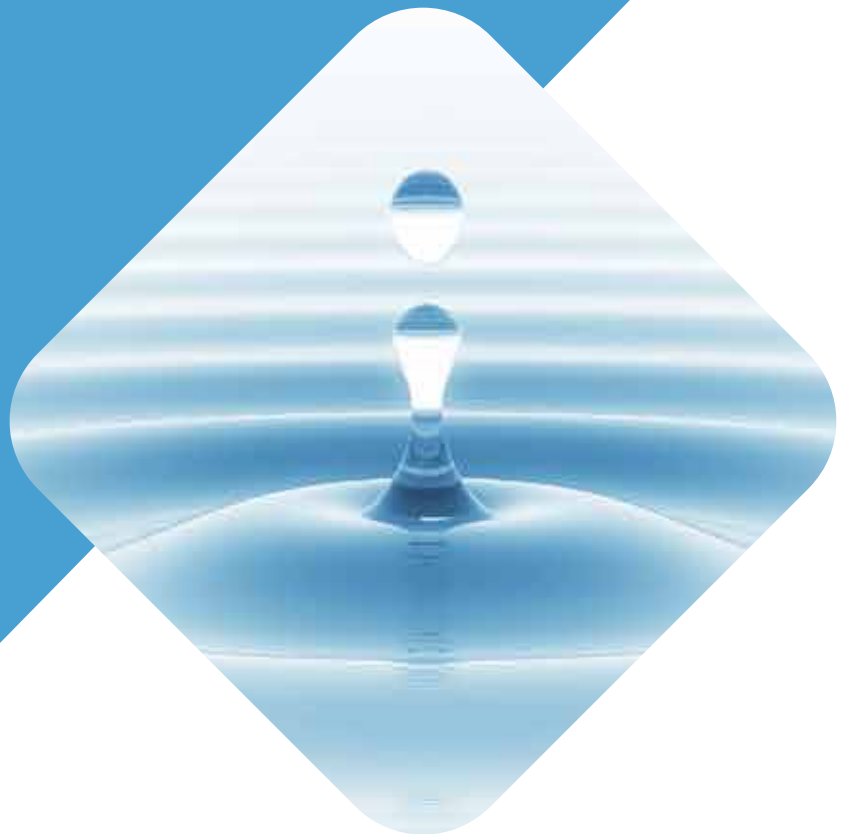
M3 Scale Inhibitor New Product Promotion Program



M3 Scale Inhibitor Series



Catalogue



1 Technological Analysis

2 M3-A Smart Toilet Scale Inhibition Mate

3 M3-B Smart Toilet Scale Inhibition Mate

Technological Analysis



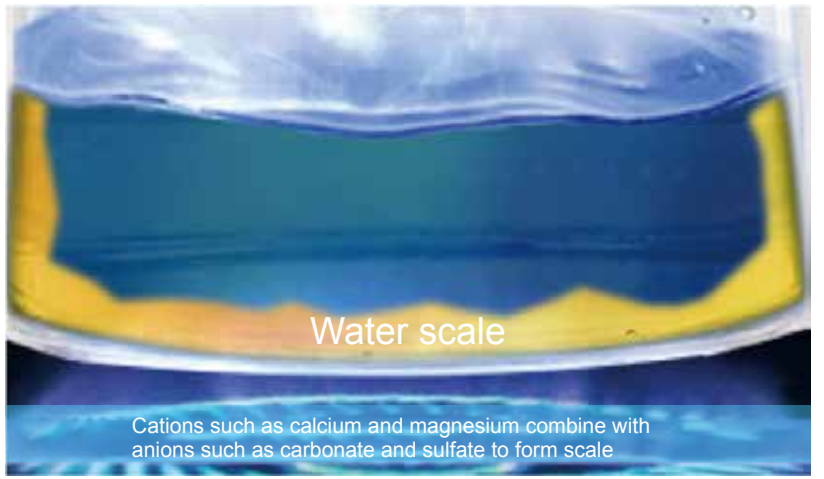
Principle

Water Scale Formation

After the container boils water for many times, the water contains calcium sulfate (CaSO4) that is slightly soluble in water and precipitates due to the evaporation of water, and the previously dissolved calcium bicarbonate (Ca(HCO3)2) and magnesium bicarbonate (Mg(HCO3)2) , decompose in boiling water, release carbon dioxide (CO2), generate insoluble calcium carbonate (CaCO3) and magnesium hydroxide (Mg(OH)2) also precipitate, and sometimes generate MgCO3. This forms water scale.

THE PRINCIPLE OF WATER SCALE FORMATION





THE WATER SCALE HAZARD



Corrosion of pipe walls（The metal wall）

Scale adheres to the metal pipe wall, corrodes under the water scale, and shortens the service life of the equipment.



Increase energy consumption

One millimeter of the water scale results in 20% heat loss.



Clogged pipes caused by water scale

Affect the normal operation of the equipment.



The growth of bacteria

The surface of the water scale is uneven, which is easy to breed various bacteria and affect health.



Be harmful to the health

When the water scale enters the human body, it will damage the stomach and intestines, affecting health.



Be harmful to the health

When the water scale enters the human body, it will damage the stomach and intestines, affecting health.

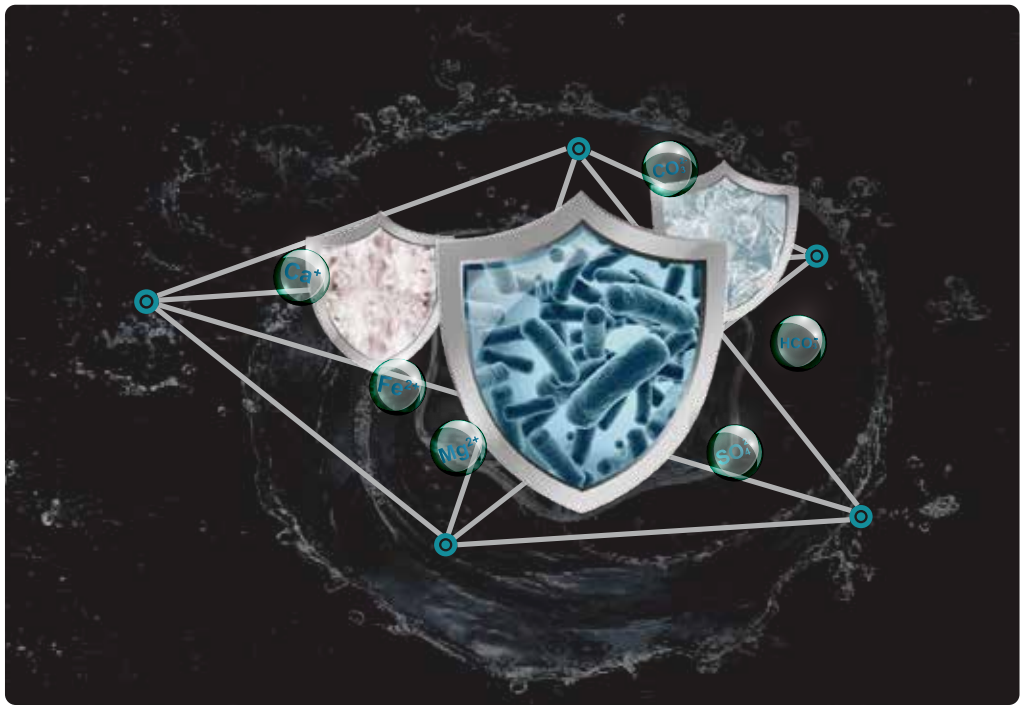
The water scale is a lingering problem in people's daily life, and products that are closely related to people, such as kettles, water heaters, water pipes, faucets, showers, and water heaters, are all threatened by scale;

The industrial ex-factory value of civil water purification products has exceeded 30 billion yuan, but the scale-inhibiting products applicable to whole-house and household heating devices other than drinking water are almost zero.

SLOW RELEASE SCALE INHIBITION TECHNOLOGY OF BIOACTIVE MOLECULES

MSAP, say goodbye to the age of scale!

MSAP is made of bioactive materials modified by special process. It is slowly dissolved and released in water to produce a large number of weak electron groups. It can interact between with cations such as copper ion, iron ion, calcium ion and magnesium ion and anions such as carbonate ion, bicarbonate ion and sulfate ion to produce weak electric interference effect, which can quickly inactivate the scaling factors in water, Only a very small amount of MSAP can fundamentally eliminate the generation of scale.



MSAP SCALE INHIBITOR FILTER MATERIAL

TECHNICAL CHARACTERISTICS OF MSAP SCALE INHIBITOR

BIOACTIVE MATERIALS

Safe, non-toxic and harmless

Food grade safe and worry-free Phosphorus-free, environmentally friendly.

STABILITY

No fear of high temperature and high PH

No effect on scale inhibition efficiency at high pH and high temperatures.

SUPER SCALE INHIBITION

Laboratory scale inhibition rate of 99%

The scale inhibition rate can reach more than 99% under the experimental condition of national standard hard water, and each gram can filter 2 tons of water.

MULTIPLE FORMS

Unique flake

The unique compression form can be widely used in various internal and external devices.

EFFICIENT SLOW RELEASE TECH

High-speed release, slow-release and long-lasting

0.23PPM in 0.3 seconds with water lasting for 48 hours slow release to saturation concentration.

M3-B
Smart Toilet Scale Inhibition Mate



SPECIAL DESIGN FOR INTELLIGENT TOILETS

Filtering, purification, water scale inhibiting all in one

Intelligent Toilet Scale Inhibiting
M3-B (Double water path design)



Intelligent Toilet Scale Inhibiting

M3-B （Integrated dual water path design）

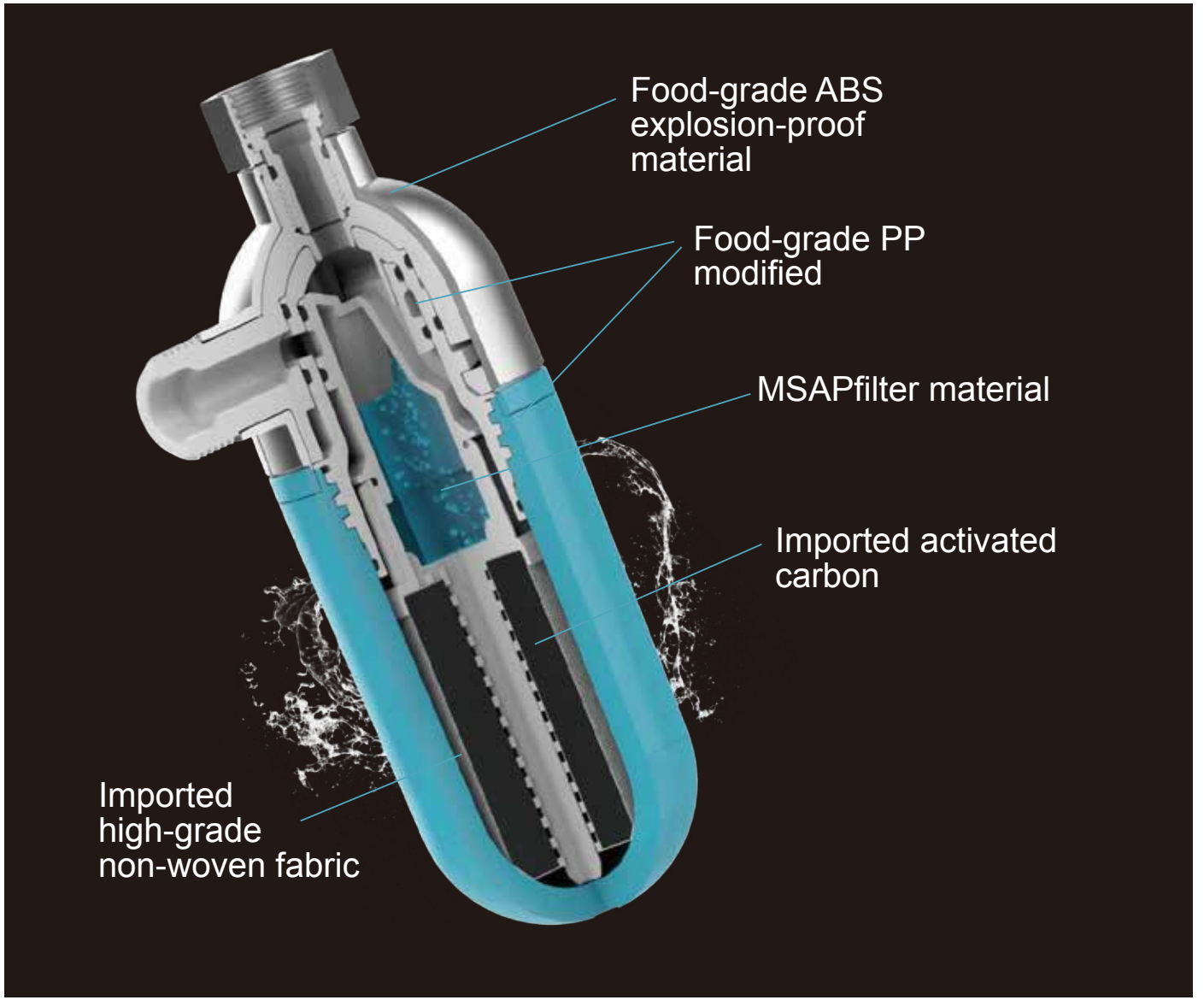


Runner Design

Principle

Split Flow
Independent Filter Element

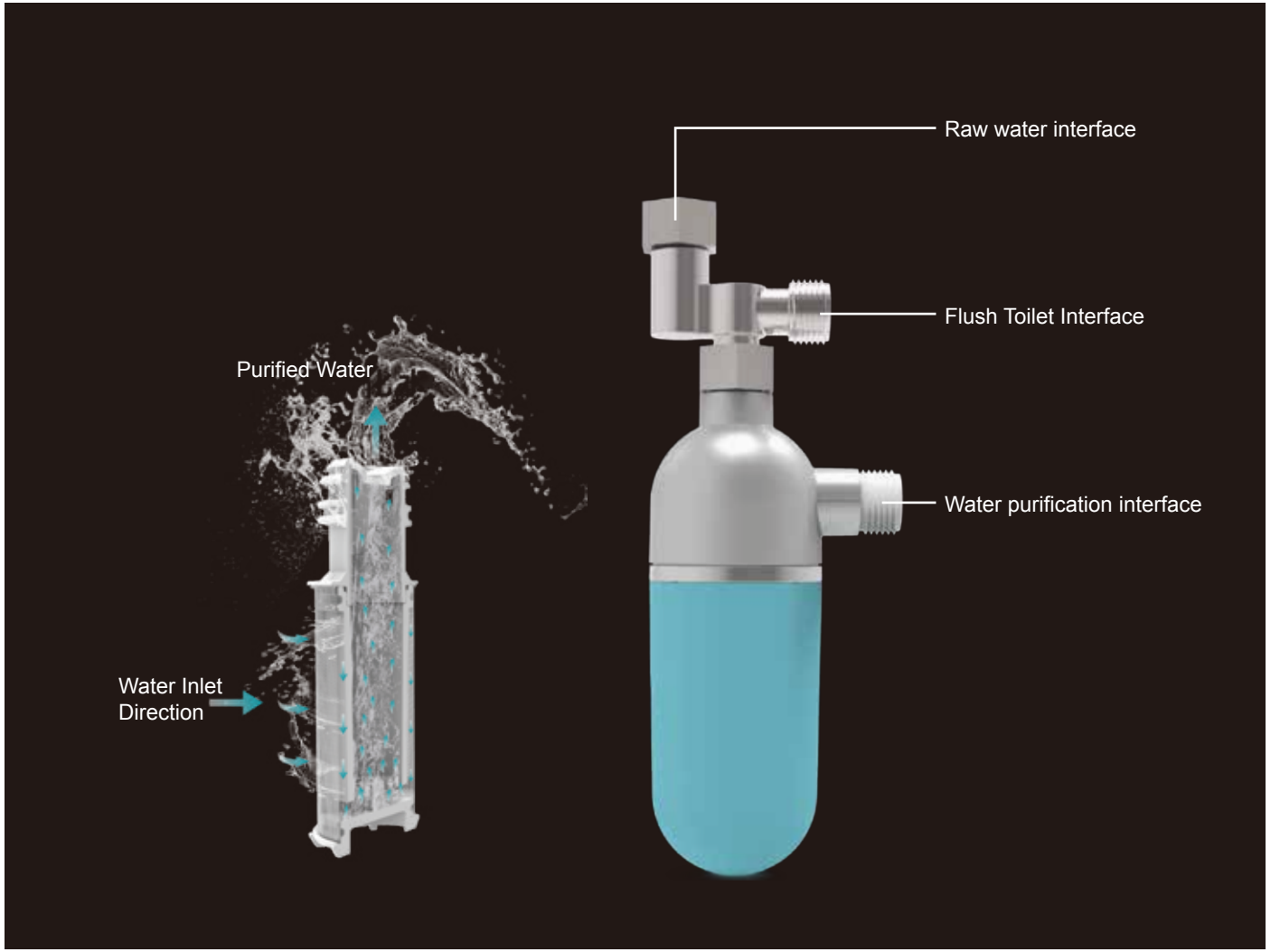
The patented technology of split-flow independent filter element, the raw water and purified water, the water path is separated, and the high-efficiency filtration is at the same time, the water flow is smoother, and the flushing is more hygienic.



Runner design

Double waterway design
Cleaner and more at ease

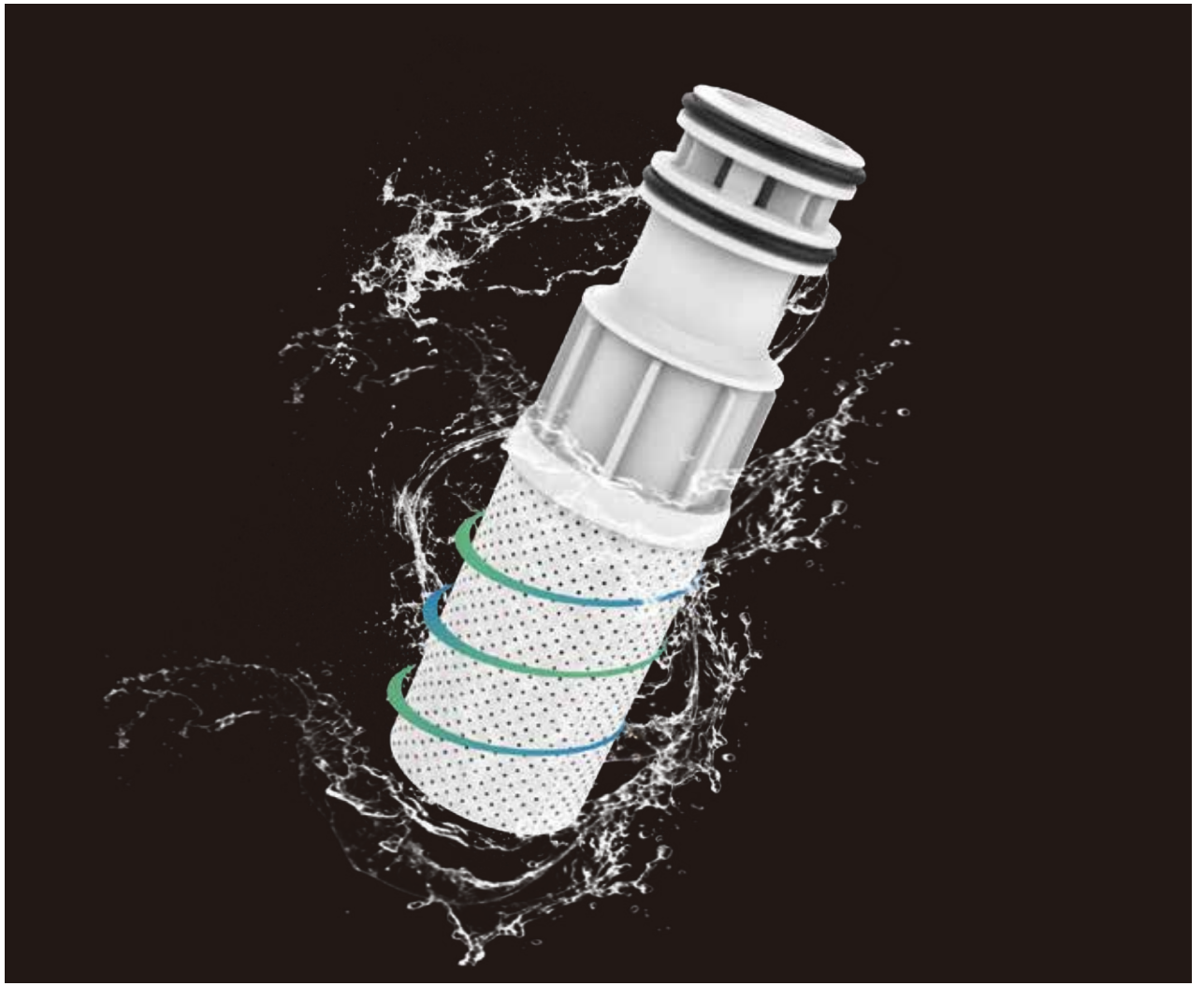
Adopt double water circuit design,
raw water flushes the toilet,
purified water cleans the body.



Scale Inhibitor Filter Material

MSAP filter material Efficient scale inhibition

The scale inhibition rate is over 99% under the MSAP laboratory conditions using MSAP scale inhibitor material.



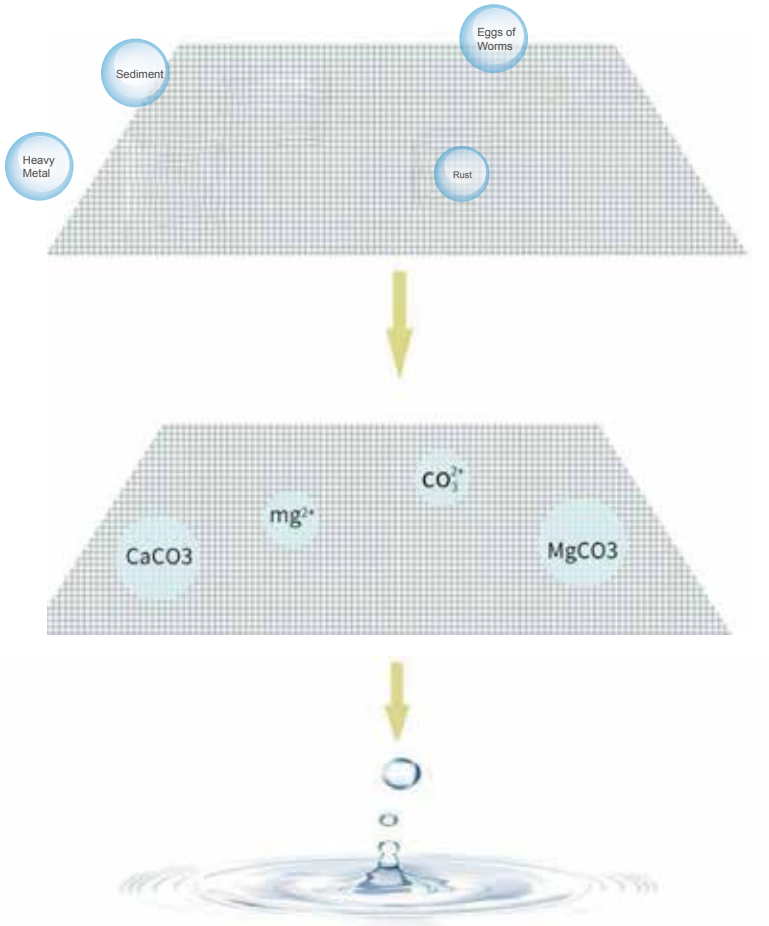
Scale Inhibitor Filter Material

Activated carbon filter element removes residual chlorine and lead.

The filter screen adopts imported activated carbon filter element, which can effectively block particulate impurities and suspended solids in addition to residual chlorine and lead.



Imported activated carbon



Product Structure



M3-B Suitable for smart toilet

Product Parameter



Model B is equipped with his filter element

All-in-one design

With dispense valve

Product feature:

★The composite imported activated carbon filter element is equipped with MASP food-grade bioactive scale-inhibiting filter material, which can not only filter particles above 15 microns, but also effectively inhibit scale, effectively remove residual chlorine, and protect skin quality;

★ 16 liters of super-large water per minute to meet the household bath water consumption;

★ 40μm fine filter, made of 316L stainless steel, to filter impurities such as suspended solids and particulate matter;

★ The filter element is more durable, the scale-free water volume can reach 30 tons, and the replacement is convenient;

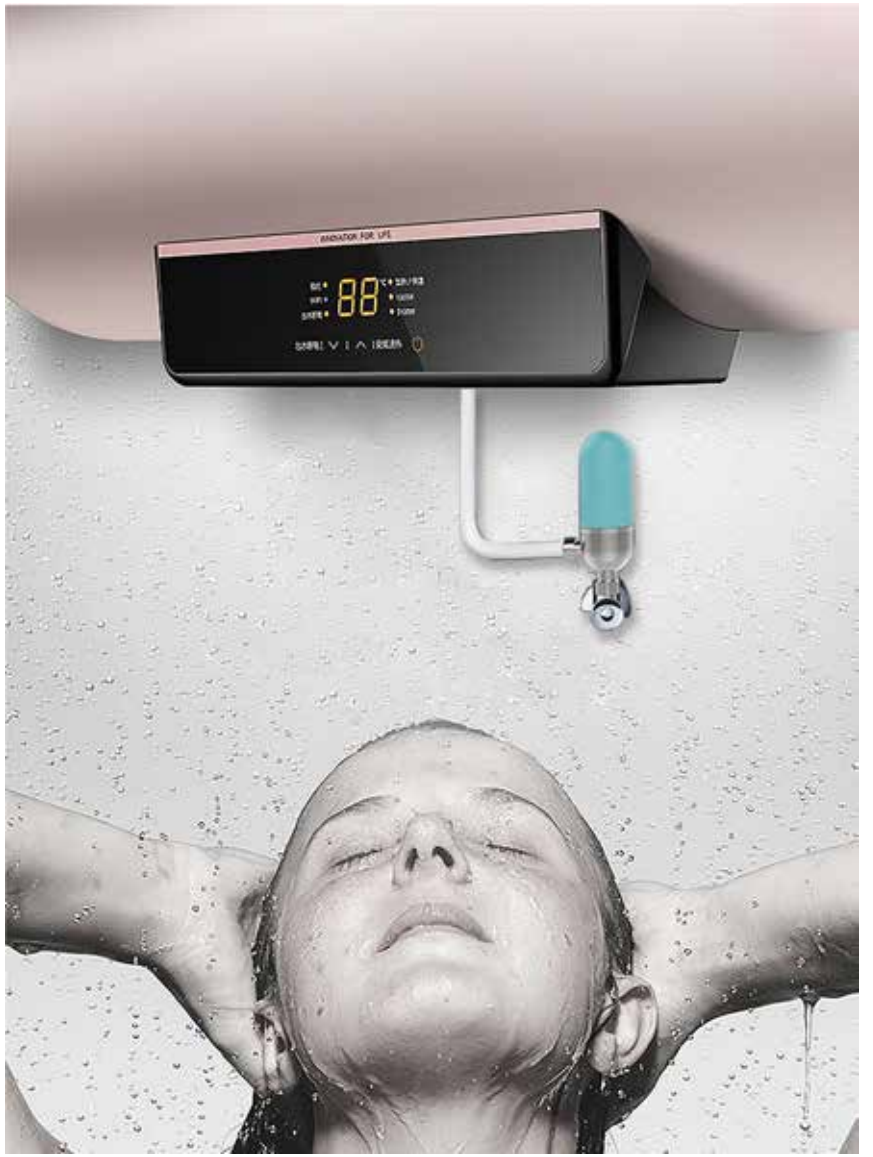
★ The bottle body is made of food-grade PP material, which is durable;

Applicable Water Quality	Filtration Precision	Flow Rate
Municipal tap water	40-50 μm	16L /min
Replacement Period	**Ambient Temperature**	**Rated working water pressure**
8-12 months or 30 tons total water filtration	1℃ ~ 50℃	0.15 -0.75MPa

M3-A
Smart Toilet Scale Inhibition Mate



WATER HEATER APPLICATION SCENARIO



WASHING MACHINE APPLICATION SCENARIO



DISHWASHER APPLICATION SCENARIO



BASIN APPLICATION SCENARIO

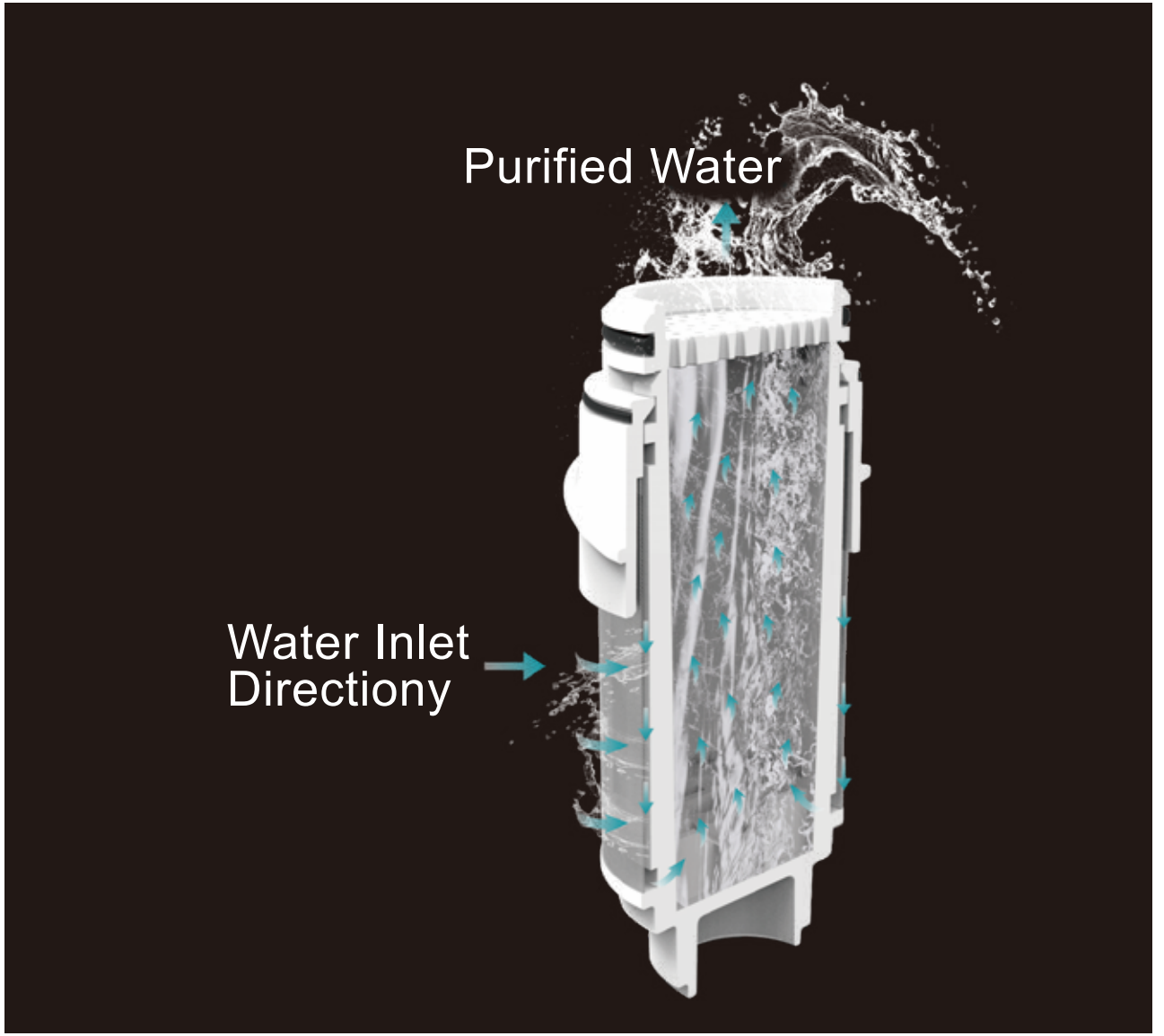


Runner Design

Patent

Spiral inlet
Folded flow path design

The water inlet method adopts the spiral water inlet method, which flushes the filter screen to prevent the filter screen from being blocked. The inlet water is folded through the flow channel and enters the filter element from the bottom uniformly, and the purified water filtered by the filter element is discharged from the top.



Runner Design

Principle

Shunt
Independent Filter

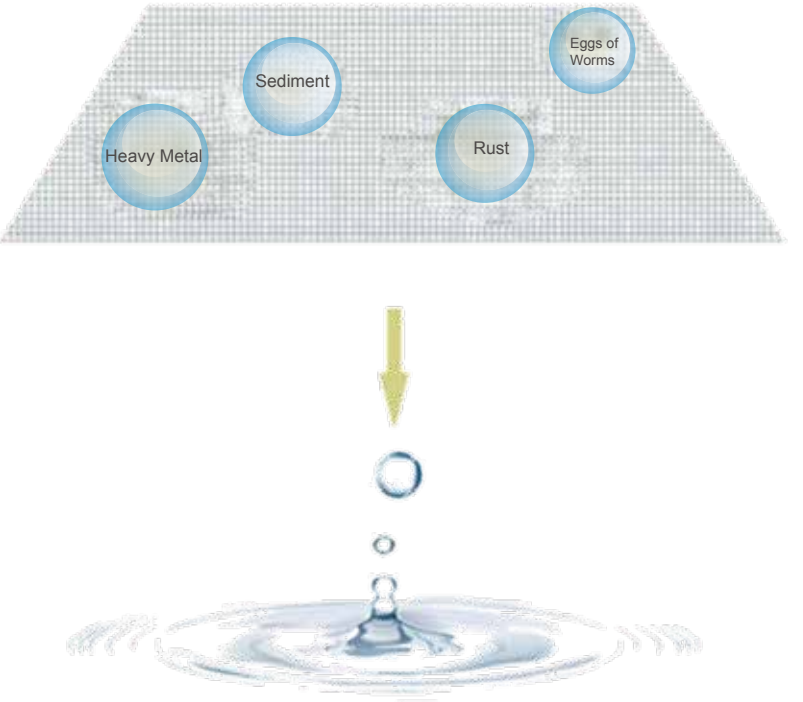
The patented technology of split-flow independent filter element separates raw water and purified water.



MATERIAL OF FILTER

316L Stainless Steel Strainer

The filter is made of 316L medical grade stainless steel, which is resistant to acid and alkali, corrosion, and is not easy to rust. The precision 40 micron stainless steel filter can effectively intercept impurities such as rust, sediment, and red worms in the water.



PRODUCT STRUCTURE



The cap is made of ABS material, which can withstand pressure freezing and high pressure explosion-proof test

Food-grade SS316L stainless steel

The bottle body is made of food-grade PP material, which can withstand pressurized freezing and high-pressure explosion-proof test

M3-A Universal version Suitable for water heaters, washing machines, sink dishwashers, etc.

Product Parameter



Model B is equipped with his filter element



All-in-one design

Product feature:

★ Food-grade MSAP bioactive molecular scale inhibition technology, efficient scale inhibition, protects water equipment from scaling;
★ Universal type of angle valve to solve the scale inhibition requirements of various equipment;
★ 16 liters of super-large water per minute to meet the water consumption needs of domestic water heaters, wall-hung boilers, smart toilets, washing machines, dishwashers, ultrafiltration equipment, etc.;
★ 40 μ m fine filter, made of 316L stainless steel, to filter impurities such as sus pended solids and particulate matter;
★ The filter element is more durable, the scale-free water volume can reach 30 tons,and the replacement is convenient;
★ The bottle body is made of food-grade PP material, which is durable.

Applicable Water Quality	Filtration Precision	Flow Rate
Municipal tap water	40-50 μm	16L /min
Replacement Period	**Ambient Temperature**	**Rated working water pressure**
12 months or 30 tons total water filtration	1℃ ~ 50℃	0.15 -0.75MPa

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利他如水 聚势赋能

ALTRUISM IS LIKE WATER
GATHER MOMENTUM AND EMPOWER

