# MICROFILTER PRODUCTS GUIDE

#### For Customer Satisfaction

We provide a wide range of product portfolio to offer the best solution for each individual market needs. Under high-tech full automation and through inline inspection, stable supply with competitive cost is granted to our valued customers.

### R&D

We have over 30 R&D engineers in our lab, together with specialized engineers designated for overseas business. With over 20 years of experience in the drinking water industry, this enables us to design and develop creative products on reflection to diverse market requirements and changes.

**Quality System**Our core value for quality assurance is to deliver flawless product and to maximize customer satisfaction; proved by global certificate authorities-NSF, SII, WRAS, Watermark, and etc. Our water quality analysis lab has various professional methods and test machines to prevent the defective filtration problems. TQM system consecutively monitors defects in the line and detects the defective elements.

# **Competitive Price**

We are vertically integrated to manufacture plastic parts, components, and filtration materials in-house. And our R&D and QA perform continuous studies on cost reduction.

# **Optimized Solution**

We support our valued customers worldwide by providing promotion programs to gain our brand recognition and market share for mutual business success.

# Production capacity (annual) 20 million units equipped with large capacity to meet delivery time

required by customers worldwide.



# MICROFILTER PRODUCTS GUIDE



# Commercial

# FLUUX SYSTEM FX-Series IEN-Series VHIEN-Series Optimize The Water You Serve

Diverse options for all HORECA or OCS market.

Make your choice with Microfilter's High-Flow water solution.





# Features



#### Direct type High-Flow water purifier

### Various Configurations

- Serial, Parallel, Serial-Parallel (3stage)
- compatible with 10", 15", 17", 21" filters

#### Compatibility

- Compatible with major manufacturers' product

#### Custom filtration solution

- Filtration method/solution customizable depending on end-user's needs

### HFR-5 Pre-filtration System

- Provide clean ice, remove rust and impurities.
- Protect the main equipment, prevent clogging of the equipment pipe
- Depth filtration of melt-blown sediment system
- Minimize maintenance costs with an eco-friendly replaceable sediment system.
- 'HFR-5' product can be reused replacing only the inner sediment cartridge. 'HFR-5' reduces plastic waste by applying reusable filter housing.

# SYSTEM Specification

# System Variation















Size

Inlet/Outlet: 3/8"

Filter: 10", 15", 17", 21"

Temperature

39-100°F (4-38°C)

1 GPM ~ 6 GPM

1 GPM ~ 6 GPM (Flow rate may vary with the water quality to be applied and the System variaton stage.)

Flow rate
Working Pressure

30 ~ 100 PSI

# **NSF** Certification

# Carbon Block Filter 1stage system



System tested and certified by NSF International against NSF/ANSI Standard 42, 53 for the reduction of the Chlorine, Taste and Odor and Nominal Particulate Class 1, Turbidity and Cyst

NSF Trade Name HF-17-CS2, HF-17-PS2, HF-17-ECS2, HF-17-EPS2



System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of the Chlorine, Taste and Odor and Nominal Particulate Class 1

NSF Trade Name HF-17-CS1, HF-17-PS1, HF-17-ES1 / DH-S1



System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of the Chlorine, Taste and Odor and Nominal Particulate Class 3

NSF Trade Name HF-15-CS3, HF-15-PS3, HF-15-ECS3, HF-15-EPS3 / HF-17-CS3, HF-17-PS3, HF-17-ECS3, HF-17-EPS3

# Carbon Block Filter 2 & 3 stage system (parallel)



System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of the Chlorine, Taste and Odor and Nominal Particulate Class 1

NSF Trade Name

2stage : DH-S2, HF-17-PS1(TW), HF-17-CS1(TW) 3stage : DH-S3, HF-17-PS3, HF-17-CS3(TR)



System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of the Chlorine, Taste and Odor and Nominal Particulate Class 3

NSF Trade Name

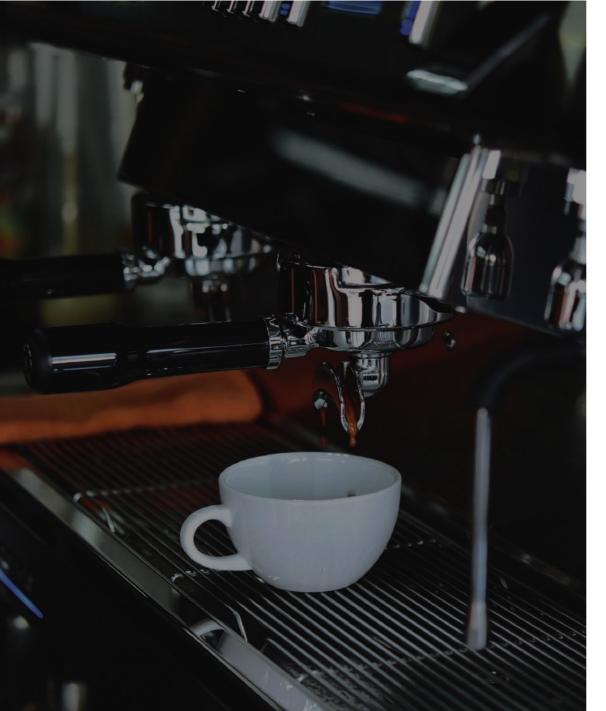
2stage: DH5-S2, HF-17-PS3(TW), HF-17-CS1(TW) 3stage: DH5-S3, HF-17-PS3, HF-17-CS3(TR)











# FILTER Specification

#### HF-C

# FLUUX High Flow Carbon Block



Filter Size	10	15	17	21	
Flow rate (GPM)	1.0	1.3 / 1.6	1.7 / 2.0	2.2 / 2.6	
Capacity (gallons)	10,000	16,800	21,000	27,000	
Micron rating (μm)	0.5 / 5				
Benefit	Common claim : Chlorine, Taste & Odor 0.5µm - Particulate Class 1, Turbidity, Cyst 5µm - Particulate Class 3				

#### HF-P

# FLUUX High Flow Scale Inhibitor



Filter Size	10	15	17	21		
Flow rate (GPM)	1.0	1.3 / 1.6	1.7 / 2.0	2.2 / 2.6		
Capacity (gallons)	10,000	16,800	21,000	27,000		
Micron rating (μm)	0.5 / 5					
Benefit	Common claim : Chlorine, Taste & Odor, Scale Inhibitor 0.5µm - Particulate Class 1, Turbidity 5µm - Particulate Class 3					

#### HF-S

#### FLUUX High Flow Sediment



Filter Size	10	15	17	21		
Flow rate (GPM)	0.9	1.6	2.0	2.6		
Capacity (gallons)	6 months					
Micron rating (μm)	Nominal 5					
Benefit		Partio	culate			

#### HFR-F

#### FLUUX HFR Replacement Cartridge Sediment System



LOOKTHIKKEPIACE	ment cartrage scannent system
Filter Size	13
Flow rate (GPM)	2.0
Capacity (gallons)	6 months
Micron rating (µm)	Nominal 5
Benefit	Particu <b>l</b> ate

# **FX-Series**

# Commercial-Grade All-In-One Filtration

A hybrid filter for specific purposes such as lead, chloramine removal and ultrafiltration, scale inhibitor options.





Hybrid cartridge suitable for tight HORECA kitchen space

: 4 step "All-In-One" [SD + CB + UF (FX basic) + Polyphosphate (option)]

Reinforced anti-microbial protection

: Inhibits any potential bacterial growth

Variety of suitable options

: Above 10"/15"/17"/21" with variety of derivatives

Longer life-span compared to current market products

: Approx. 10 % increased capacity depending on raw water quality

Eliminates ultrasmall bacteria (over 100+ E-coli)

: Efficient removal by 0.1micron UF filter (FX Basic)

Compatible filter key structure

: Compatible fitting with the most of existing head

**Chlorine Reduction Ratio** 

: Competitor (15,000 gallon) vs. 7% above (in case of 15")

Robust & Aesthetic appreciated Design

: Thicker cartridge (t: 5.6mm vs avg. 4.5mm), FDA certified materials

: "Easy-Grip" (Ø : 75mm vs avg. 78mm)

: Simple, elegant design/structure

Flow Stage

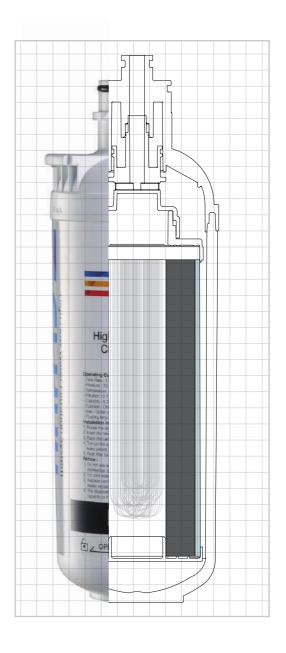
: Each step can be applied differently on demand

: Various additive available (polyphosphate, etc.)









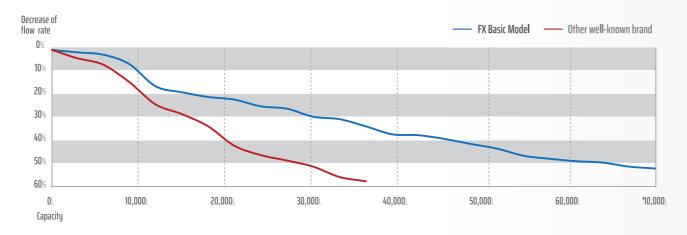


Bacteria in drinking water are one of the most harmful contaminants that one can encounter. It causes numerous infectious diseases such as dysentery, cholera, hepatitis and typhoid etc. Bacteria can be transferred to edible water in various ways such as from human and animal waste. Bacteria enter water through diverse precipitation canals such as snow melt and rainfalls. The EPA requires all public water suppliers to regularly test for coliform bacteria and deliver water that meets their standard.

Microfilter's FX-Basic filter cartridges contain Ultra-Filtration which eliminates bacteria thus providing clean edible water for end-users.

# Clogging (capacity)

- Felt type early clogging prevention performance sums to nearly twice efficient compared to sediment type
- Turbidity reduction (PT1, cyst pass) ratio: current market products (84.25%), Microfilter products (99.63%)











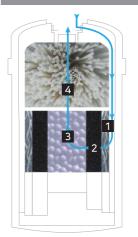
# Features & Specification

#### **Turbidity reduction**

Current market products = 84.25% **vs** FX-Basic = 99.63%

#### FX-Basic contain Ultra-Filtration

UF-membrane eliminates over 100+ bacteria and E-Coli



#### Filtration process

1 Felt

2 Carbon Block (Basic)

3 Polyphosphate (Option 15",17",21")

4 UF-Membrane

Filter Size	10	15	17	21	
Flow rate (GPM)	1.5	2.5	2.5	2.5	
Capacity (gallons)	6,300	16,000	19,000	26,000	
Micron rating (µm)	0.1				
Benefit	Chlorine, Taste & Odor, Scale Inhibitor (optional) Particulate Class1, Turbidity, Cyst				



System tested and certified by NSF International against NSF/ANSI Standard 42, 53 for reduction Claims specified on the Performance Data sheet

NSF Trade Name: FX-10 / FX-15 / FX-17 / FX-21

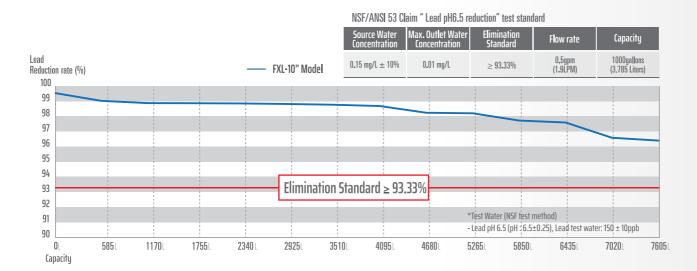
# FXL (10", 15", 17", 21") Reduction of Chlorine Taste & Odor, Cyst, Lead

Lead is a heavy metal that is a major environmental/health hazard which is rarely found in source water. Lead can enter drinking water through pipe corrosions. Exposure to lead can cause a variety of health effects, mainly for children and newborns by damaging kidneys, nervous/reproductive system. Water is the main exposure point in old buildings with lead pipes and old fixtures. In contrast to removing old pipes with costly expensive, our FXL cartridges provide efficient removal without having to go through inconvenient construction. Once dissolved, lead cannot be detected without chemical testing since they are odorless, tasteless and invisible to the eye.

With this mind, Microfilter's FXL cartridges come in handy and suitable for lead contaminated regions around the world.

# Lead Reduction (FXL-10")

- Must satisfy a 200% in capacity rate when without PID (Performance Indication Device)
- Average elimination rate of 98.3% at a capacity of 3,785L or at 200% capacity of 7,570L
- Test results indicate satisfactory condition on the elimination standard (≥93.33%)



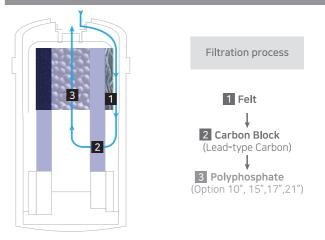






# Features & Specification

MicroFilter's Lead-type Carbon Block Average elimination rate of 98,3% at a capacity of 3,785L or at 200% capacity of 7,570L



Filter Size	10	15	17	21	
Flow rate (GPM)	0.5	0.5	0.5	0.5	
Capacity (gallons)	1,000	2,000	2,600	3,800	
Micron rating (µm)	0.5				
Benefit	Chlorine, Taste & Odor, Scale Inhibitor (optional) Particulate Class1, Turbidity, Cyst				

# FXC (10", 15", 17", 21") Reduction of Chlorine Taste & Odor, Cyst, Chloramine

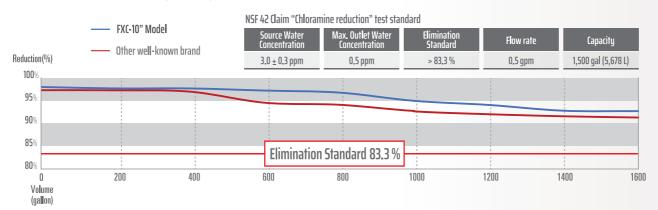
Throughout the United States, cities have used disinfectants such as chlorine and chloramines (NH<sub>2</sub>CL) for several decades. Thus, water borne illnesses like typhoid and cholera have nearly been eliminated. But, chlorine can lead to disinfection by-products (DBPs) which are very harmful to human-beings. To reduce these DBPs, water suppliers added ammonia to the chlorine which then created chloramine, an alternative disinfectant. The EPA estimates that 1 out of 5 Americans drink chloramine contaminated water. As the US EPA places stronger regulations on DBPs, more water suppliers will ultimately turn to the usage of chloramine removing filter cartridges.

Chloramine (monochloramine) in the food service industry must be aware that the use of chloramines can decrease the quality of products such as coffee, beverages, and soups. Water containing chloramine tends to have a "bitter" or "stale" taste. In addition, it damages intricate equipment applied in HORECA.

Chloramine containing tap water should not be used in hospitals or dialysis centers as contact into the blood stream can cause serious health problems. The EPA has warned that the exposure to chloramines can lead to the development of gastrointestinal and skin problems. Chloramine can also create perilous DBP (NDMA). NDMA is a compound that is identified as a probable carcinogen by the EPA. NDMA causes headaches, nausea, and vomiting.

This is where Microfilter's FXC cartridges kick in for the removal of chloramine and provide a safe drinking water environment for all purposes.

# Chloramine Elimination (FXC-10")



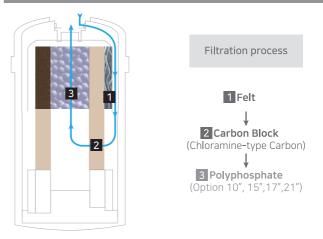






# Features & Specification

MicroFilter's Chloramine-type Carbon Block 0.07 GPM higher flow rate compared to market products



Filter Size	10	15	17	21	
Flow rate (GPM)	0.5	0.7	0.8	1.0	
Capacity (gallons)	1,500	4,000	5,800	8,000	
Micron rating (μm)	0.5				
Benefit	Chloramine, Chlorine, Taste & Odor, Scale Inhibitor (optional) Particulate Class1, Turbidity, Cyst				



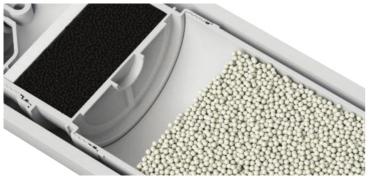
# IEN-Series

# Commercial-Grade Ion-Exchange Filtration

Protect expensive espresso machines, help yourself with low upkeep and yet provide the best coffee taste.







# Features

# Create soft water through ion-exchange resin

- Espresso machines boil water at high temperature/pressure thus generates scale. (lime scale) Through Microfilter's IEN-Series, a work of ion exchange prevents scale that
- damages equipment applied for HORECA.

### One filter for a full-duty

- Granular Activated Carbon + Ion-Exchange Resin

#### Daily perfection: 30% BY-PASS

- 70% elimination to provide the utmost water quality you deserve

Hardness elimination: 51%, avg

### Ion exchange efficiency: 77%

- Approx. 6% better hardness elimination rate, 11% better ion exchange efficiency

### Stable pH of 6.7 ~ 7.9 (market products' pH: 5.7 ~ 6.4)

Model: IEN-3000, Hardness: 180 ± 10ppm, pH: 7.5~7.9, Pressure: 4.2 kgf/cm

\*Test conducted on basis to in-house standrads

# FILTER Specification

Model	IEN 1500	IEN 3000	IEN 6000	IEN 9000	
Filter Length (inch)	13"	16"	15"	22"	
Filter Diameter (mm)	Ø 12	0mm	Ø 160mm		
Flow rate (GPM)		0.26 GPM		0.44 GPM	
Capacity (gallon)	405	794	1,586	2,377	
Life cycle (month)	6 month				
Benefit	Chlorine, Taste & Odor / Scale reduction				

# VH IEN-Series

# Variable Head System Ion Exchange Filtration

Adjustable "8 stage by-pass" VH-IEN Series provide a filter solution for coffee professionals with a system that fulfills every preference regarding hardness and concentration.







# Features

### Coffee, espresso machine → Necessary to maintain the coffee taste and quality

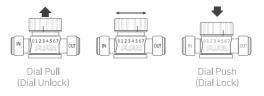
- Scale adsorption and accumulation in coffee extraction nozzles and heating tanks reduce the extraction pressure, changing the taste of coffee.

#### Groundwater use area → Need to remove the hardness

- Groundwater requires removing the temporary hardness of about 150 to 300 ppm.

  Setting 8 stage blending values of bypass adjustment according to water hardness and concentration
- \* appropriate hardness and concentration of Coffee extract  $\rightarrow$  17–85 ppm

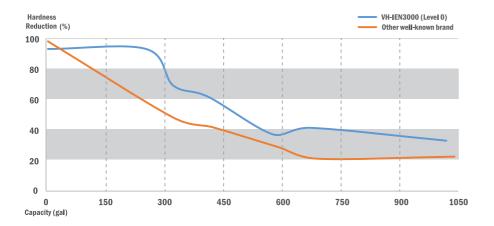
# Easy handling of the head dial

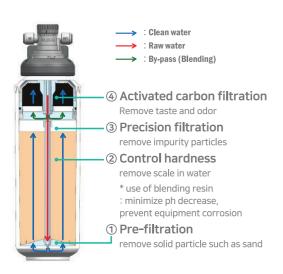


	By-pass							
Application	Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7
Coffee, espresso machine			•	•	•	•	•	•
Vending machine			•	•	•	•	•	•
Steamer, dishwasher	•	•						
Oven, Hot-water	•	•						

# \* Raw Water Conditions

рН	Tem.	TDS	Hardness - solution
7.5±0.5	20±3℃	200 to 500 mg/L	180±10 mg/L Total (Titrimetric, EDTA)











# Additional product (must be purchased separately)

1. Hardness test kit (2 tests kit)

















# FILTER Specification

Model	VH IEN 1500	VH IEN 3000	VH IEN 6000	VH IEN 9000	
Filter Length (inch)	14"	16"	16"	22"	
Filter Diameter (mm)	Ø 12	0mm	Ø 160mm		
Flow rate (GPM)	0.26 GPM			0.44 GPM	
Capacity(gal.) (By-pass Leve7)	529	529 1,207 2,608			
Life cycle (month)	6 month				
Benefit	The filter capacity may vary with the water quality to be applied and the head stage.				

# Residential





Under Sink System M9 SYSTEM / U1 SYSTEM

> In-line Filter K3 Series



M9 SYSTEM



U1 SYSTEM

# Undersink System

Great option for clutter-free kitchen



M9 Stand type 4stage(S-C-R-C) RO 50GPD

# M9 SYSTEN

# **Home Care Water Filtration System**

Whether to hang or to let stand, the M9 Undersink System provides various filter cartridge options to best suit your needs

# Features

#### Custom filtration solution

- Filtration method/solution customizable depending on end users' needs

#### Safe & Unlimited

- NSF58 / CA Certified system (M9 RO 4 stage system)
- Unlimited supply of quality drinking water

#### Easy DIY system

- No tools needed, "Pull & Turn" Quick-Change type

### Outstanding flow rate compared to current market products (20% higher)

\* Tested by in-house laboratory for performance specifications in accordance with NSF test standards



System tested and certified by NSF International against NSF/ANSI Standard 58 for the reduction of the claims specified on the Performance Data Sheet.

NSF System Trade Name

M9 4HA RO 50GPD / M9 4HA RO 75GPD / M9 4SS RO 50GPD / M9 4SS RO 75GPD

Substance	Influent Challenge Concentration	Max Allowable Concentration	Average Product Water Concentration	Average Reduction
Arsenic	0.3 mg/L ± 10%	0.01 mg/L	0.001 mg/L	99.7 %
Barium	10 mg/L ± 10%	2 mg/L	0.13 mg/L	98.7 %
Cadmium	0.03 mg/L ± 10%	0.005 mg/L	0.0001 mg/L	99.7 %
Chomium (Hexavalent)	0.3 mg/L ± 10%	0.1 mg/L	0.006 mg/L	98 %
Chomium (Trivalent)	0.3 mg/L ± 10%	0.1 mg/L	0.003 mg/L	99 %
Copper	3.0 mg/L ± 10%	1.3 mg/L	0.039 mg/L	98.7 %
Fluoride	8.0 mg/L ± 10%	1.5 mg/L	0.328 mg/L	95.9 %
Lead	0.15 mg/L ± 10%	0.01 mg/L	0.004 mg/L	97.3 %
Radium 226/228	25 pCi/L	5 pCi/L	5 pCi/L	80 %
Selenium	0.1 mg/L ± 10%	0.05 mg/L	0.001 mg/L	99 %
Turbidity	11 ± 1 NTU	0.5 NTU	0.022 NTU	99.8%

# SYSTEM Specification

#### Model



\* 4 stage stand type system can contain pressure pump



# FILTER Specification

# SD

Element Type	Sediment
Flow Rate	0.5 GPM
Life Cycle	- / 6months
Micron Rating	3 / 5 / 10 / 25 µm
Benefit	Particulate / Dirt & Sand

# MC

Element Type	Melt-blown Carbon			
Flow Rate	0.5 GPM			
Life Cycle	1,000~2,000gal / 6months			
Micron Rating	5 / 10 µm			
Benefit	Particulate / Dirt & Sand / Chlorine, Taste & Odor			

# UF (Option. Virus UF)

Element Type	Ultra filtration membrane			
Flow Rate	0.5 GPM			
Life Cycle	- / 12months (18months)			
Micron Rating	O.1 μm (O.O1 μm)			
Benefit	Particulate / Dirt & Sand / Cyst / Bacteria / E-coli / (+ virus)			

# RO

Element Type	Reverse osmosis membrane
Flow Rate	50 / 75 / 100 / 150 GPD
Life Cycle	-/24months
Micron Rating	0.0001 μm
Benefit	Turbidity / TDS / IONIC Substance Reduction / Heavy Metal Reduction (Arsenic, Barium, Cadmium, Copper, Fluoride, Lead, Radium, Selenium, etc.)

# GAC

Element Type	Granular Activated Carbon
Flow Rate	0.5 GPM
Life Cycle	1,000~2,000gal / 6months
Micron Rating	- μm
Benefit	Chlorine, Taste & Odor

### GΡ

Element Type	GAC + Polyphosphate		
Flow Rate	0.5 GPM		
Life Cycle	1,000~2,000gal / 6months		
Micron Rating	- μm		
Benefit	Chlorine, Taste & Odor / Scale inhibitor		

### Mineral

Element Type	GAC + Mineral
Flow Rate	0.5 GPM
Life Cycle	2,000 gal / 12months
Micron Rating	- μm
Benefit	Chlorine, Taste & Odor / pH booster

Filtration method/solution customizable depending on end users' needs

### СВ

Element Type	Carbon Block
Flow Rate	0.5 GPM
Life Cycle	1,500 ~ 2,500 gal / 6months
Micron Rating	1 / 5 µm
Benefit	Particulate / Chlorine, Taste & Odor

### CP

Element Type	Carbon Block + Polyphosphate
Flow Rate	0.5 GPM
Life Cycle	1,500 ~ 2,500 gal / 6months
Micron Rating	1 / 5 µm
Benefit	Particulate / Dirt & Sand / Chlorine, Taste & Odor / Scale inhibitor

# U1 SYSTEM

# **Entry Level Water Filtration System**

The U1 Undersink System comes in 8/11/13" replacement filters, making it much easier to install.

# Features

# Compact type head system

### Custom filtration solution

- Filtration method/solution customizable depending on end users' needs

### Easy DIY system

- No tools needed, "Pull & Turn" Quick-Change type

### Same purification performance as M9 SYSTEM



U1 4stage(S-C-R-GAC) RO 50GPD

# SYSTEM Specification



# FILTER Specification

Model	Element Type	Capacity / Life Cycle	Micron rating	Flow rate	Benefit
SD	Sediment	- gal / 6 months	3/5/10/25 µm	0.5 GPM	Particulate / Dirt & Sand
СВ	Carbon Block	1,500 ~ 2,500 gal / 6 months	1 / 5 µm	0.5 GPM	Particulate / Chlorine, Taste & Odor
MC	Melt-blown Carbon	1,000 ~ 2,000 gal / 6 months	5 / 10 µm	0.5 GPM	Particulate / Dirt & Sand / Chlorine, Taste & Odor
UF	Ultra Filtration membrane	- gal / 12 months	O.1 μm	0.5 GPM	Particulate / Dirt & Sand / Cyst / Bacteria / E-coli
VF	Virus Ultra Filtration membrane	- gal/18 months	0.01um	0.5 GPM	Particulate / Dirt&Sand / Cyst / Bacteria / E-coli / Virus
GAC	Granular Activated Carbon	1,000 ~ 2,000 gal / 6 months	- μm	0.5 GPM	Chlorine, Taste & Odor
GP	GAC + Polyphosphate	1,000 ~ 2,000 gal / 6 months	- μm	0.5 GPM	Chlorine, Taste & Odor / Scale inhibitor
СР	Carbon Block + Polyphosphate	1,500 ~ 2,500 gal / 6 months	1 / 5 µm	0.5 GPM	Particulate / Dirt & Sand / Chlorine, Taste & Odor / Scale inhibitor
Mineral	GAC + Mineral	2,000 gal / 6 months	- μm	0.5 GPM	Chlorine, Taste & Odor / pH booster
RO	Reverse Osmosis membrane	- gal / 24 months	0.0001 µm	50 / 75 / 100 / 150 GPD	Turbidity / TDS / IONIC Substance Reduction / Heavy Metal Reduction (Arsenic, Barium, Cadmium, Copper, Fluoride, Lead, Radium, Selenium, etc.)



# Inline Filtration Refrigerator Water Filtration

Comes in various filtration materials depending on your local water quality. The K3 serves as an inexpensive method to replace any refrigerator filter.

# K3-Series

# Features



- Non-hazardous filter cartridge (PP)
- Any internationnal certification aquirable
- Various media selection & diverse usage
- Most number of claims filtered worldwide
- In-house pressure test (4X indicated Max.pressure)
- Higher chlorine reduction performance 99.5% compare to competitor's 84.5%
- Supplier to leading home appliance companies for more than 20 years
- In-house carbon block development & production (NSF/FDA certified components)

# FILTER Specification

Media	Model	Micron rating	Capacity	Flow rate	Benefit	NSF
Granular Activated Carbon	K3-GC	- μm	1,500 gal	0.5 GPM	0.5 GPM Chlorine, Taste & Odor	
Granular Activated Carpon	K3-GP	- μm	1,500 gal	0.5 GPM	Chlorine, Taste & Odor / Scale	42
Carbon Block	K3-CB1	1 µm	1,000 gal	0.5 GPM	Particulate / Chlorine, Taste & Odor	-
	K3-CP1	1 µm	1,000 gal	0.5 GPM	Particulate / Chlorine, Taste & Odor / Scale	-
	K3-CB5	5 μm	1,000 gal	0.5 GPM	Chlorine, Taste & Odor	42



System tested and certified by NSF International against NSF/ANSI Standard 42 for the reduction of the Chlorine and Taste and Odor

NSF Trade Name K2010, K2010GP, DA2010CB













Carbon Block
Ultra Filtration
Sediment
UV-Sterilizer
PEX-Tube



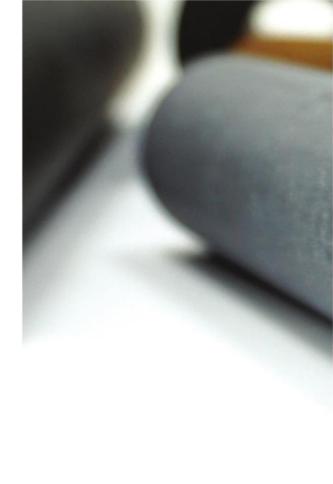
# **Fundamental Filtration**

# Personalizing your own Carbon Block was the easiest thing to do

With over 20 years of know-how

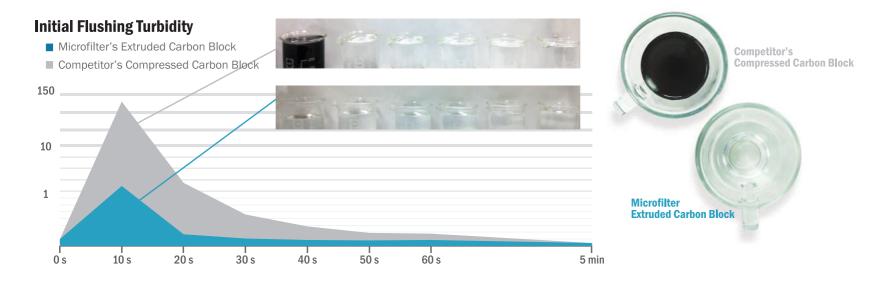
- lengths from 50-500mm
- inlet 9-50mm, outlet 30-63mm,
- pore size 0.5-10um,
- binder type,

name a specification with your needs, we just might have it.



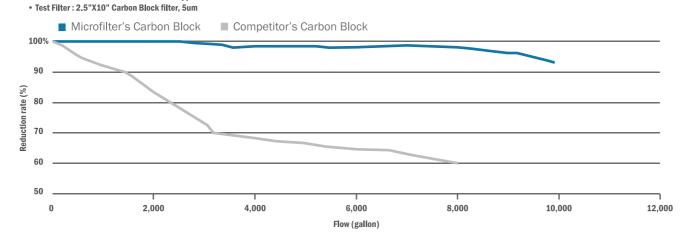


# **Performance**

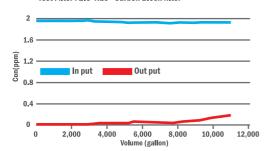


# Chlorine Removal (comparison )\_Flow rate: 1.0 GPM

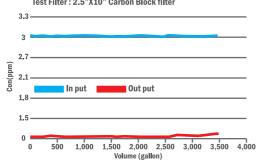




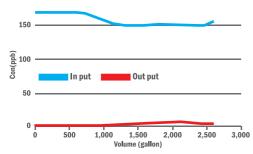
#### Chlorine Removal\_Flow rate: 1.0 GPM Test Filter: 2.5"X10" Carbon Block filter



#### Chloramine Removal\_Flow rate: 0.5 GPM Test Filter: 2.5"X10" Carbon Block filter



# pH 6.5 Lead Removal\_Flow rate: 0.75 GPM Test Filter: 2.5"X10" Carbon Block filter







# **Ultra Filtration**

# **UF Hollow Fiber Membrane**What's Pathogenic Bacteria?

Microfilter's UF Hollow Fiber Membrane comes with optional function for all water purification systems mainly filtering of Pathogenic bacteria and minute impurities.

# **Certificate**





House Controlled Services Controlled Services

TEST REPORT

Virus, Bacteria removal

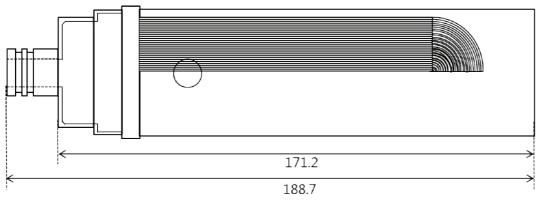
**Material** 

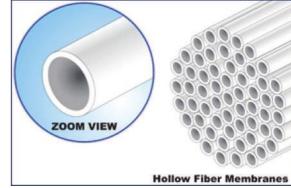
# **Functions**

# Main Function: Filtering Pathogenic Virus, bacteria and minute impurities

A range of application: Industrial water purifier and domestic water purifier Application field: Water purifier, Drinking fountain, Ionizer, Bidet, etc.

# **Specification**





	General UF	Virus UF	Natural Pressure load UF
Membrane Length (mm)	Membrane Length (mm) 115 ± 5.0		63 ± 5.0
Membrane O.D (mm)	0.57 ± 0.01	0.57 ± 0.01	0.50 ± 0.01
Number of Membrane	1700	2000	1400
Membrane surface area (㎡)	0.35 ± 0.01	0.42 ± 0.01	0.12 ± 0.01
Pore Size (µm)	0.1	<0.01	0.1





# Sediment

- Industrial Filter Cartridge offer superior contaminant holding capacity compare to conventional pleated cartridges due to their multiple layered construction.
- Thermal bonded construction ensure cartridge integrity under severe process conditions.
- All materials used in cartridges are FDA listed for food contact use.
- High efficiency / High dirt holding capacity / Low pressure drop
- Stringent quality control standards guarantee an uniform microporous membrane for effective, consistent filtration performance



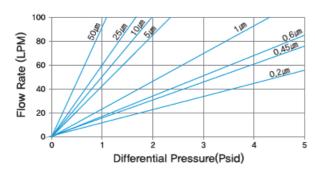
**Industrial Filtration** 

Water Simply isn't Enough to Just Drink



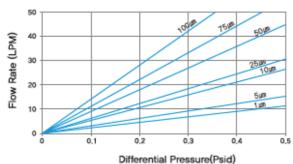
# **Application**

- Food & beverage, Cosmetice, Wine, Mineral water, Pharmaceuticals
- Organic solvents, plating solutions, Process
- Semiconductor CMP Filter
- Chemicals, Petrochemicals, Oil .etc



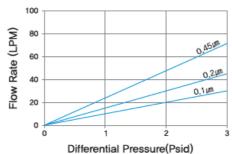
Testing standard: ASTM F 317-72, ISO 16889

# **PP Pleated Filter**



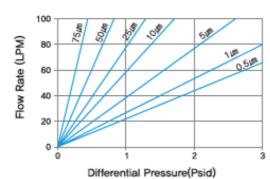
Testing standard: ASTM F 317-72, ISO 16889

**Melt-blown Depth Filter** 



Testing standard: ASTM F 317-72, ISO 16889

# **PES Membrane Pleated Filter**



Testing standard: ASTM F 317-72, ISO 16889

**Bi-Component Depth Filter** 





# **UV-Sterilizer**

# **Disinfection of Virus & Bacteria Reduction**

(CE & RoHS certified)

Effective disinfection for chlorine resistant bacteria, virus, cyst, protozoa and microorganisms by 99.9%, the lamps are easy to replace for all residential end-users.



# **Specification**

Model	•	•		
	UV-4W	UV-6W		
Size	50mm X 210mm	50mm X 280mm		
Weight	360 g	500 g		
Flow rate	0.5 GPM	1 GPM		
Pressure	20 ~ 8	30psi		
Temperature	39-100°F (4-38°C)			
Life cycle	8,000	hour		
Material	PP / SUS / SILICON			
Lamp Wattage	4 W	6 W		
Input Voltage	AC 110/220 V, 50~60 Hz			

- Water Purification from 0.5 to 6 GPM
- Effective disinfection for chlorine resistant bacteria, virus, cysts
- Reduces all bacteria, viruses, protozoa and microorganisms by 99.99%
- Potable & high purity water point of use applications
- Electronic ballast provides constant output current over the entire operating range
- Easy lamp replacement
- Available in 110V and 220V units
- CE, RoHS certified

# **PEX-Tube**



# **Cross-Linked Polyethelene Tube**

Make your own customized PEX tube design in all angles and make a more favorable cost by eliminating unnecessary fittings in your water filtration system

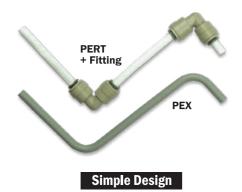


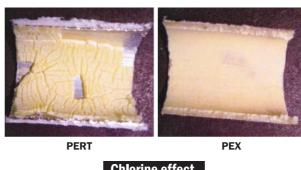
This MF PEX Frexible Pipe 460, MF PEX Flexible Pipe 650 is tested and certified by NSF International against NSF/ANSI Standard 61, 372 for materials and structyral Integrity requirements.

NSF Trade Name MF PEX Flexible Pipe460, MF PEX Flexible Pipe650

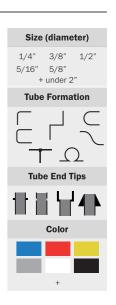
# **Functions**

• Reduce the cost of fitting • Chemical, UV resistance • No pinhole problem





Chlorine effect



# **Packing information**

# FLUUX

Model	Box	pallet	20ft	40ft
1stage head	12	1632	16320	32640
2stage head	3	240	2400	4800
3stage head	1	80	800	1600
10 inch filter	10	800	8000	16000
15 inch filter	6	480	4800	9600
17 inch filter	6	480	4800	9600
21 inch filter	9	216	2160	4320

### FX-Series

Model	Box	pallet	20ft	40ft
1stage head	12	1632	16320	32640
10 inch filter	9	486	4860	9720
15 inch filter	9	432	4320	8640
17 inch filter	9	324	3240	6480
21 inch filter	9	216	2160	4320

### **IEN-Series**

Model	Box	pallet	20ft	40ft
IEN-1500	4	320	3200	6400
IEN-3000	4	256	2560	5120
IEN-6000	4	144	1440	2880
IEN-9000	4	108	1080	2160

# М9

Вох	pallet	20ft	40ft
1	24	240	480
3	72	720	1440
1	24	240	480
3	72	720	1440
3	135	1350	2700
4	160	1600	3200
20	1260	12600	25200
25	1350	13500	27000
25	1125	11250	22500
	1 3 1 3 3 4 20 25	1 24 3 72 1 24 3 72 3 135 4 160 20 1260 25 1350	1     24     240       3     72     720       1     24     240       3     72     720       3     135     1350       4     160     1600       20     1260     12600       25     1350     13500

### U1

Model	Box	pallet	20ft	40ft
4stage RO fu <b>ll</b> set	1	24	240	480
4stage fu <b>ll</b> set	3	72	720	1440
3stage fu <b>ll</b> set	3	72	720	1440
8 inch filter	20	1260	12600	25200
11 inch filter	25	1350	13500	27000
13 inch filter	25	1125	11250	22500

# CU5

Model	Box	pallet	20ft	40ft
CU5 -RO fu <b>ll</b> set	1	18	180	360
CU5 -CR0 fullset	1	18	180	360

### Counter-top

Model	Вох	pa <b>ll</b> et	20ft	40ft
AWP	1	32	320	640
Filter	1	1350	13500	27000
RO-tank	1	100	1000	2000

# In-line filter

Model	Box	pallet	20ft	40ft
K3	25	1350	13500	27000

# UV-Sterilizer

Model	Box	pallet	20ft	40ft
UV-4W	20	1260	12600	25200
UV-6W	20	1260	12600	25200
Ba <b>ll</b> ast	20	1800	18000	36000
Replacement Lamp	42	2646	26460	52920