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**Aquacare (Ningbo) Filtratech Co. Ltd**

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**FILTER**  
BROCHURE



## Company Profile

Aquacare (Ningbo) Filtratech Co., Ltd specializes in the research, development and production of various specifications of filter materials and functional filter elements. We meet customers' needs for water purification/fluid separation through various cooperation models including OEM/ODM.

Our core team consists of industry veterans and PhD professional with over twenty years of experience in R&D and manufacturing in the area of filter material and water filtration. Based on our innovation-driven growth strategy, Aquacare strives to deliver our customers with tailored and affordable filter products & solutions through continuous technological research and product iteration.

For Aquacare, quality matters more than quantity. Aquacare strictly implements QC management system from supply chain to manufacturing to meet customers' demand for quality and performance. Our customers include Fortune 500 companies and leading global water groups.

**Aquacare offers various filter cartridge products and one-stop solution including:**

### A Single filter element

- \*Carbon block with various specification and performance
- \*Functional carbon block (with add-on features such as antibacterial, mineralization, descaling, dechlorination, defluoridation, lead removal, and cryptozoite removal)
- \*Activated carbon fiber (ACF) filters with different shapes and performance
- \*Ceramic filters
- \*Pleated filter cartridges
- \*Swimming pool/SPA filters
- \*Reverse osmosis membrane elements

### C Integrated filter with different combination such as

- \*2-in-1    \*3-in-1
- \*4-in-1    \*5-in-1

In addition to standardized series filter element products, Aquacare can also provide personalized product solutions according to the specific needs of customers in purification, separation, decolorization, deodorization in the fields including household, commercial, food & beverage, medical, industrial water treatment.

## Advanced Production



# Full Range Products

- ◆ Carbon block filter (dechlorination based)—KA Series
- ◆ Carbon block filter (with anti-scaling boost)—KS Series
- ◆ Carbon block filter (with anti-bacterial boost)—KB Series
- ◆ Carbon block filter (with lead and cryptozoite removal)—KH Series
- ◆ Carbon block filter (with defluorination boost)—KF Series
- ◆ Carbon block filter (with mineralization boost)—KM Series
- ◆ Granular activated carbon filter cartridge (UDF)—KG Series
- ◆ Composite pleated PP carbon block filter BB—CPC Series
- ◆ Composite ceramic carbon block filter—CCC Series
- ◆ Post activated carbon filter cartridge—KT Series
- ◆ Refrigerator water filter—KR Series
- ◆ Activated carbon fiber (ACF) filter—FA Series
- ◆ ACF shower head filter—FS Series
- ◆ Flake ACF filter—FF Series
- ◆ RO membrane element—ARO Series
- ◆ Pleated pool & SPA filter—PS Series
- ◆ High-flow pleated filter element—PH Series

# Broad Applications

- Residential water purification
- Commercial water purification
- Industrial water purification
- Liquid separation



\*Cartridges and filters of different categories and specifications can be ordered or customized by OEM/ODM catering to your need.



## Carbon Block Filter (Dechlorination Based)-KA Series

Using NSF certified high-grade coconut shell activated carbon and food-grade UHMWPE bonding material, KA series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants, ensuring clean and safe drinking water through significant water quality improvement.

### Feature

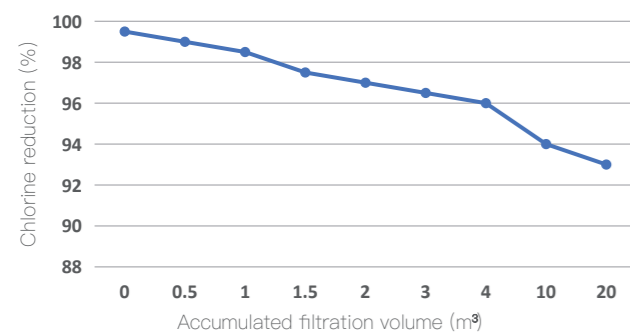
- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively reduce particles
- \*High dirt holding capacity
- \*With anti-bacterial function
- \*Improve water taste
- \*No black color water resulted from carbon powder leakage

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 3-5µm

### Performance Diagram

Reduction of residual chlorine vs. Accumulated filtration volume



### Material of Components

- \*Carbon: high grade coconut shell carbon powder
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

### Dimensions

- \*End cap outer diameter (mm): 50/60/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 9.75/10/20

### Application

- \*Residential water purifier
- \*UF water purifier
- \*Beverage, dairy, medicine...



## Carbon Block Filter (with anti-scaling boost)-KS Series

Using NSF certified high-grade coconut shell activated carbon and food-grade UHMWPE bonding material, KS series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants. Prepared using safe sustained-release anti-scale formulations, scaling problem can be inhibited ensuring clean and safe drinking water through significant water quality improvement.

### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively reduce particles
- \*High dirt holding capacity
- \*Prevent water from scaling
- \*No black color water resulted from carbon powder leakage

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 5-10µm

### Application

- \*Point of use, whole house water purification, commercial water purification
- \*Upstream of residential UF or RO water purifier
- \*Used with electric water heater, floor heating system, solar water heater
- \*Washing machine, smart toilet
- \*Beverage, dairy, medicine...

### Material of Components

- \*Filter media: high grade coconut shell carbon powder, safe anti-scale formulations
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

### Dimensions

- \*End cap outer diameter (mm): 50/66/70/120
- \*End cap inner diameter (mm): 16/28/28/30
- \*Length ("): 9.75/10/20/40



### Carbon Block Filter (with anti-bacterial boost) -KB Series

Using NSF certified high-grade coconut shell activated carbon and food-grade UHMWPE bonding material, KB series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants. Impregnated using anti-bacterial formulations, microorganism growth can be inhibited ensuring clean and safe drinking water through significant water quality improvement.

#### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively reduce particles and colloids
- \*High dirt holding capacity
- \*With anti-bacterial function
- \*No black color water resulted from carbon powder leakage

#### Material of Components

- \*Filter media: high grade coconut shell carbon powder, nano anti-bacterial formulation
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

#### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1-5µm

#### Application

- \*Residential water purifier, outdoor water purification
- \*Beverage, dairy, medicine...

#### Specification

- \*End cap outer diameter (mm): 50/66/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 9.75/10/20

- \*UF water purifier



### Carbon Block Filter (with lead and cryptozoite removal) -KH Series

Using NSF certified high-grade coconut shell activated carbon and food-grade UHMWPE bonding material, KH series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants. Prepared using dedicated resin formulations, lead and cryptozoite can be removed ensuring clean and safe drinking water through significant water quality improvement.

#### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively remove lead and cryptozoite
- \*Effectively reduce particles and colloids
- \*High dirt holding capacity
- \*No black color water resulted from carbon powder leakage

#### Material of Components

- \*Filter media: high grade coconut shell carbon powder, nano resin formulation
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

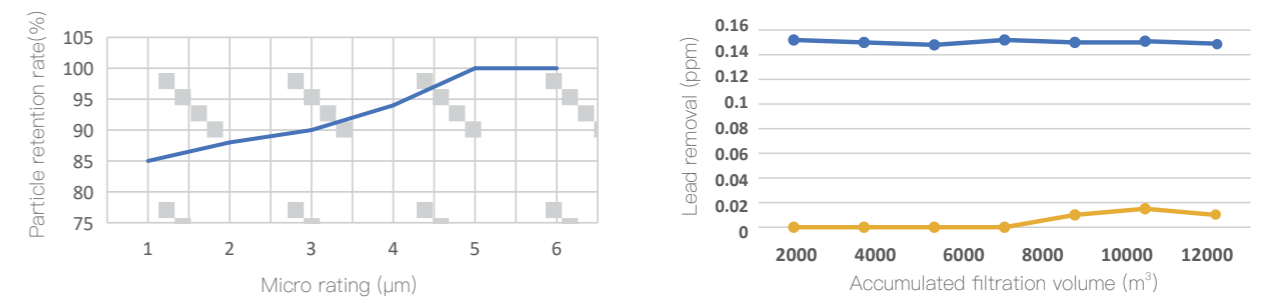
#### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1µm

#### Dimensions

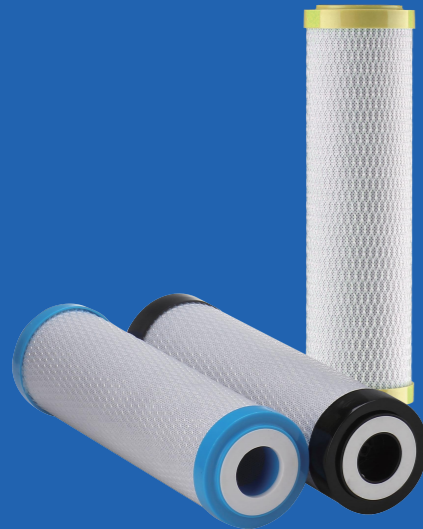
- \*End cap outer diameter (mm): 50/66/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 9.75/10/20

#### Performance Diagram



#### Application

- \*Residential water purifier
- \*Whole house water purification



### Carbon Block Filter (with defluorination boost) -KF Series

Using NSF certified high-grade coconut shell activated carbon and food-grade UHMWPE bonding material, KF Series series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants. Prepared using defluorination formulations, fluorine can also be removed ensuring clean and safe drinking water through significant water quality improvement.

#### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively reduce particles and colloids
- \*High dirt holding capacity
- \*With anti-bacterial function
- \*No black color water resulted from carbon powder leakage

#### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1µm

#### Application

- \*Residential water purifier
- \*Food & Beverage, medicine, chemical, electronics, electroplate...

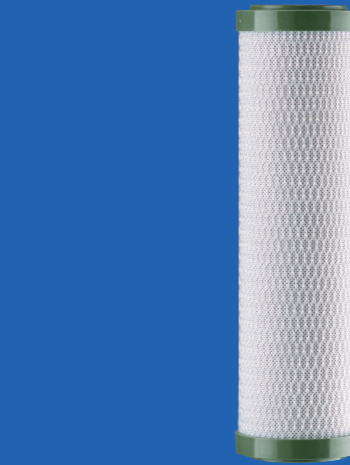
#### Material of Components

- \*Filter media: high grade coconut shell carbon powder, defluorination formulations
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

#### Dimensions

- \*End cap outer diameter (mm): 50/66/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 9.75/10/20

- \*Commercial water purification



### Carbon block filter cartridge (mineralization type)-KM Series

Using NSF certified high-grade coconut shell activated carbon and food-grade UHMWPE bonding material, KM series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants. Prepared using dedicated mineral formulations, alkaline water and beneficial mineral can be produced ensuring clean and healthy drinking water.

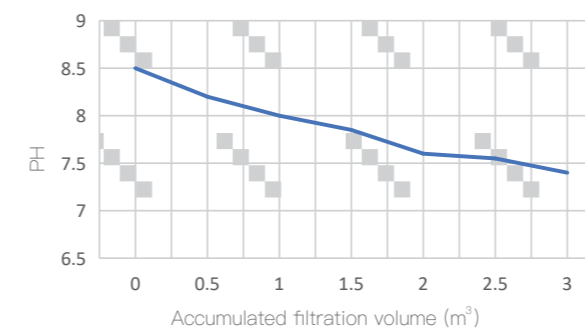
#### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Alkaline water and beneficial minerals
- \*Effectively reduce particles and colloids
- \*Improve water taste
- \*No black color water due to carbon powder leakage

#### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1µm

#### Performance Diagram



#### Material of Components

- \*Filter media: high grade coconut shell carbon powder, mineral formulation
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

#### Dimensions

- \*End cap outer diameter (mm): 50/66/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 9.75/10/20

#### Application

- \*Residential water purifier
- \*Commercial water purification
- \*Food & Beverage industrial
- \*Post filter downstream of RO



## Granular Activated Carbon Filter Cartridge (UDF)-KG Series

Using NSF certified high-grade coconut shell activated carbon, KG Series series UDF can efficiently remove residual chlorine, THMs and most organic contaminants. Typically used as pre-filtration upstream of RO, the lifespan of membrane can be significantly extended ensuring clean and safe drinking water through significant water quality improvement.

### Feature

- \*Significantly removing chlorine, organic contaminants, foul odor and smell
- \*High flow rate
- \*Improve the taste of water
- \*No black color water resulted from carbon powder leakage

### Material of Components

- \*Filter media: high grade coconut shell activated carbon
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Activated carbon granule (mesh size): 10 X 20 & 10 X 30

### Application

- \*Residential water purifier
- \*Food & Beverage, chemical...

### Dimensions

- \*Outer diameter (mm): 60-70
- \*Length ("): 9/10/20

- \*Commercial water purification



## Composite Pleated PP Carbon Block Filter BB-CPC Series

Using NSF certified high-grade coconut shell activated carbon and pleated PP, CPC series filters can efficiently remove residual chlorine, THMs and most organic contaminants. Integrated with pleated PP, particles, rust and colloids can be significantly reduced ensuring clean and safe drinking water.

### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively reduce particles, rust and colloids
- \*High dirt holding capacity
- \*No black color water resulted from carbon powder leakage

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 5µm

### Application

- \*Point of use
- \*Whole house water purification

### Material of Components

- \*Filter media: high grade coconut shell carbon powder, pleated PP
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner and outer wraps: PP
- \*Nettings: PE

### Dimensions

- \*End cap outer diameter (mm): 110
- \*End cap inner diameter (mm): 30
- \*Length ("): 10/20

- \*Commercial water purification
- \*Beverage, dairy, coffee & tea shop



## Composite Ceramic Carbon Block Filter-CCC Series

Using NSF certified high-grade coconut shell activated carbon, CCC series carbon block can efficiently remove residual chlorine, THMs and most organic contaminants. Integrated with ceramic filter at out layer, contaminants like particles, rust, colloids, bacterial and virus can be significantly reduced ensuring clean and safe drinking water.

### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Effectively reduce particles, rust, colloids, bacterial, cryptozoite, virus
- \*No black color water resulted from carbon powder leakage

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 0.2-1µm

### Application

- \*Point of use, esp counter-top water purifier
- \*Beverage, dairy, coffee & tea shop

### Material of Components

- \*Filter media: high grade coconut shell carbon powder, ceramic membrane
- \*End caps: PP
- \*Sealing gasket: NBR or silicone rubber

### Dimensions

- \*End cap outer diameter (mm): 50/66/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 5/10/20

- \*Portable water purifier



## Post Activated Carbon Filter Cartridge-KT Series

Using NSF certified high-grade coconut shell activated carbon, KT series filters can efficiently remove residual chlorine, THMs and most organic contaminants. Besides, taste of the filtered water can be improved ensuring both clean drinking water and better drinking experience.

### Feature

- \*Excellent adsorption capability
- \*Satisfactory water taste
- \*No black color water resulted from carbon powder leakage

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1-3µm (12X40 mesh)

### Application

- \*Post filter downstream of RO
- \*Beverage, dairy, coffee & tea shop

### Material of Components

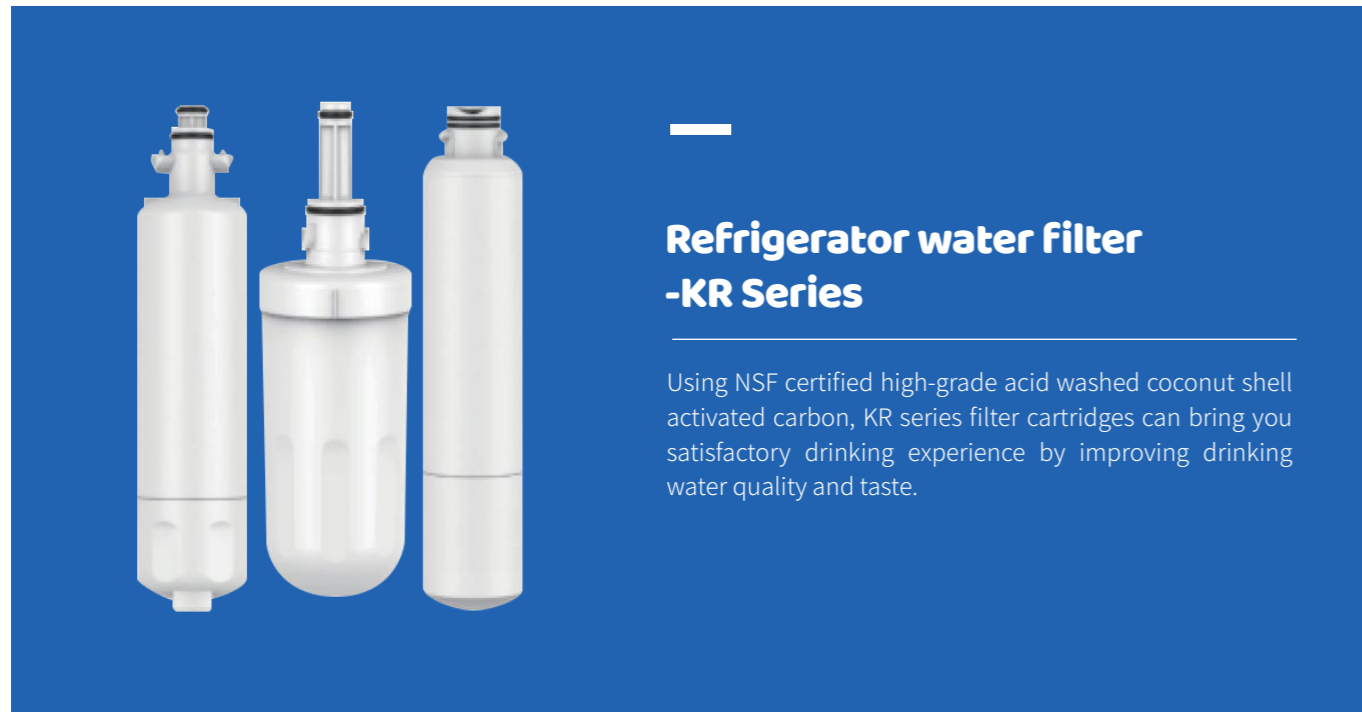
- \*Filter media: high grade coconut shell carbon powder
- \*End caps: PP
- \*Outer cover: PP
- \*Sealing gasket: NBR or silicone rubber

### Dimensions

- \*Diameter (mm): 62/66
- \*Length ("): 275/312

- \*Post filter downstream of UF





## Refrigerator water filter -KR Series

Using NSF certified high-grade acid washed coconut shell activated carbon, KR series filter cartridges can bring you satisfactory drinking experience by improving drinking water quality and taste.

### Feature

- \*Excellent adsorption capability
- \*Significantly remove chlorine, foul odor and smell
- \*Satisfactory water taste
- \*No black color water resulted from carbon powder leakage

### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1µm

### Application

- \*Refrigerators

### Material of Components

- \*Filter media: high grade coconut shell carbon powder
- \*End caps: PP
- \*Outer cover: PP
- \*Sealing gasket: NBR or silicone rubber

### Dimensions

- \*End cap outer diameter (mm): 50/66/70
- \*End cap inner diameter (mm): 16/28/28
- \*Length ("): 9.75/10/20



## Activated carbon fiber filter -FA Series

Activated carbon fiber (ACF) is a new generation of activated carbon. More than 90% of ACF surface is composed of relatively uniform micropores with pore size less than 2nm. FA series ACF adsorption capacity is up to 10 times higher than that of granular activated carbon. Besides, FA series ACF can remove contaminant at a concentration as low as ppb. The adsorption rate of FA series ACF is ten to a hundred times higher than that of granular activated carbon.

### Feature

- \*Significantly remove chlorine, organic contaminants, foul odor and smell
- \*Excellent adsorption capability achieved by large specific surface area
- \*High flow and low water pressure drop
- \*Long service time
- \*No black color water

### Applicable Conditions

- \*Water temperature: 5-60°C
- \*Inlet water pressure: 0.1-1.0 MPa
- \*Nominal micro rating: 5-20µm

### Application

- \*Residential water purification
- \*Commercial water purification

### Material of Components

- \*Filter media: high grade ACF
- \*End caps: PP
- \*Internal support: PP, PE
- \*Outer cover: non-woven fabric
- \*Sealing gasket: NBR or silicone rubber

### Dimensions

- \*End cap outer diameter (mm): 50/66/70/115/140
- \*End cap inner diameter (mm): 16/28/28/30/80
- \*Length ("): 9.75/10/20/30/40/50

- \*Food & beverage
- \*Pharmaceutical, microelectronics, electroplating



### ACF shower head filter -FS Series

Using high-grade ACF media, FS series ACF shower head filter can bring you satisfactory user experience by rapidly reducing residual chlorine and foul smell.

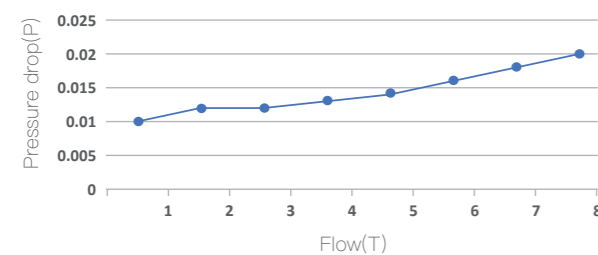
#### Feature

- \*Significantly remove chlorine, organic contaminants, foul smell
- \*Excellent adsorption performance
- \*High flow and low water pressure drop
- \*No black color water
- \*Long service life

#### Applicable Conditions

- \*Water temperature: 3-60°C
- \*Inlet water pressure: 0.1-1.0 MPa
- \*Nominal micro rating: 5-10µm

#### Performance Diagram



#### Material of Components

- \*Filter media: high grade ACF
- \*End caps: PP
- \*Outer cover: non-woven fabric

#### Dimensions

- \*Outer diameter (mm): 18-40 (or customized)
- \*Inner diameter (mm): 8-12 (or customized)
- \*Length ("): 9.75/10/20/30/40/50

#### Application

- \*Shower head
- \*Washing machine
- \*Toilet



### Flake ACF filter-FF Series

Using NSF certified high-grade ACF media and double sided compounded non-woven fabrics, FF series flake ACF filter can bring you satisfactory user experience by rapidly reducing residual chlorine and foul smell & taste.

#### Feature

- \*Efficiently remove chlorine, organic contaminants, foul odor and smell
- \*Excellent adsorption performance
- \*High flow and low water pressure drop
- \*No black color water

#### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 1µm

#### Material of Components

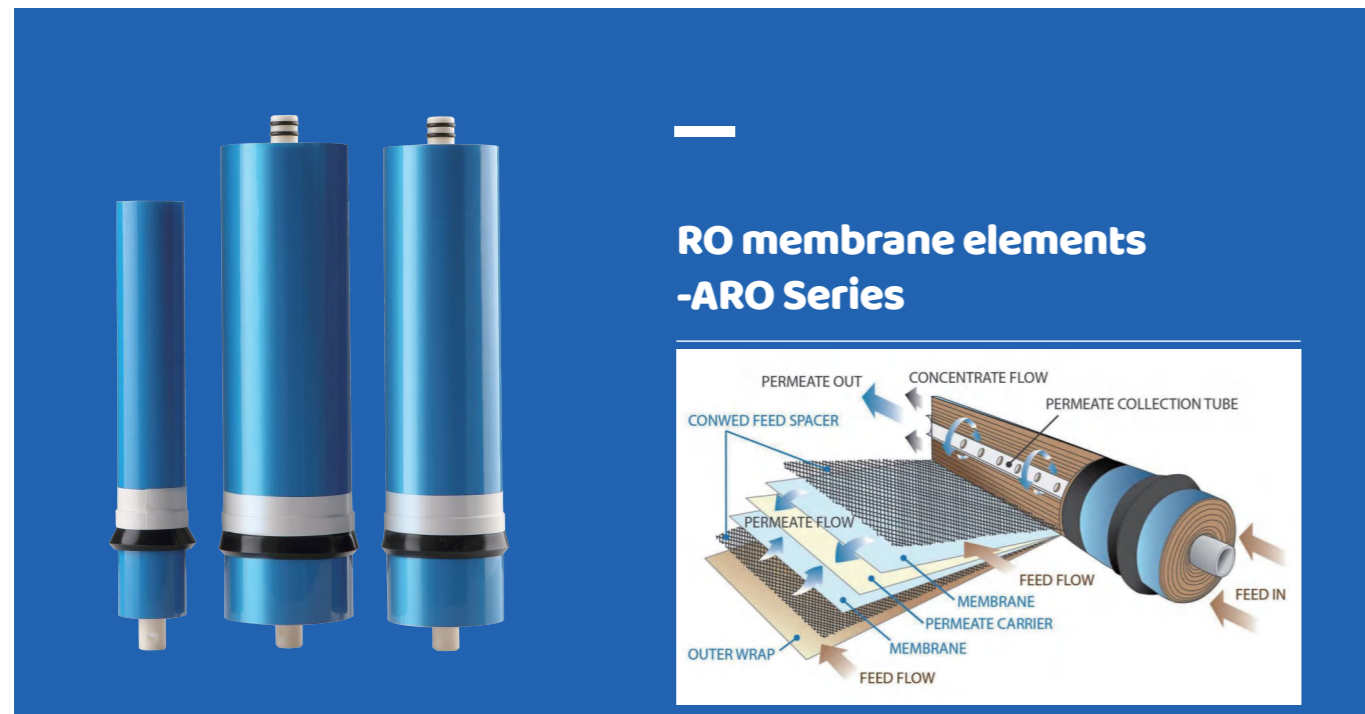
- \*ACF
- \*Non-woven fabric: PP

#### Dimensions

- \*Diameter (mm): 50/60/80 (or customized)
- \*Thickness (mm): 15/20/30 (or customized)

#### Application

- \*Water purification kettle/bottle
- \*Outdoor portable water purifier
- \*Faucet mounted water purifier



### RO membrane elements -ARO Series

#### Specification

Model	AW-1812-50	AW-1812-75	AW-1812-100	AW-1812-150	AW-2812-200	AW-2812-300	AW-2812-400	AW-3012-600	AW-4012-800	AW-5012-1200
Typical stabilized salt rejection (%)	95	95	95	95	95	95	95	95	95	95
Stabilized permeate flow rate (GPD)	50	75	100	150	200	300	400	600	800	1200
Operating pressure (psi)	65	65	65	65	65	65	80	80	80	80

#### Application

- \*Residential water purification
- \*Commercial water purification

#### Feature

- \*Standard dimensions to fit in commonly available housings
- \*Removes particles, colloids, organics, bacteria, viruses, dissolved salts (ions)
- \*Provides high rejection stability, less fouling and more consistent

#### Applicable Conditions

- \*Maximum pressure: 100 PSI (6.90 bar)
- \*Maximum temperature: 120°F (49°C)
- \*PH: 4-11
- \*Free chlorine: 0.1 ppm



### Pleated pool & SPA filter -PS Series

This filter is fabricated by folding antibacterial polyester fiber material into multiple layers. The filter can have either the end caps made of PP material or the soft end caps made using AB curing. The filter possesses excellent mechanical strength, light resistance, and high-temperature resistance. Furthermore, the filter can be reused through regular cleaning, thereby reducing both the frequency of replacement and the total usage cost.

#### Feature

- \*High efficiency filtration effect
- \*Strong dirt holding capacity and large flux
- \*Easily cleaned and recycled

#### Applicable Conditions

- \*Water temperature: 3-45°C
- \*Inlet water pressure: 0.1-0.6 MPa
- \*Nominal micro rating: 5-20µm

#### Application

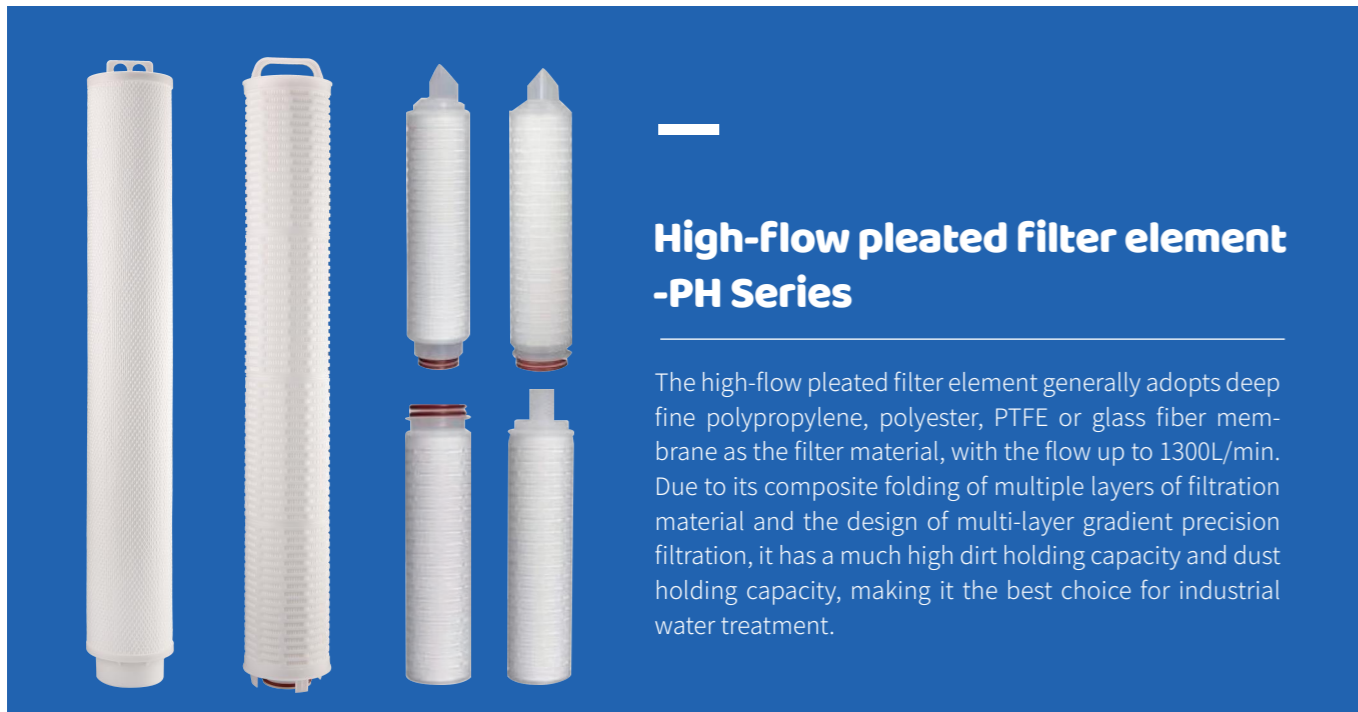
- \*Household swimming pool
- \*Public swimming pool
- \*Children SPA water circulation

#### Material of Components

- \*Filter material: PP, polyester film
- \*End cap: PP, PO
- \*Sealing gasket: NBR or silicone rubber
- \*Inner bracket: PE

#### Dimensions

- \*End cap outer diameter (mm): 143/66/90/115/143
- \*End cap inner diameter (mm): 16/28/30/50/50
- \*Length (\*): 9.75/10/100/80/253



## High-flow pleated filter element -PH Series

The high-flow pleated filter element generally adopts deep fine polypropylene, polyester, PTFE or glass fiber membrane as the filter material, with the flow up to 1300L/min. Due to its composite folding of multiple layers of filtration material and the design of multi-layer gradient precision filtration, it has a much high dirt holding capacity and dust holding capacity, making it the best choice for industrial water treatment.

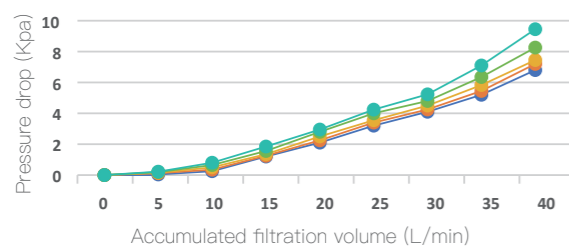
### Feature

- \*High rejection rate and large dirt holding capacity
- \*High removal rate for particles, colloids
- \*High flow and low water pressure drop
- \*Filtration precision can easily be adjusted

### Applicable Conditions

- \*Maximum operating temperature: 100°C
- \*Maximum operating pressure difference: 0.25 MPa
- \*Suggested pressure difference for replacement: 0.22 MPa
- \*Nominal micro rating: 5-20µm

### Performance Diagram



- series 1
- series 2
- series 3
- series 4
- series 5

### Material of Components

- \*Filter material: PP, PES, PTFE, GF
- \*End cap: PP
- \*Sealing gasket: NBR or silicone rubber
- \*Inner bracket: PP
- \*Outer bracket: PP

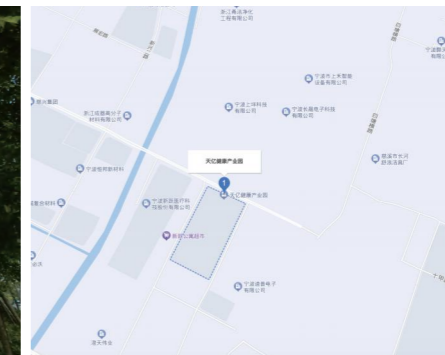
### Dimensions

- \*Outer diameter (mm): 150
- \*Inner diameter (mm): 80
- \*Length ("): 40

### Application

- \*PCB ultra pure water, deionized water
- \*Petroleum chemical, organic solvents, ink filtration
- \*Metal cutting fluid, electroplating solution, pharmaceutical industry
- \*Food & Beverage, oilfield injection water filtration

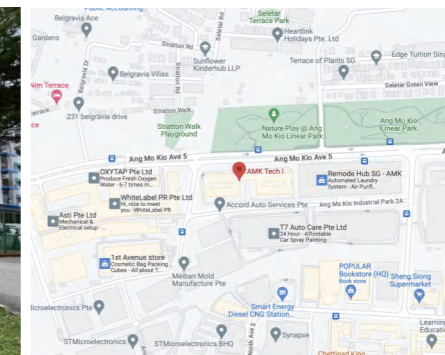
### • CHINA



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### • SINGAPORE



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To be applied for according to customer demand.