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Water Filtration Systems

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EN



# Catalog

## Filtration Systems





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# Filtration System





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## Welcome

### Welcome to Aquafilter Corporation

Aquafilter Inc. is a wholly foreign-owned enterprise set up as a joint owner of the operationally independent Aquafilter Germany and Aquafilter Europe.

Aquafilter Inc. was founded in 1984 and is headquartered in Hunt Valley, Maryland. With an executive team, that has over 30 years of experience in engineering, production, sales and marketing.

We are committed to manufacture and offer our consumers cost effective water filtration product.

Aquafilter is a leader in a full range of water purification products, including residential, light commercial water treatment equipment, filter housings, filter cartridges, filter elements and filter components etc.

Aquafilter develops and manufactures over 90% water treatment related products, has three manufacturing facilities, one in Germany and two in Poland. All of our finished products and components are made according to NFS, ROHS, EU, FDA and CE standards.

The company has two operating units: water treatment products and water distribution products; like pipes and fittings.

Aquafilter entered European markets more than 20 years ago and is a leading manufacturer of residential water treatment products, components and has become a well known brand in Europe and abroad.

We supply our products to more than 50 countries including: **Europe, Asia, Middle East, Africa, Central / South America and South East Asia.** Carry at the same time large inventory stock in modern high storage warehouse with over 8000 euro pallets of finished product, for quick delivery.

There has been substantial annual growth in international and domestic sales. The company has maintained its leading position thanks to introducing new innovative technology and price competitive new product with-in water purification and filtration line.

We aim to provide you with the cleanest and healthiest water filtration for your home and business by making sure the materials we use in our products are eco-friendly, while being cost effective.

Aquafilter's unique, innovate design and features make operation more reliable, and our wide selection of product line allows you to solve virtually any water contamination problems.

We will continue to provide the best quality, innovative technology and satisfied performance to customers all over the world at competitive prices.

Aquafilter will continue to carry on the core concept of providing the development of healthy drinking water for our consumers both international and at home!

### Company History

- 1984 – business established in USA
- 1986 – business established in Poland
- 1988 – company registered in Warsaw
- 2011 – relocation of production facilities from the Far East to Poland
- 2014 – production grows into Germany

### The Future

We have recently expanded our operations. Besides present production facilities, we have just start to build new additional production and assembly facility to better serve and support our customers furthering our goal to meet the needs of our customers.

### R&D

In this global environment, Aquafilter has taken the initiative to continuously improve technology through research and development. Better designs and new innovations are being developed each week to meet the evolving needs of the market.

Our effort in pioneering the new types of water filter cartridges melt-blown and extruded carbon block by use of nano- technology is evidence of this.

With the rapid growth in the water treatment and filtration sector, a new breed of product line had to be created that could withstand customers needs.

We are committed to developing superior technologies of water pollution elimination as well as water purification. We focus on bringing the most economical and environmental whole solutions to global family users and industrial customers.

Many technical innovations, progressive advancements, facilitate the efficiency and cost of water treatment products. Our mission is to combine quality, innovation, and style to make your life more comfortable and convenient!

### Our Brands



### Quality, your health and environmental care are our values !

To provide the best solutions for the customer we specialize in working with factory, personnel at all levels; from engineers to purchasing personnel; and from purchasing managers to project managers. Our goal is to help our customers build and expand their business by providing the best support possible!

In quality control we execute the strict Incoming Quality Control (IQC) Making sure our product is produced with the right materials is essential to the quality of our product, in-process Quality Control (IPQC) Our IPQC process governs the quality systems during the assembly process, to detect and handle problems that may arise as a result of assembly.

And final Outgoing Quality Assurance OQA is the last process before products ship to customers, and hence is ever important to ensure our shipment is defect-free. Numerous redundancies with IQC and IPQC are performed here to ensure the validity of previous processes.

Quality is always the first consideration of our company; this is our insistence and promise to our customers as well. Our quality control procedure starts with quality material selection, quality inspection of components, assembly quality control and finished product testing. The products are manufactured with the most advanced technology and facility to ensure maximum reliability.



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## 10 Reasons to Choose Aquafilter

- 1. HIGH QUALITY:** NSF, Certified and EU and FDA Standard Compliance, ACS Certification in Progress and WRAS Certification in Final Progress.
- 2. COMPETITIVE PRICING:** Without sacrificing quality through the use of recycled materials.
- 3. MADE IN EUROPE:** Highest quality standards, convenient location, quick reaction times, and short delivery times!
- 4. FIVE YEAR WARRANTY:** In accordance with EU standards, we offer an exceptional warranty.
- 5. 2,000,000.00 € INSURANCE POLICY:** Product liability insurance.
- 6. LOW MINIMUM ORDER QUANTITY:** Full container orders not required - our short delivery time creates a low inventory cost.
- 7. HIGH PRODUCTION CAPACITY, LARGE INVENTORY:** Quick order processing and delivery time.
- 8. STATE OF THE ART PRODUCTION EQUIPMENT:** Late model injection molding machinery & process automation.
- 9. OEM PRODUCTS AND PRIVATE LABELS WELCOME:** Customize your products to suit your needs.
- 10. TRUSTWORTHY PARTNERSHIPS:** We stay in business as long as your business makes a profit!



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# BACinix™

## General information



**Bacinix nanosilver technology protects you and your family from bacteria growth!**

**1. Enzyme disruption**

Silver ions binds with various enzymes disrupting metabolic processes.

**2. Cell membrane disruption**

Silver ions penetrate the bacterial cell wall and lysis of the cell membrane.

**3. DNA damage**

Silver ions bind to DNA. This prevents two strands from separation and thus cell replication.

**4. Ribosome denaturation**

Binding with ribosomes prevents from protein synthesis and results in degradation of the plasma membrane.



## Innovative BACinix™ Antimicrobial Nanosilver Technology

**According to the World Health Organisation (WHO) consumption of biologically contaminated water is responsible for 2,2 million diarrheal disease deaths around the world each year (some sources claim that it is approximately 3,4 millions). Most of these are children under 5 year of age.**

According to the World Health Organisation (WHO) biologically contaminated water is the main reason for death among population. Consumption of such water is responsible for 2,2 million diarrheal disease deaths around the world each year (some sources claim that it is approximately 3,4 millions). Most of these are children under 5 year of age. This problem is mostly noticed in third world countries, suffering from overpopulation.

Recent progress in science allowed the development of many substances and methods, which may help in struggle against pathogens and stop these terrifying statistics. Unfortunately we are unable to use these methods every time we want. Moreover pathogens can quickly evolve and develop resistance to these biocides. This situation lead to the development of totally new microbiologically active agent. Solution came from unexpected side – nanotechnology and its rapid development during last years.

Nanotechnology is a branch of science which deals with studying and developing various structures with nanometric sizes (hardly larger than the dimensions of a single atom or particle). These structures cannot be seen with a naked eye. They can only be seen using sophisticated microscopes. The term "nano" can be attributed to the size of these structures. Nanometer is one billion (10<sup>-9</sup>) of meter. For example the diameter of a human hair is 17-180 micrometers which equals 17000 to 180000 nanometers.

A combination of this branch of science with a knowledge about microbiologically active substances has led to the development of totally new substance – silver nanoparticles.

Antibacterial properties of silver were known in antiquity. Even the father of a modern medicine – Hippocrates, referred about its beneficial properties. Silver as a bactericidal agent was used to the middle 30's of XX century, when penicillin was discovered. For the next several decades silver as a antimicrobial agent was forgotten. The change in point of view occurred, when the newest generations of antibiotics were ineffective against pathogens.

Recently many products contains silver nanoparticles. Nanosilver has many advantages. In contrast to commonly used antibiotics, pathogens cannot develop resistance against it. It is biocompatible (well tolerated by human organism) and causes no immune response.

Nanosilver is so effective because its mechanism of action involves simultaneous attack on the pathogen in several different places:

Nanosilver is so effective because it simultaneously attacks pathogens in several routes:

1. Nanosilver attacks bacteria cell walls – they are composed of aminoacids. Silver nanoparticles change their structure (create disulfide bridges between aminoacids). It disrupts so called respiration chain. Bacteria losses its ability to gaseous exchange (breathe) which lead to its death
2. Nanosilver can penetrate cell wall leading to immediate death of bacterial cell
3. Nanosilver enters inside the bacteria and binds with its DNA. It prevents two strands from separation and thus stops DNA replication. Unfortunately the detail mechanism of this action is still not well known and requires further studies.
4. Nanosilver after passing to the inside of the cell binds with various enzymes. Disruption of metabolic processes prevents cell growth.

**AQUAFILTER BACinix™** antimicrobial technology prevents from microbiological growth of bacteria, both gram-positive (e.g. *S. aureus*) and gram-negative (e.g. *E. coli*, *Legionella*).

Bacteriostatic properties of filters and filter elements enriched with **BACinix™** nanosilver technology were confirmed during independent laboratory tests. The samples were tested against *E. coli* and *S. aureus* according to most commonly used Japanese standard:

JIS Z 2801:2000 – Antimicrobial products – Tests for antimicrobial activity and efficacy

An active agent is added during the manufacturing process, thus it is dispersed evenly throughout the entire cartridge. This in turn increases hygienic properties and can reduce odor and inhibits pathogen growth.

Utilization of nanosilver in both filters and filter housings gives you and your love ones additional protection against waterborne pathogens and the diseases they cause.

An active agent used in our products ensures low risk of bacterial resistance, no problem with migration/leaching. It is also compliant with EPA – FIFRA (USA) and the new European BPD regulations.



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**BACinix™**

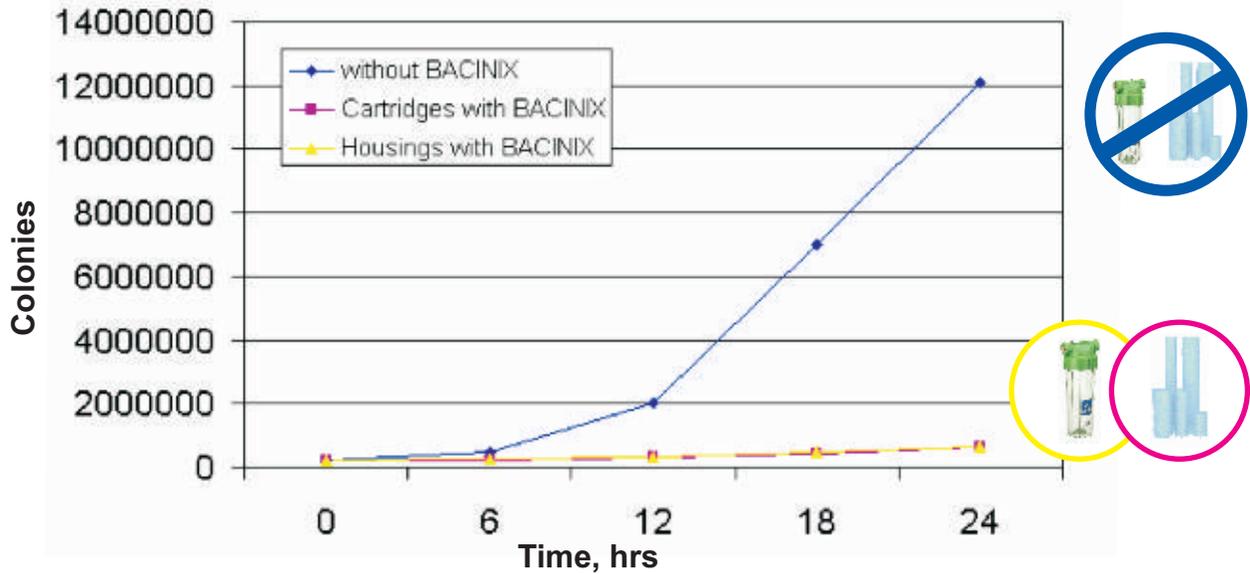
General information



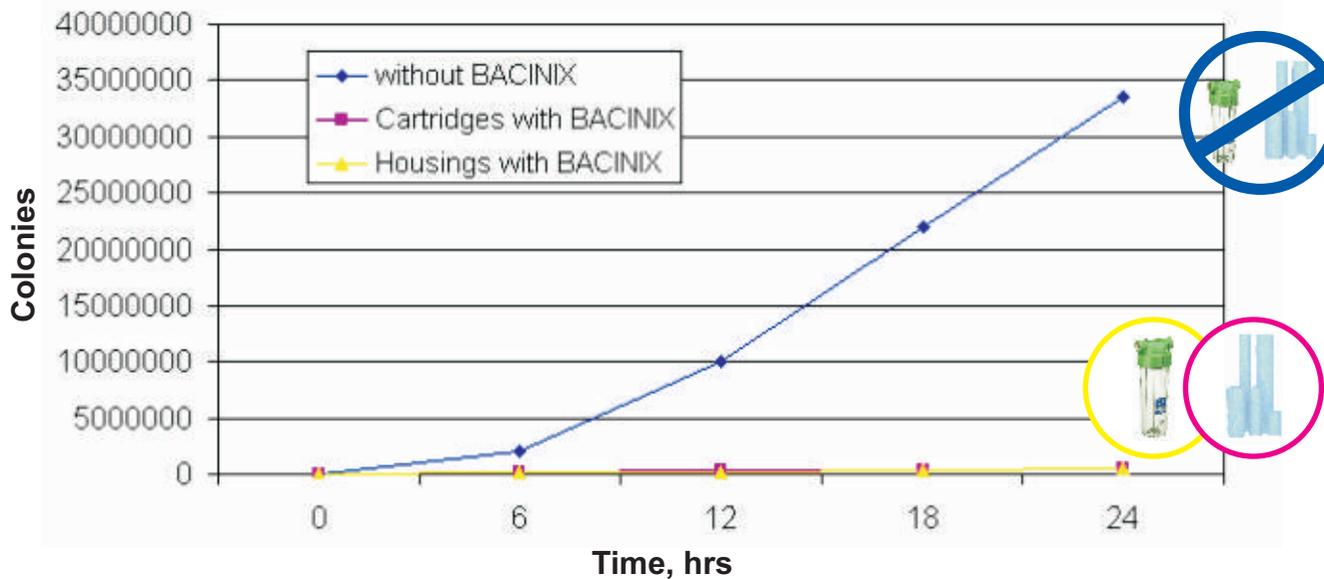
Made in EU

Antimicrobial tests were performed in the independent laboratory (University of Lodz) against E.coli and S. aureus according to JIS Z 2801:2000 - Antimicrobial products - Tests for antimicrobial activity and efficacy.

**E.Coli**



**S. Aureus**



The results clearly shows that without **BACinix™** nanosilver technology we can observe significant growth of bacterial colonies. Addition of **BACinix™** nanosilver technology inhibits pathogen growth.

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# NI-412-CENT-AB NI-212-CENT-AB

**Antibacterial and Antimicrobial  
Filter Cartridge Centralizing Ring**

## General Description:

### Antibacterial Filter Cartridge Centralizing Ring

This product centralizes the filter cartridge inside its housing, reduces the risk of damage to the cartridge and housing elements at installation, and ensures seal tightness of the housing head - all while protecting your filter from bacteria and other microorganisms, thanks to new nanosilver technology.

## Features:

- Competitive Pricing
- Improves ease of cartridge installation
- Increases ease of correct installation
- Ensures proper vertical position of cartridge within housing
- Stabilizes and centralizes cartridge for equal water distribution
- Removes risk of bacteria
- **BACINIX™** nanosilver technology, providing antibacterial and antimicrobial protection
- Centralizers inhibit harmful growth of bacteria, fungi and molds by using **nanosilver BACINIX™** technology
- Reduces risk of dislodging cartridge
- Protects cartridge from faults due to poor positioning
- Facilitates consistently correct cartridge installation
- Made in the EU with High Quality materials



**NI-412-CENT-AB**



**NI-212-CENT-AB**



Made in EU



Nanosilver is a known bacteriostatic agent. As water enters each stage of filtration, it is supplemented with traces of nanosilver equivalent to 15-20 ppb. This trace quantity of nanosilver imparts bacteriostatic agents and restricts the propagation of micro-organisms inside the filtration system, which in turn enhances shelf life and protects from future contamination.





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# NI-412-CENT-AB NI-212-CENT-AB

**Antibacterial and Antimicrobial  
Filter Cartridge Centralizing Ring**



Filter Housing without Centralizing Ring.  
Filter cartridge falls to the side,  
unsupported.



Filter Housing with Centralizing Ring.  
Filter cartridge is stabilized in the center of the  
housing.

Reduces the risk of damage to the  
cartridge and housing elements at  
installation.



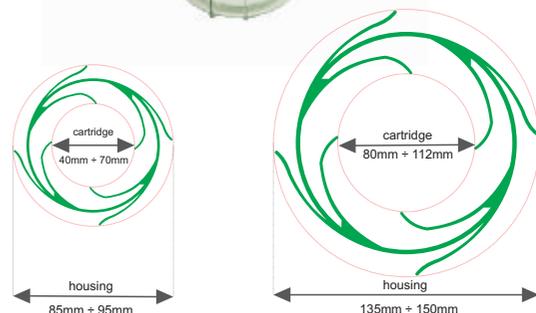
## TECHNICAL SPECIFICATIONS:

### NI-212-CENT-AB

Cartridge diameter from 40mm to 70mm (from 1,57" to 2,76")  
Internal housing diameter from 85mm to 95mm (from 3,35" to 3,74")

### NI-412-CENT-AB

Cartridge diameter from 80mm to 112mm (from 3,15" to 4,41")  
Internal housing diameter from 135mm to 150mm (from 5,3" to 5,91")



NI-212-CENT\_AB

NI-412-CENT\_AB

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# FP3-2

## 3 Stage Basic Water Filtration System



Made in EU



### General Description:

**AQUAFILTER FP3-2** - tri-stage under-counter water filtration system is made of the following filter cartridges:

**FCPS5** and **FCPS20**, which remove sediment impurities such as sand, rust, and suspensions of not less than 5  $\mu\text{m}$ , and carbon based **FCCBL** filter cartridge, which removes chlorine, some pesticides and organic substances.

The system is sold with a standard set of cartridges, connection adapters, filter faucet and housing wrench.

Depending on the quality of the water, system can be freely configured with the use of sediment, specialty and carbon filter cartridges.

### Features:

- High quality
- Competitive pricing
- Fast product delivery
- A wide range of interchangeable water filter cartridge types
- Made in EU
- Compact, undercounter, and apartment size
- Manufactured from FDA CFR-21 compliant materials
- Three Stages of Filtration
- Easy to install with System Specifications
- Systems equip with modern faucet and all installation accessories

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment
- Recommended for Families





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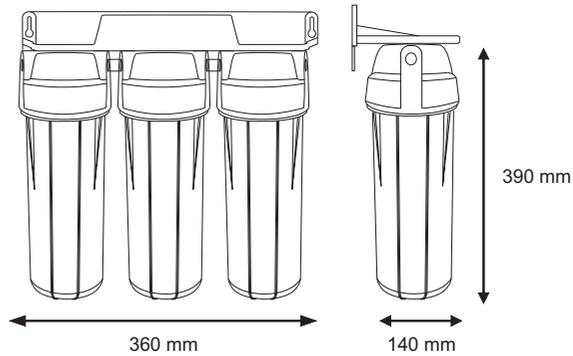
# FP3-2

## 3 Stage Basic Water Filtration System



**The package contains:**

- Melt-blown polypropylene cartridge with NSF certificate - 5 µm (FCPS5) and 20 µm (FCPS20)
- Carbon block (FCCBL)
- NSF certified, Filter Housing (double o-ring) with filter housing wrench
- Long Reach Chrome Faucet
- Feed water connector 1/2"
- Four Color Coded 1/4 inch Tubing for System Connection (FDA-approval)
- Completely Assembled, Manual instructions
- 100% Factory Tested and Sterilized Ready for Installation

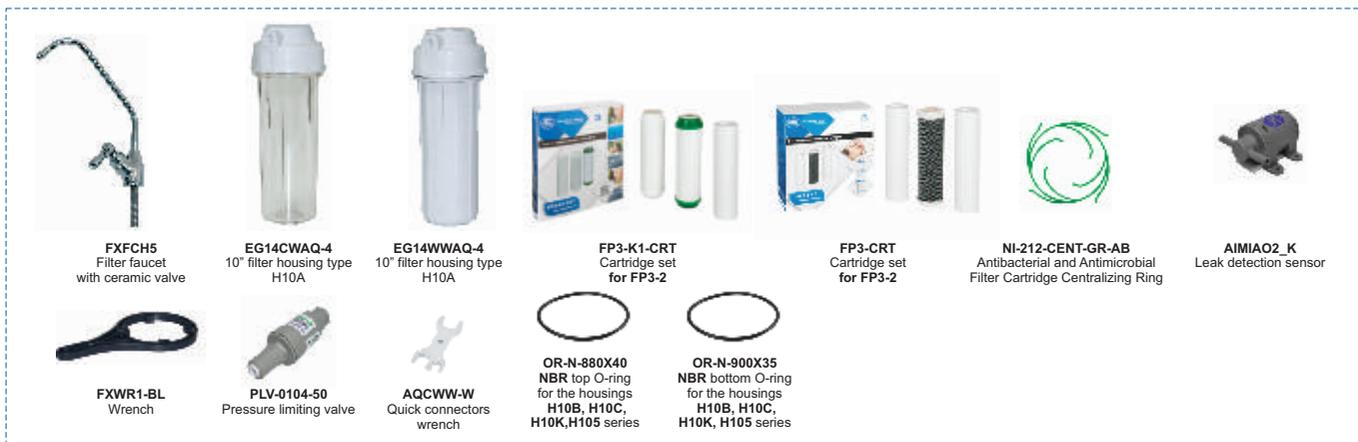


**Specifications:**

**Dimensions (H x W x L):** 390 x 140 x 360 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Working Pressure:** 6 bar (90 PSI)

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
FCPS5	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# FP3-K1

## 3 Stage Water Filtration System



Made in EU



### General Description:

**AQUAFILTER FP3-K1** is a under-counter water filtration system. It is made of the following filter cartridges:

**FCPS5** - removes mechanical sand, rust, and suspended solids - not smaller than 5 µm,

**FCCST2** - water softening and iron removing cartridge which reduces water hardness by exchanging calcium and magnesium ions magnesium ions for sodium ions, decreasing iron.

**FCCBKDF** - tri-stage filter cartridge made of coconut shell carbon, **KDF**® filtration media and polypropylene fibers (removes hydrogen sulphide, chlorine, pesticides, phenol, benzene, reduces the concentration of heavy metals: arsenic, lead, cadmium).

The system is sold with a standard set of cartridges, connection adapters, filter faucet and housing wrench.

Depending on quality of water system can be freely configured by the use of sediment, specialty and carbon based filtration cartridges.

### Features:

- High quality
- Competitive pricing
- Fast product delivery
- A wide range of interchangeable water filter cartridge types
- Made in EU
- Compact, undercounter, and apartment size
- Manufactured from FDA CFR-21 compliant materials
- Three Stages of Filtration
- Easy to install with System Specifications
- Systems equipt with modern faucet and all installation accessories

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking.
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment
- Recommended for Families





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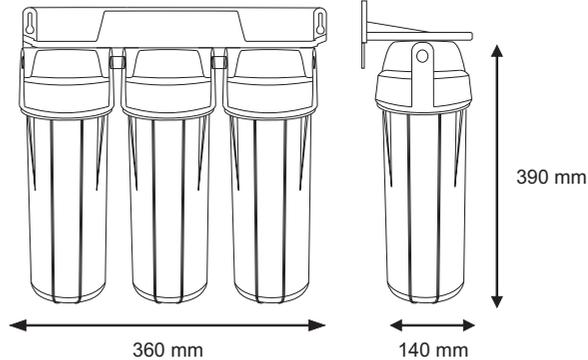
# FP3-K1

## 3 Stage Water Filtration System



**The package contains:**

- Melt-blown polypropylene cartridge with NSF certificate - 5 µm (FCPS5)
- Water softening and iron removal cartridge (FDA-approval) - FCCST2
- Filter cartridge filled with coconut shell activated carbon and KDF® media(FDA-approval) - FCCBKDF
- NSF certify filter housings (double o-rings) with filter housing wrench
- Long Reach Chrome Faucet, Feed water connector 1/2"
- Four Color Coded 1/4 inch Tubing for System Connection (FDA-approval)
- Completely Assembled, Manual instructions, Color box
- 100% Factory Tested and Sterilized Ready for Installation

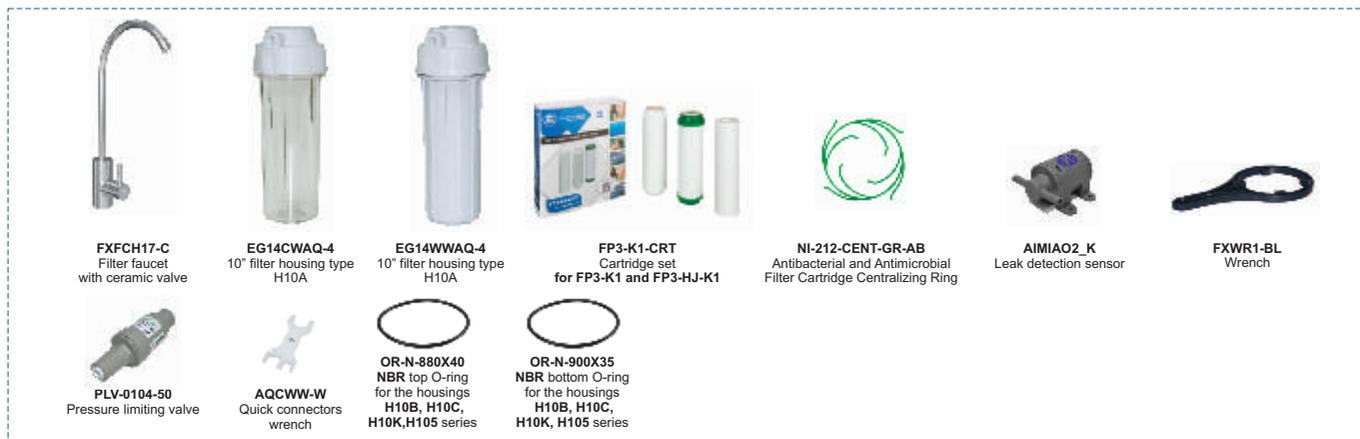


**Specifications:**

Dimensions (H x W x L): 390 x 140 x 360 (mm)  
 Connection adapter: 1/2"  
 Working Temp.: 2°C - 45°C (35°F - 113°F)  
 Working Pressure: 6 bar (90 PSI)

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS5	1	<b>Sediment Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCST2	2	<b>Ion exchange</b> High quality ion exchange resin	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
FCCBKDF	3	<b>Carbon Cartridge &amp; KDF®</b> Activated carbon coconut shell with KDF®	<b>Step 1:</b> KDF® featuring bacteriostatic capacity, protects against the development of other deposits of bacteria. Reduces the levels of iron and heavy metals. <b>Step 2:</b> Final reduction of chlorine, pesticides, organic substances and a final improved taste and odor of the water.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EXCITO-ST

## 4 Stage Basic Water Filtration System

### General Description:

**EXCITO-ST** is a modern, under-counter water filtration system .

This Aquafilter professional water filtration system is economical and easy to use.

Perfectly clean the water from various types of pollution. The filtration process is based on four in-line cartridges.

The **EXCITO-ST** removes impurities such as sand, rust, suspended particles to the size of 5 microns, chlorine, organic matter, reduces the hardness of the water and improves its taste and smell.

An advantage of the system **EXCITO-ST** is that it has a wide range of interchangeable water filter cartridges, one can freely configure the system according to your needs.

**EXCITO-ST** has been designed in such a way that it is possible to expand the filter system with a further fifth stage filtration with a wide range of 2" or 2 1/2" in-line cartridges.

It is possible to use an ultrafiltration membrane (UF) with low capacity filtration (0.02 microns), which allows for removal of mechanical impurities, and most bacteria and viruses.



Made in EU

Place for additional  
in-line cartridge



Cartridge set for EXCITO-ST

### Features:

- High quality
- Competitive pricing
- Fast product delivery
- Innovative **BACINIX™** nanosilver technology, providing antibacterial protection
- A wide range of interchangeable water filter cartridges
- Made in EU
- Compact, undercounter, and apartment size
- Ability to use ultrafiltration membrane (UF) designed to remove contaminants of size 0.02 micron
- Manufactured from FDA CFR-21 compliant materials
- Four Stages of Filtration
- Easy to install with System Specifications
- Systems equipped with modern faucet and all installation accessories

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families

EXCITO-ST-CRT



EXCITO-CRT



EXCITO-CLR-CRT



EXCITO-HF-CRT



TLCHF-FP





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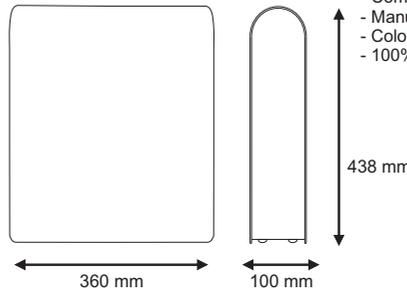
# EXCITO-ST

## 4 Stage Basic Water Filtration System



### Specifications:

**Dimensions (H x W x L):** 438 x 100 x 360 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Flow rate:** 2,9 l/m (0,76 gpm)  
**Working Pressure:** 6 bar (90 PSI)



### The package contains:

- Cartridge Type include in set EXCITO-ST: AIPRO-20MS, AISTRO-L, AICRO-L4, AIPRO-1MS
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

The main advantage of the EXCITO-ST system is a wide range of interchangeable water filter cartridges, one can freely configure the system according to required needs.

- EXCITO-ST-CRT** 4PC AIPRO-20MS, AISTRO-L, AICRO-L4, AIPRO-1MS
- EXCITO-CLR-CRT** 4PC AIPRO-20MS, AIPRO-3-L, AICRO-L3, AICRO-L4
- EXCITO-CRT** 4PC AIPRO-20MS, AIPRO-1-MS, AICRO-L3, AICRO-L4
- EXCITO-HF-CRT** 3PC AIPRO-20MS, AIPRO-3-L, AICRO-L4
- TLCHF-FP** 1PC TLCHF-FP



In each filter cartridge, Aquafilter uses innovative **BACINIX™** nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
AIPRO-20MS	1	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 20 microns.
AISTRO-L	2	<b>Ion exchange</b> High quality ion exchange resin	Water hardness reduction.
AICRO-L4	3	<b>Carbon Cartridge &amp; KDF®</b> Activated carbon coconut shell with KDF®	<b>Step 1:</b> KDF® showing bacteriostatic capacity, protects against the development of other deposits of bacteria. Reduces the levels of iron and heavy metals. <b>Step 2:</b> Final reduction of chlorine, pesticides, organic substances and a final improved taste and odor of the water.
AIPRO-1MS	4	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 5 microns.
TLCHF-FP	NOT IN SYSTEM	<b>Ultrafiltration membrane (UF)</b> Ultrafiltration separation mechanism is commonly attributed to the pore size of the membrane as low as 0,02 micron	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules, bacteria and same viruses.
AICRO-L3	NOT IN SYSTEM	<b>Carbon Cartridge</b> Activated carbon coconut shell	The initial reduction of chlorine, pesticides, organic matter and improve the taste and odor of the water.
AIPRO-3-L	NOT IN SYSTEM	<b>Ion exchange &amp; BIRM</b> High quality media	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- UF membrane recommended to change every 12 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EXCITO-CL

**5 stage "See True" alkaline water filtration system, with nanosilver technology in transparent filtration cartridges**

**Alkaline water filtration system**



## General Description:

Professional undercounter system, producing alkaline water. This filter's design was formulated in consideration of those who seek a healthier lifestyle.

Crystal clear, alkaline and ionized water is a perfect antioxidant, which helps to scavenge free radicals, responsible for faster aging and have a great influence on tumor/cancer development.

Alkalized and ionized water has a beneficial influence on pH of body fluids, creating alkaline environment, which in turns reduces the number of such cases as atherosclerosis.

Alkalized and ionized water adds various minerals to ones organism, such as calcium, magnesium, iron, manganese and lithium, beneficial to human health.

Apart from alkalization and ionization **EXCITO-CL** system removes various contaminants from water such as: sediments (sand, silt, rust), chlorine, organic substances, reduces water hardness and heavy metals concentration. It also improves taste and smell of water.

**EXCITO-CL** system utilizes **BACinix™** nanosilver technology, creates resistance to bacteria growth in cartridges.

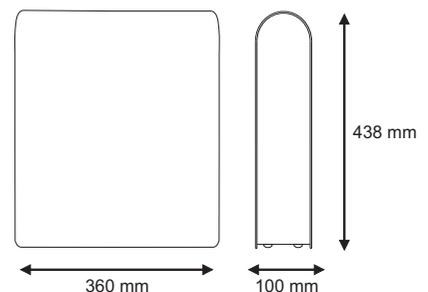
System is sold in an aesthetic case. A set of connectors allowing proper installation and a separate faucet.

## Features:

- High quality
- Competitive pricing
- Made in EU
- Fast product delivery
- Reduces ORP, increasing pH
- Effective free-radical scavenger
- Increases longevity of the cartridge, preventing from microbiological growth
- Innovative **BACINIX™** nanosilver technology
- Compact, undercounter, compartmentalized size convenient for all installations
- Manufactured with FDA CFR-21 compliant materials
- "See True" transparent five stage filtration system
- Innovative nanosilver technology
- Can be used as a peracidity remedy
- Improves taste of water
- Systems equipped with modern faucet and all installation accessories
- 100% Factory Pressure Tested and Sterilized, Ready for Installation

## Specifications:

**Dimensions (H x W x L):** 438 mm x 100 mm x 360 mm  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (36°F - 113°F)  
**Flow rate:** 2,8 l/min. (0.74 gpm)  
**Max. Working Pressure:** 6 bar (90 PSI)



## Recommendations for Use:

Drinking up to 2 liters of alkalized and ionized water daily improves concentration. Alkaline water is absorbed faster and intensifies metabolic processes and speeds up toxin removal.

Immersion of meat or fish in alkaline water for 30 minutes helps to eliminate the traces of blood and removes unpleasant fishy odor.

Immersion of fruits and vegetables in alkaline water for 30 minutes removes the pesticides without the loss of precious minerals.

## The package contains:

- Cartridge Type include in set EXCITO-CL: AIPRO-1M-CL, AISTRO-L-CL, FCCBL-S-CL, AIFIR-100, AICRO-AB
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box

**BACINIX** antibacterial  
Nanosilver is a known bacteriostatic agent. As water enters each stage of filtration, it is supplemented with traces of nanosilver equivalent to 15-20 ppb. This trace quantity of nanosilver imparts bacteriostatic agents and restricts the propagation of micro-organisms inside the filtration system, which in turn enhances shelf life and protects from future contamination.



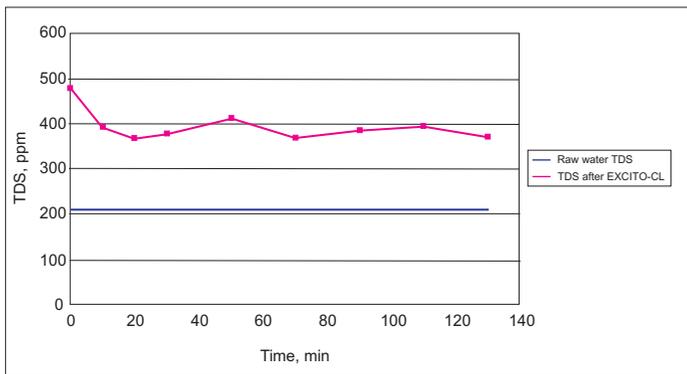
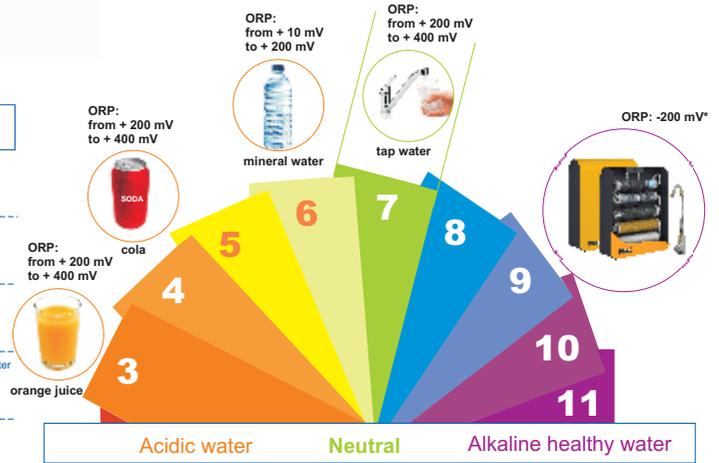


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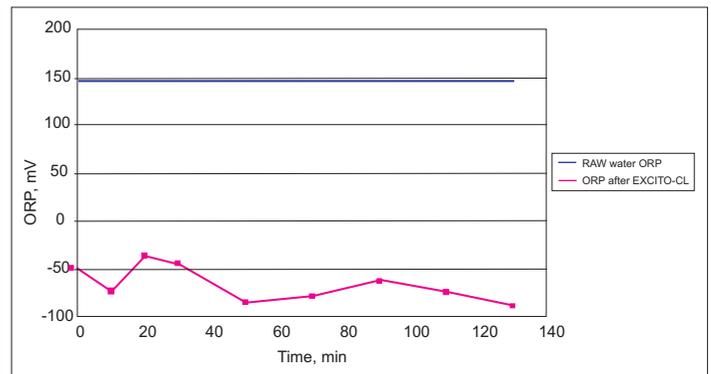
# EXCITO-CL

5 stage "See True" alkaline water filtration system, with nanosilver technology in transparent filtration cartridges

CAT#	STAGE	COMPONENT	FUNCTION
AIPRO-1M-CL	1	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 5 micron.
AISTRO-L-CL	2	<b>Ion exchange</b> High quality ion exchange resin	Water hardness reduction.
FCCBL-S-CL	3	<b>Carbon Block Cartridge 2 in one</b> Extruded activated carbon with other treatment filtration media	<b>Step 1:</b> Removes chlorine, color, and other organic impurities. <b>Step 2:</b> Reduces the level of iron, heavy metals, pesticides, organic substances, improved taste and odor.
AIFIR-100	4	<b>Alkaline &amp; ORP Cartridge 3 in one</b> Adjusts increase pH/Reduces ORP down to -200 mV effective free-radical scavenger	<b>Step 1:</b> Effective free-radical scavenger. Improves taste of water. <b>Step 2:</b> Reduces ORP down to -200 mV <b>Step 3:</b> Adjusts pH of the body fluids and by increasing of the pH of water may remedy peracidity.
AICRO-AB	5	<b>Coconut Shell Carbon Cartridge &amp; Antibacterial/Antimicrobial 2 in one</b> Coconut shell activated carbon Antibacterial/Antimicrobial protection	<b>Step 1:</b> Final improved taste and odor of the water. <b>Step 2:</b> Antibacterial/Antimicrobial properties, increases longevity of the cartridge preventing from microbiological growth.

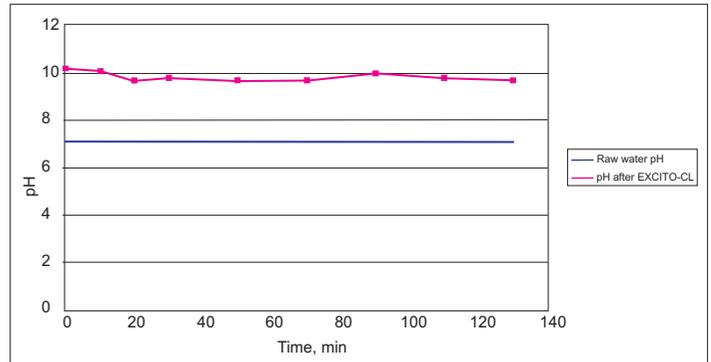


Higher TDS value after EXCITO-CL system is caused by water mineral enrichment.



1000 ml samples were collected in a specified periods of time. Flow rate was set to 1,7 lpm. The results are summarized above.

### Additional accessories



1000 ml samples were collected in a specified periods of time. Flow rate was set to 1,7 lpm. The results are summarized above.

### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- Replace the filter cartridge (AICRO-AB, AIFIR-100) at least every 6 or 12 months (depending on water quality).
- LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.
- This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.
- We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# FP3-HJ-K1

## 4 Stage Water Filtration System with UF Membrane



Made in EU



### General Description:

**AQUAFILTER FP3-HJ-K1** - multi-stage water filtration system with hollow fiber membrane. Provides a comprehensive solution to contaminated water in homes and offices. System is made of the following filter cartridges:

**FCPS5** - removes mechanical sand, rust, and suspended solids - not smaller than 5 µm,

**FCCST2** - water softening and iron removing cartridge which reduces water hardness by exchanging calcium and magnesium ions for sodium ions, decreasing iron.

**FCCBKDF** - tri-stage filter cartridge made of coconut shell carbon, KDF® filtration media and polypropylene fibers (removes hydrogen sulphide, chlorine, pesticides, phenol, benzene, reduces the concentration of heavy metals: arsenic, lead, cadmium).

In addition, the system is equipped with new generation hollow fiber membrane **TLCHF-2T**, which removes various types of mechanical impurities and certain bacteria and viruses.

The system is sold with a standard set of cartridges, connection adapters, filter faucet and housing wrench.

Depending on quality of water system can be freely configured by the use of sediment, specialty and carbon based filtration cartridges.

### Features:

- High quality
- Competitive pricing
- Fast product delivery
- A wide range of interchangeable water filter cartridge types
- Made in EU
- Compact, undercounter, and apartment size
- Manufactured from FDA CFR-21 compliant materials
- Designed to remove contaminants of size 0.02 micron pore (capillary technology - ultra-filtration)
- Four Stages of Filtration
- Easy to install with System Specifications
- Systems equip with modern faucet and all installation accessories

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment
- Recommended for Families





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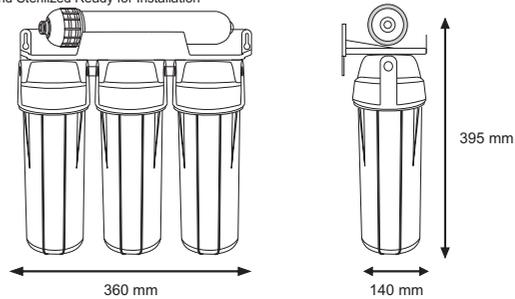
# FP3-HJ-K1

## 4 Stage Water Filtration System with UF Membrane



**The package contains:**

- Melt-blown polypropylene cartridge with NSF certificate - 5 µm (FCPS5)
- Water softening and iron removal cartridge (FDA-approval) - FCCST2
- Filter cartridge filled with coconut shell activated carbon and KDF® media (FDA-approval) - FCCBKDF
- UF membrane element type: TLCHF-2T
- NSF certify filter housings (with double o-rings), filter housing wrench
- Long Reach Chrome Faucet, Feed water connector 1/2"
- Four Color Coded 1/4 inch Tubing for System Connection (FDA-approval)
- Completely Assembled, Manual instructions, Color box
- 100% Factory Tested and Sterilized Ready for Installation

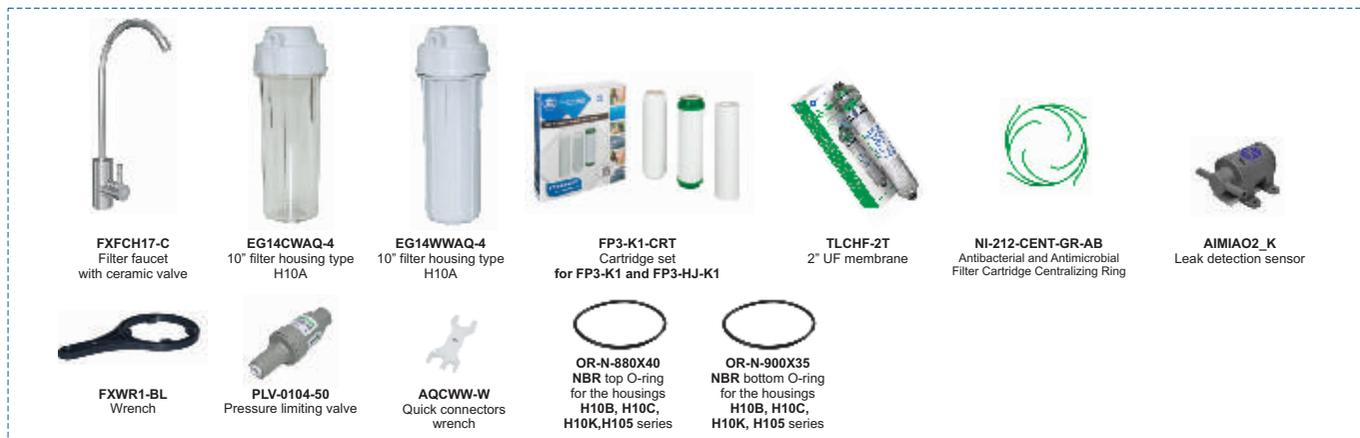


**Specifications:**

**Dimensions (H x W x L):** 395 x 140 x 360 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Working Pressure:** 3.5 bar (52.5 PSI)

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS5	1	<b>Sediment Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCST2	2	<b>Ion exchange</b> High quality ion exchange resin	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.
FCCBKDF	3	<b>Carbon Cartridge &amp; KDF®</b> Activated carbon coconut shell with KDF®	<b>Step 1:</b> KDF® features bacteriostatic capacity, protects against the development of other deposits of bacteria. Reduces the levels of iron and heavy metals. <b>Step 2:</b> Final reduction of chlorine, pesticides, organic substances and a final improved taste and odor of the water.
<b>Ultrafiltration (UF) membrane</b>			
TLCHF-2T	4	Ultrafiltration separation mechanism is commonly attributed to the pore size of the membrane as low as 0,02 micron	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules, bacteria and some viruses.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- UF membrane recommended to change every 12 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EKOF4-SLIM-UF

**4 Stage Ultrafiltration System  
based on UDF-SLIM Cartridge Type**

## General Description:

**EKOF4-SLIM-UF** The Push-In four stage undersink water filtration system with ultrafiltration membrane (UF) is ideal for kitchens with limited under sink space.

It features a Push-In Economical type cartridge system, ensuring quick, easy removal and installation.

The Aquafilter Four Stage Under Sink System has set the economical cartridge standard for water filters.

Apart from food, people today depend on water for healthy living. When water becomes contaminated, individuals may be exposed to life-threatening illnesses.

Setting up a **EKOF4-SLIM-UF** water filter for your house makes a superb economical start.

## Features:

- High quality
- Competitive Pricing
- Four Stages of Filtration
- Push-In type cartridge replacement
- Easy Economical Cartridge Maintenance
- Easy to install
- Systems equipped with modern faucet and all installation accessories
- The **EKOF4-SLIM-UF** with Push in type cartridges undersink DIY package comes complete and ready to install
- Hand Built & Factory Tested
- Hygienic Push-In Cartridges
- Fast product delivery
- Innovative **BACINIX** nanosilver technology, providing antibacterial protection
- Made in EU
- Compact size for undercounter and apartment
- Designed to remove contaminants of small pore size (0.02 micron) - capillary technology - ultrafiltration UF
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families



Made in EU



Cartridge set for  
**EKOF4-SLIM-UF**  
**EKOF4-SLIM-UF-CRT**

UF membrane  
**EKOF4-SLIM-UF**





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# EKOF4-SLIM-UF

**4 Stage Ultrafiltration System  
based on UDF-SLIM Cartridge Type**

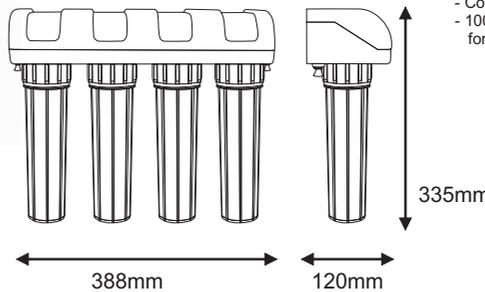


**Specifications:**

**Dimensions (H x W x L):** 335 x 120 x 388 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Working Pressure:** 3,5 bar (53 PSI)  
**Flow Rate:** 2.0 l/m (0.6 gpm)  
**Filter Housing (Sump) - Material:** Poly (ethylene terephthalate)  
**Filter Housing Cap - Material:** Polypropylene

**The package contains:**

- Cartridge Type include in set EKOF4-SLIM-UF: FCPS20-SL, FCCST2-SL, FCCBL-S-SL,
- UF membrane element type: TLCHF-SL
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation



**Important Notice:**

Avoid cheap Water Filtration Systems and Cartridges which have no testing credentials or certifications, and often leach harmful chemicals into the water which are linked to cancer, birth defects and infertility.

In additional, cheap components may also lead to membrane fouling, leaks and general poor performance and product longevity.

Instead, choose Aquafilter tested and certified water filtration systems and cartridges.



In each filter cartridge, Aquafilter uses innovative BACINIX™ nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS5-SL	1	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 5 microns.
FCCST2-SL	2	<b>Ion exchange 2 in one</b> High quality ion exchange resin	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.
FCCBL-S-SL	3	<b>Carbon Block Cartridge</b> Extruded activated carbon with other treatment filtration media	<b>Step 1:</b> Removes chlorine, color, odor and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances, improved taste and odor.
TLCHF-SL	4	<b>Ultrafiltration membrane (UF)</b> Ultrafiltration separation mechanism is commonly attributed to the pore size of the membrane as low as 0,02 micron .	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules, bacteria and some viruses.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 2 or 4 months (depending on water quality).
- Replace UF membrane at least every 6 or 12 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EXCITO-B

**5 Stage Ultrafiltration System  
based on "QM" Cartridge Type**



## General Description:

**EXCITO-B** is a economical five stage, ultra-filtration water system, using a modern line of "QM - QUICK CONNECTOR MALE" water filter cartridges.

This Aquafilter professional water filtration system is economical and easy to use. Perfectly cleans the water from many types of water pollution, bacteria and some viruses. Innovative Aquafilter water filter cartridges "QM QUICK CONNECTOR MALE", based on "PUSH IN - PUSH OUT" for quick replacement, requiring no special tools or the use of additional sealants such as Teflon tape .

This ultra-filtration technology system removes contaminants from water of 0.02 microns including most bacteria and some viruses.

In each filter cartridge, Aquafilter uses innovative **BACINIX™** nanosilver technology, providing anti-bacterial protection.

## Features:

- High quality
- Competitive pricing
- Fast product delivery
- Innovative **BACINIX™** nanosilver technology, providing antibacterial protection
- Made in EU
- Compact, undercounter, and apartment size
- Designed to remove contaminants of size 0.02 micron (capillary technology - ultra-filtration)
- Innovative inserts: a "QM" does not require the use of additional sealants
- Manufactured from FDA CFR-21 compliant materials
- Five Stages of Filtration
- Easy to install with System Specifications
- Systems equipped with modern faucet and all installation accessories

## Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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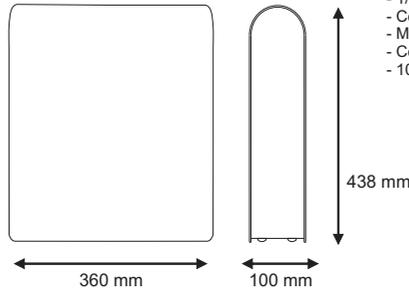
# EXCITO-B

## 5 Stage Ultrafiltration System based on "QM" Cartridge Type



**Specifications:**

**Dimensions (H x W x L):** 438 x 100 x 360 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (36°F - 113°F)  
**Flow rate:** 1,9 l/m (0.6 gpm)  
**Working Pressure:** 3.5 bar (52.5 PSI)



**The package contains:**

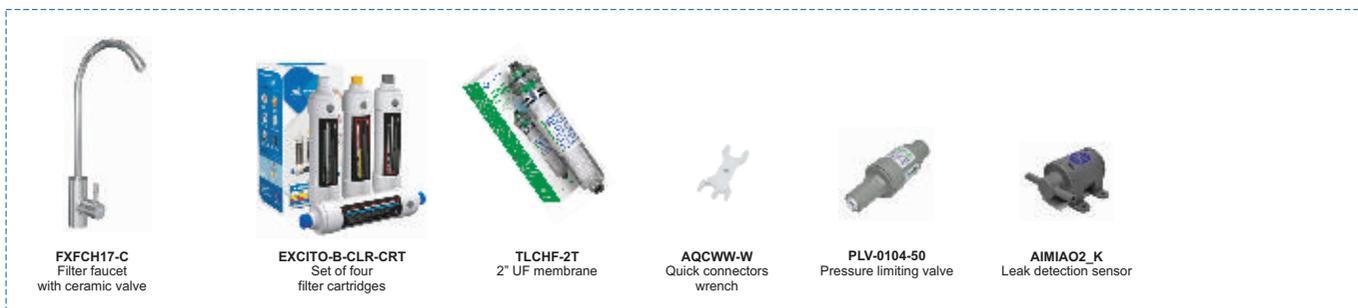
- Cartridge Type include in set EXCITO-B: AIPRO-20M-QM, AISTRO-2-QM, AICRO-3-QM, AICRO-4-QM
- UF membrane element type: TLCHF-2T
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation



In each filter cartridge, Aquafilter uses innovative **BACINIX™** nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
AIPRO-20M-QM	1	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 20 microns.
AISTRO-2-QM	2	<b>Ion exchange</b> High quality ion exchange resin	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.
AICRO-3-QM	3	<b>Carbon Cartridge</b> Activated carbon coconut shell	
AICRO-4-QM	4	<b>Carbon Cartridge &amp; KDF®</b> Activated carbon coconut shell with KDF®	<b>Step 1:</b> KDF® showing bacteriostatic capacity, protects against the development of other deposits of bacteria. Reduces the levels of iron and heavy metals. <b>Step 2:</b> Final reduction of chlorine, pesticides, organic substances and a final improved taste and odor of the water.
TLCHF-2T	5	<b>Ultrafiltration (UF) membrane</b> Ultrafiltration separation mechanism is commonly attributed to the pore size of the membrane as low as 0,02 micron	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules, bacteria and some viruses.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.  
 - Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.  
 - We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.  
 - Replace the filter cartridge at least every 3 or 6 months (depending on water quality).  
 - UF membrane recommended to change every 12 months (depending on water quality).  
**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.  
 This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.  
 We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur

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# EXCITO-4

**4 Stage Ultrafiltration System  
based on "TWIST" Cartridge Type**

## General Description:

EXCITO-4 This Quick Twist four stage undersink water filtration system with ultrafiltration membrane (UF) is ideal for kitchens with limited under sink space. It features a State-of-the-Art "Twist-On-Off" cartridge system, ensuring quick, easy removal and replacement of the cartridges.

The Aquafilter Four Stage Under Sink System has set the standard for water filters.

Unlike conventional units, filter housings are not required when using Quick-Twist cartridges.

Apart from food, people today depend on water for a healthy life. When water becomes contaminated, individuals may be exposed to life-threatening illnesses.

Setting up the EXCITO-4 filter for your house makes a superb start.

## Features:

- High quality
- Competitive Pricing
- Hand Built & Factory Tested
- Hygienic Twist-off Cartridges
- Fast product delivery
- Innovative **BACINIX™** nanosilver technology, providing antibacterial protection
- Made in EU
- Compact, undercounter, and apartment size
- Designed to remove contaminants of small pore size (0.02 micron) - capillary technology - ultrafiltration UF
- Innovative TWIST type quick change water filter cartridges
- Manufactured from FDA CFR-21 compliant materials
- Four Stages of Filtration
- Quick Cartridge replacement
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet and all installation accessories
- The Excito-4 Quick Twist type Under Sink DIY package comes complete and ready to install

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families



Made in EU



## Cartridge exchange is quick and easy.





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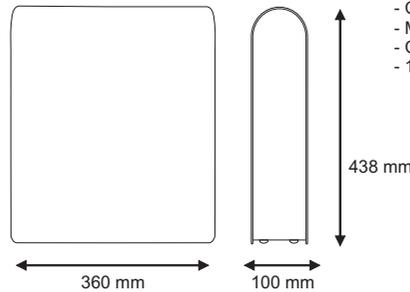
# EXCITO-4

**4 Stage Ultrafiltration System  
based on "TWIST" Cartridge Type**



**Specifications:**

**Dimensions (H x W x L):** 438 x 100 x 360 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113°F)  
**Working Pressure:** 4 bar (60 PSI)  
**Flow Rate:** 2.0 l/m (0.6 gpm)



**The package contains:**

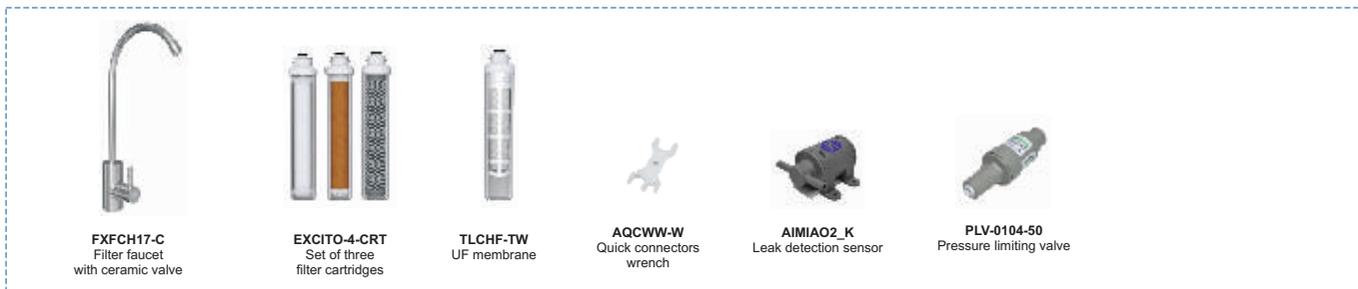
- Cartridge Type include in set EXCITO-4: AIPRO-1M-TW, AISTRO-L-TW, FCCBL-S-TW, TLCHF-TW
- UF membrane element type: TLCHF-TW
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation



In each filter cartridge, Aquafilter uses innovative **BACINIX™** nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
AIPRO-1M-TW	1	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 5 microns.
AISTRO-L-TW	2	<b>Ion exchange</b> High quality ion exchange resin	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.
FCCBL-S-TW	3	<b>Carbon Block Cartridge</b> Extruded activated carbon with other treatment filtration media	<b>Step 1:</b> Removes chlorine, color, odor and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances, improves taste and odor.
TLCHF-TW	4	<b>Ultrafiltration membrane (UF)</b> Ultrafiltration separation mechanism is commonly attributed to the pore size of the membrane as low as 0.02 micron.	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules, bacteria and some viruses.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- UF membrane recommended to change every 12 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EXCITO-WAVE

**4 Stage Ultrafiltration System  
based on "TWIST" Cartridge Type**

## General Description:

**EXCITO-WAVE** The Quick Twist four stage undersink water filtration system with ultrafiltration membrane (UF) is ideal for kitchens with limited under sink space.

It features a State-of-the-Art 'Twist-On-Off' cartridge system, ensuring quick, easy removal and replacement of the cartridges.

The Aquafilter Four Stage Under Sink System has set the standard for water filters.

Unlike conventional units, filter housings are not required when using Quick-Twist cartridges.

Apart from food, people today depend on water for healthy life. When water becomes contaminated, individuals may be exposed life-threatening illnesses.

Setting up the **EXCITO-WAVE** filter for your house makes a superb start.

## Features:

- High quality
- Competitive Pricing
- Hand Built & Factory Tested
- Hygienic Twist-off Cartridges
- Fast product delivery
- Innovative **BACINIX** nanosilver technology, providing antibacterial protection
- Made in EU
- Compact, undercounter, and apartment size
- Designed to remove contaminants of small pore size (0.02 micron) - capillary technology - ultrafiltration UF
- Innovative TWIST type quick change water filter cartridges
- Manufactured from FDA CFR-21 compliant materials
- Four Stages of Filtration
- Quick Cartridge replacement
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet and all installation accessories
- The EXCITO-WAVE QuickTwist type Under Sink DIY package comes complete and ready to install

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment
- Recommended for Families



Made in EU



## Cartridge exchange is quick and easy





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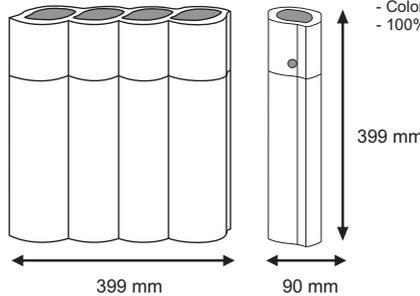
# EXCITO-WAVE

**4 Stage Ultrafiltration System  
based on "TWIST" Cartridge Type**



**Specifications:**

**Dimensions (H x W x L):** 399 x 90 x 345 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Working Pressure:** 4 bar (60 PSI)  
**Flow Rate:** 2.0 /min (0.6 gpm)



**The package contains:**

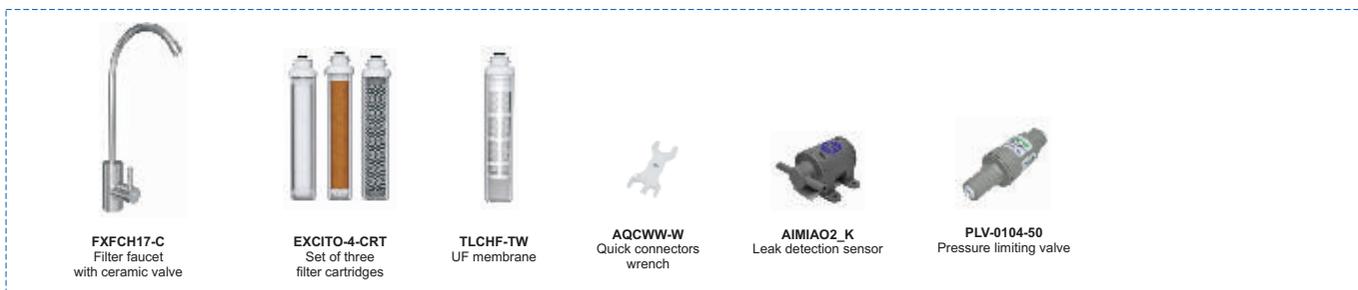
- Cartridge Type include in set EXCITO-4: AIPRO-1M-TW, AISTRO-L-TW, FCCBL-S-TW, TLCHF-TW
- UF membrane element type: TLCHF-TW
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation



In each filter cartridge, Aquafilter uses innovative **BACINIX™** nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
AIPRO-1M-TW	1	<b>Sediment</b> Spun-bounded polypropylene	Removes suspended impurities like particles, rust and sediment not less than 5 microns.
AISTRO-L-TW	2	<b>Ion exchange</b> High quality ion exchange resin	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.
FCCBL-S-TW	3	<b>Carbon Block Cartridge</b> Extruded activated carbon with other treatment filtration media	<b>Step 1:</b> Removes chlorine, color, odor and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances, improves taste and odor.
TLCHF-TW	4	<b>Ultrafiltration membrane (UF)</b> Ultrafiltration separation mechanism is commonly attributed to the pore size of the membrane as low as 0,02 micron.	Rejects or separates high molecular weight solutes as well as suspended solids, colloids, and macromolecules, bacteria and some viruses.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- UF membrane recommended to change every 12 months (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EKOF4-SLIM-UV

**5 Stage UV System  
based on UV Final Stage**

## General Description:

**EKOF4-SLIM-UV** The Aquafilter Pure Water Pack combines four stage filtration with add on ultraviolet water purification unit for great tasting drinking water (shown on right).

Healthier and Great Tasting Water, Economical and Safe System.

This Five stage under-sink filtration system combines high quality prefiltration with our ultraviolet purification technology which produce a complete water quality system for residential applications.

The filter system removes sediment, rust, dirt, taste, odors and many other water contaminants that may be present in the water.

The last stage water is purified in the UV chamber, producing drinking water that is crystal clear and free from disease-causing pathogens including bacterial, viral or cystic contamination.

Economical and safe, the Aquafilter Ultraviolet Purifier offers rapid water treatment without the use of heat or dangerous chemicals.

The Aquafilter Ultraviolet Water Purifier utilizes a germicidal ultraviolet lamp that produces short wave radiation lethal to bacteria, viruses and other microorganisms present in water.



Made in EU



## Features:

- High quality
- Competitive Pricing
- Five Stages of Filtration
- UV light included in system
- Hand Built & Factory Tested
- Push-In cartridge change makes filter changes far faster than traditional systems
- Low Cost Cartridge Maintenance
- Easy to install
- Systems equipped with modern faucet, all installation accessories, ready to install
- Colour Coded Cartridges
- **BACINIX™** nanosilver technology, providing antibacterial protection
- Made in EU
- Compact size for kitchen under counter cabinets
- Hinge bracket for easy cartridge removal and replacement
- Cartridges and membranes are installed by Push-In in filter housing head
- Manufactured from FDA CFR-21 compliant materials

**Cartridge set for  
EKOF4-SLIM-UV  
EKOF4-SLIM-UV-CRT**



**UV Lamp for system  
EKOF4-SLIM-UV**



P4-GT\_K

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size.
- Recommended for Families





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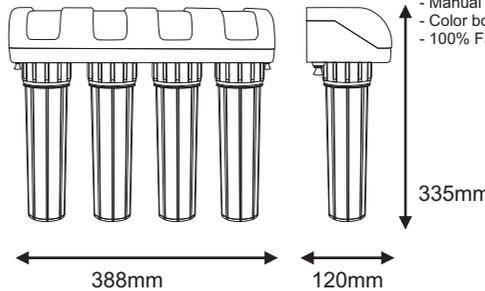
# EKOPF4-SLIM-UV

5 Stage UV System  
based on UV Final Stage



### Specifications:

**System dimensions:** (H x W x L): 335 x 120 x 388 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**UV Power Supply:** 220V - 240V / 50Hz - 60Hz  
**Operating Pressure:** 5.0 bar (75 psi)  
**Cap:** Filter housing cap - Polypropylene,  
**Filter housing (sump) - PET O-ring:** 2 x NBR



### The package contains:

- Cartridge Type include in set EKOPF4-SLIM-UF: FCPS20-SL, FCCST2-SL, FCCBL-SL, FCCM-SL
- UV lamp element type: FUV-P4W
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

### Important Notice:

Avoid cheap Water Filtration Systems and Cartridges which have no testing credentials or certifications, and often leach harmful chemicals into the water which are linked to cancer, birth defects and infertility.

In additional, cheap components may also lead to membrane fouling, leaks and general poor performance and product longevity.

Instead, choose Aquafilter tested and certified water filtration systems and cartridges.



In each filter cartridge, Aquafilter uses innovative BACINIX™ nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20-SL	1	<b>Sediment</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCST2-SL	2	<b>Ion exchange 2 in one</b> High quality ion exchange resin	<b>Step 1:</b> Water hardness reduction. <b>Step 2:</b> Reduces the concentration of iron.
FCCBL-SL	3	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon with other treatment media	<b>Step 1:</b> Carbon block filter is used to reduce chlorine, colour, odour and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances, improved taste and odour.
FCCM-SL	4	<b>Post-Carbon Filter-Antibacterial Mineralization 3 in one</b> Coconut shell activated carbon Re-Mineralization Filter Cartridge Antibacterial/Antimicrobial protection	<b>Step 1:</b> Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water. <b>Step 2:</b> Adds back important minerals such as magnesium, calcium and potassium. <b>Step 3:</b> Antibacterial/Antimicrobial properties, increases longevity of the cartridge preventing from microbiological growth.
FUV-P4W	5	<b>UV Lamp</b> Lamp for UV Water Treatment	UV chamber produces drinking water that is crystal clear and free from disease-causing pathogens including bacterial viral, or cystic contamination.

### Additional accessories



### NOTE:

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 2 or 4 months (depending on water quality).
- UV Light recommended to change every 1 year.
- Replace FCCM-SL cartridge every 1 year (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RX-AFRO3-AQ

**3 Stage Reverse Osmosis System  
for Aquarium**



Made in EU



## General Description:

**AQUAFILTER RX-AFR3-AQ** is a new type of aquarium filters. Water after RO system has decreased pH. It is an excellent source to prepare appropriate conditions for aquatic organisms.

System is equipped with two pre-filtration stages. The first is an in-line cartridge containing activated carbon. It effectively removes chlorine and organic substances. The second is sediment cartridge which removes sediments such as sand, silt, rust, etc.

The main filtration takes place on RO membrane, which removes 96-99% of all impurities from water. Wastewater is being poured to drain.

The aquarium filter is offered in set with filter cartridges, RO membrane, additional accessories and valves preventing the membrane from being dried.

\*pH of water after RO system depends on source water

## Features:

- High quality
- Competitive Pricing
- Three Stages of Filtration
- Hand Built & Factory Tested
- Ideal for aquariums
- High efficiency
- Provides excellent water quality
- Easy Maintenance
- Easy to install with System Specifications
- Made in EU





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# RX-AFRO3-AQ

## 3 Stage Reverse Osmosis System for Aquarium



### Specifications:

**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113° F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**

### The package contains:

- The RX-AFRO3-AQ comes complete with the following cartridges:  
 AICRO, AIPRO  
 - RO membrane element type: TFC-75F Manufactured by Filmtec™ for Aquafilter  
 - Automatic Shut-off Valve, Mini Flow Restrictor,
- Feed water connector: 1/2"  
 - Drain Saddle Valve, Filter housing wrench  
 - 1/4 inch Tubing for System Connection  
 - System built with quick type fittings  
 - Completely Assembled  
 - Manual instructions  
 - Color box  
 - 100% Factory Tested and Sterilized Ready for Installation

CATALOG#	STAGE	COMPONENT	FUNCTION
AICRO	1	In-line Coconut Shell Carbon Cartridge (Pre-Filter) Activated carbon	In-line Coconut Carbon filter is used to reduce chlorine, color, and other organic impurities
AIPRO	2	In-Line Sediment Cartridge (Pre-Filter) Spun-bounded polypropylene	10 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F	3	Reverse Osmosis Membrane Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.

### Additional accessories

<b>RX-AFRO3-AQ-CRT</b> Cartridge sets for RX-AFRO3-AQ	<b>TFC-75F</b> Reverse Osmosis Membrane	<b>OR-N-630X40</b> Top and bottom O-ring for the membrane housing	<b>AIMIAO2_K</b> Leak detection sensor	<b>PLV-0104-80</b> Pressure limiting valve	<b>AQCWW-W</b> Quick connectors wrench

### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5-3 years (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RX44111XXX

## 4 Stage Reverse Osmosis System



Made in EU



### General Description:

**AQUAFILTER offers RX44111XXX** - 4 stage RO filtration system suitable for undersink point-of-use installation. **RX44111XXX** provides a continuous supply of clean, fresh drinking water.

System include **FCPS5** filter cartridge, which removes sediments such as sand, silt, rust, suspended solids, carbon block **FCCBL** which removes chlorine, certain pesticides and organic compounds. RO membrane which is placed after the filters removes 96%-99% of all contaminants, including bacteria and most viruses (0,0001  $\mu\text{m}$  and larger).

The system is also equipped with an **AICRO** filter cartridge, which improves taste and odour of water. System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full.

### Features:

- High quality
- Competitive Pricing
- **WARRANTY: five (5) years**
- Four Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# RX44111XXX

## 4 Stage Reverse Osmosis System



### Specifications:

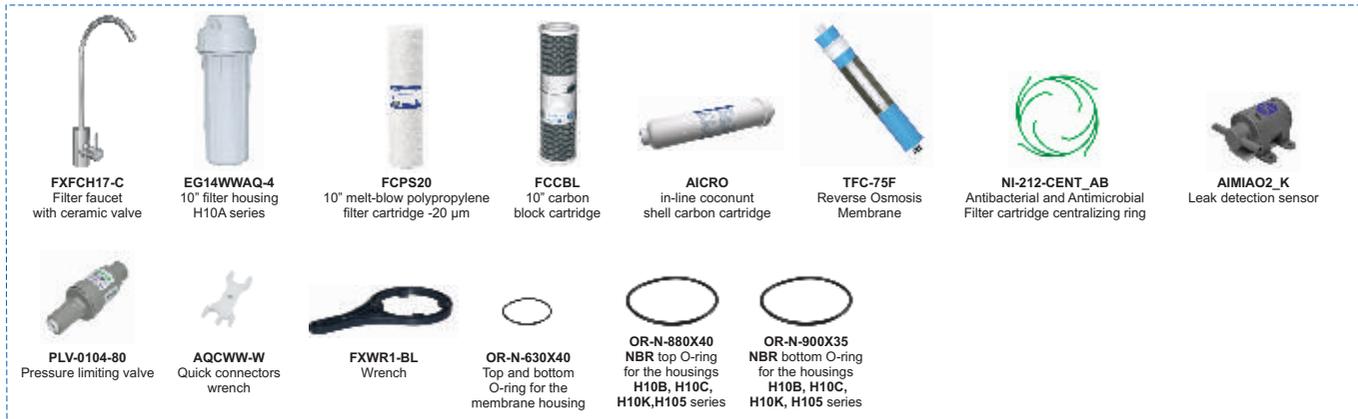
**System dimensions:** (H x W x L): 400 x 140 x 340 (mm)  
**Tank dimensions:** (H x D): 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113°F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tank Capacity:** 15 liters

### The package contains:

- The RX44111XXX comes complete with the following cartridges:  
 FCPS20, FCCBL, AICRO
- RO membrane element type: TFC-75F Manufactured by Filmtec™ for Aquafilter
- NSF 4.0 Gallons Plastic Water Tank (capacity 15 liters)
- NSF certified, Filter Housing (double o'ring)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector: 1/2"
- Drain Saddle Valve, Filter housing wrench
- Four Color Coded 1/4 inch Tubing for System Connection
- System built with quick type fittings
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPSS	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
TFC-75F	3	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	4	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5-3 years (depending on water quality)
- Replace AICRO post RO membrane cartridge every 1 year (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of five (5) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RX54111XXX

## 5 Stage Reverse Osmosis System



Made in EU



Possibility to install additional 2" in-line cartridges with FXBR3PN-IW port



Possibility to install additional 2 1/2" in-line cartridges and tighten mounting brackets for 2 1/2" in-line cartridges

### General Description:

AQUAFILTER offers RX54111XXX - 5 stage RO filtration system suitable for undersink point-of-use installation. RX54111XXX provides a continuous supply of clean, fresh drinking water.

System includes FCPS5 and FCPS20 filter cartridges, which remove sediments such as sand, silt, rust, suspended solids, carbon block FCCBL which removes chlorine, certain pesticides and organic compounds, and an RO membrane which is placed after the filters and removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger).

The system is also equipped with AICRO filter cartridge which improves taste and odour of water.

System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full.

### Features:

- High quality
- Competitive Pricing
- WARRANTY: five (5) years
- Five Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# RX54111XXX

## 5 Stage Reverse Osmosis System



### Specifications:

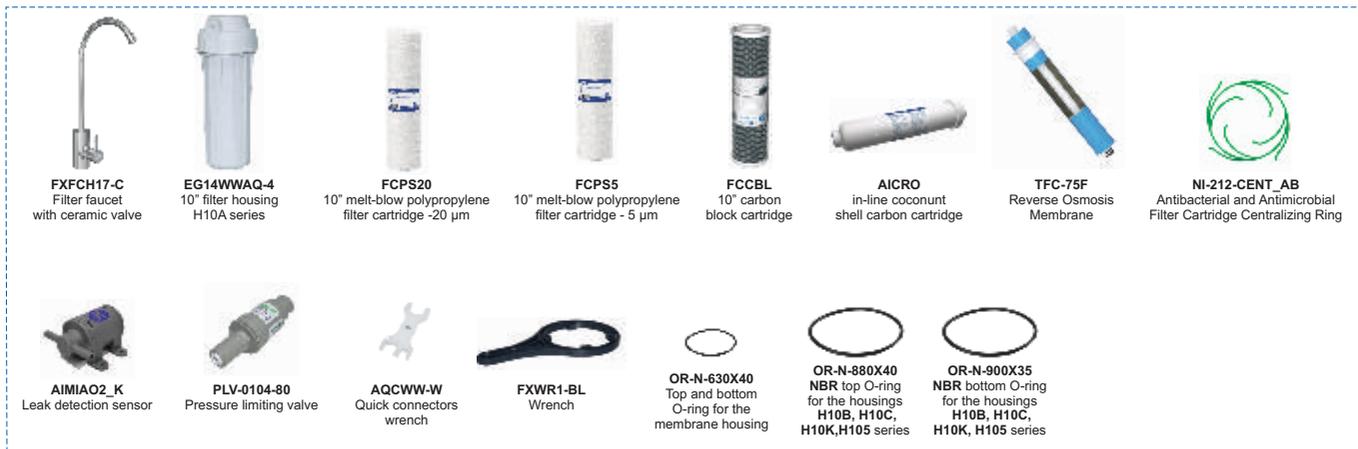
**System dimensions:** (H x W x L): 400 x 150 x 450 (mm)  
**Tank dimensions:** (H x D): 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113° F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tubing:** Polyethylene 1/4"  
**Tank Capacity:** 15 liters

### The package contains:

- The RX54111XXX comes complete with the following cartridges:
- FCPS20, FCCBL, FCPS5, AICRO
- RO membrane element type: TFC-75F Manufactured by Filmtec™
- NSF 4.0 Gallons Plastic Water Storage Tank (capacity 15 liters)
- NSF certified, Filter Housing (double o'ring)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector: 1/2"
- Drain Saddle Valve, Filter housing wrench
- Four Color Coded 1/4 inch Tubing for System Connection
- System built with quick type fittings
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
FCPS5	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- RO membrane recommended to change every 2.5-3 years (depending on water quality).
- Replace AICRO post RO membrane cartridge every 1 year (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of five (5) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RX541141XX

**6 Stage Reverse Osmosis System with Mineralizing Cartridge**



Made in EU



Possibility to install additional 2" in-line cartridges with FXBR3PN-1W port



Possibility to install additional 2 1/2" in-line cartridges and tighten mounting brackets for 2 1/2" in-line cartridges

## General Description:

AQUAFILTER offers RX541141XX - 6 stage RO filtration system suitable for undersink point-of-use installation.

RX541141XX provides a continuous supply of clean, fresh drinking water.

System includes **FCPS5** and **FCPS20** filter cartridges, which remove sediments such as sand, silt, rust, suspended solids, carbon block **FCCBL** which removes chlorine, certain pesticides and organic compounds, and an RO membrane which is placed after the filters removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger).

The system is also equipped with **AICRO** filter cartridge which improves taste and odour of water and **AIMRO** which adds minerals previously removed by RO membrane.

System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full.

## Features:

- High quality
- Competitive Pricing
- WARRANTY: five (5) years
- Six Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

## Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# RX541141XX

## 6 Stage Reverse Osmosis System with Mineralizing Cartridge



### Specifications:

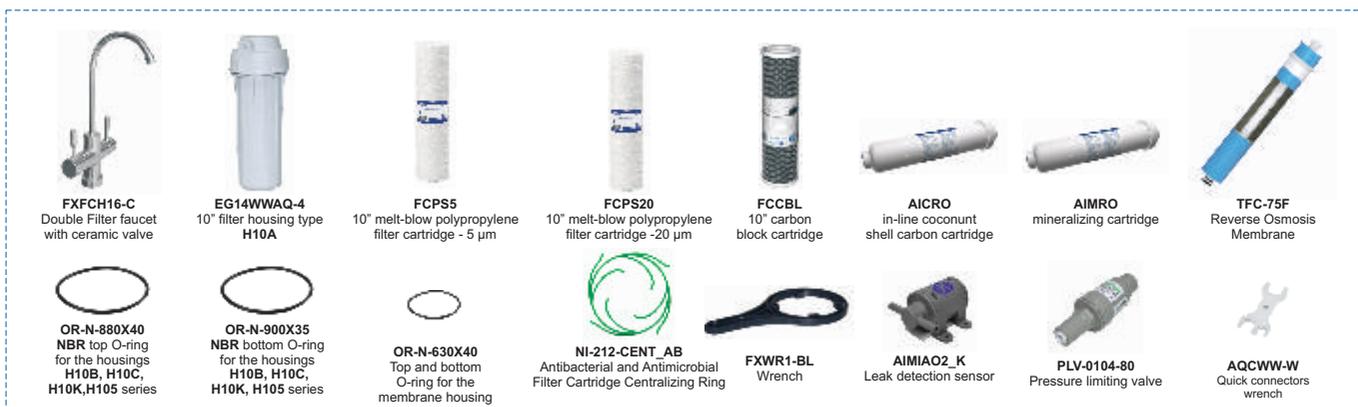
**System dimensions:** (H x W x L): 450 x 150 x 450 (mm)  
**Tank dimensions:** (H x D): 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113° F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids):** < 1800 ppm  
**Turbidity:** < 5 NTU  
**Tubing:** Polyethylene 1/4"  
**Tank Capacity:** 15 liters

### The package contains:

- The RX541141XX comes complete with the following cartridges:  
 FCPS20, FCCBL, FCPS5, AICRO, AIMRO
- RO membrane element type: TFC-75F Manufactured by Filmtec™
- NSF 4.0 Gallons Plastic - Water Storage Tank (capacity 15 liters)
- NSF certified, Filter Housing (double o'ring)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet: FXFCH16-C
- Feed water connector: 1/2"
- Drain Saddle Valve, Filter housing wrench
- Four Color Coded 1/4 inch Tubing for System Connection
- System built with quick type fittings
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
FCPS5	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water
AIMRO	6	<b>Post-mineralizing cartridge</b> Re-Mineralization Filter Cartridge	Enriches water with elements that are necessary for human body, such as: calcium, magnesium.

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- RO membrane recommended to change every 2.5-3 years (depending on water quality).
- Replace AICRO, AIMRO post RO membrane cartridge every 1 year (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of five (5) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RP942141XX

**6 Stage Reverse Osmosis System with Pump  
and Mineralizing Cartridge**



Made in EU



## General Description:

**AQUAFILTER offers RP942141XX** - 6 stage RO filtration system suitable for undersink point-of-use installation. **RP942141XX** provides a continuous supply of clean, fresh drinking water.

System includes **FCPS5** and **FCPS20** filter cartridges, which remove sediments such as sand, silt, rust, suspended solids, carbon block **FCCBL** which removes chlorine, certain pesticides and organic compounds, and an RO membrane which is placed after the filters, which removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger).

The system is also equipped with an **AICRO** filter cartridge which improves taste and odour of water, and **AIMRO** filter cartridge, which adds minerals previously removed by RO membrane.

System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full. A diaphragm pump to raise the pressure of the feed water is also included and is the ideal choice when the incoming water pressure is less than 2,8 bar.

## Features:

- High quality
- Competitive Pricing
- **WARRANTY: five (5) years**
- Six Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Diaphragm pump included
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# RP942141XX

## 6 Stage Reverse Osmosis System with Pump and Mineralizing Cartridge



### Specifications:

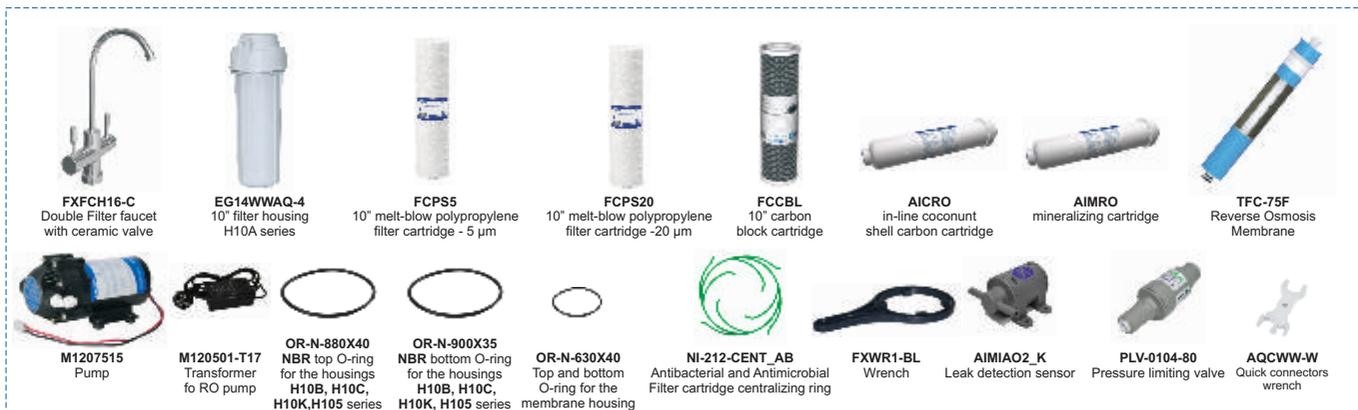
**System dimensions (H x W x L):** 400 x 140 x 340 (mm)  
**Tank dimensions (H x D):** 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113° F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) <** 1800 ppm  
**Turbidity <** 5 NTU  
**Tank Capacity:** 15 liters

### The package contains:

- The RP942141XX comes complete with the following cartridges:  
 FCPS20, FCCBL, FCPS5, AICRO, AIMRO
- RO membrane element type: TFC-75F Manufactured by Filmtec™
- Diaphragm pump (75 GPD)
- NSF 4.0 Gallons Plastic - Water Storage Tank (capacity 15 liters)
- NSF certified, Filter Housing (double o'ring)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet: FXFCH16-C
- Feed water connector: 1/2"
- Drain Saddle Valve
- Four Color Coded 1/4 inch Tubing for System Connection
- System built with quick type fittings
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
FCPS5	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water
AIMRO	6	<b>Post-mineralizing cartridge</b> Re-Mineralization Filter Cartridge	Enriches water with elements that are necessary for human body, such as: calcium, magnesium.

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
  - Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
  - We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
  - Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
  - RO membrane recommended to change every 2.5-3 years (depending on water quality).
  - Replace AICRO, AIMRO post RO membrane cartridge every 1 year (depending on water quality).
- LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of five (5) years from the date of original purchase.
- This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.
- We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RX5411411X

**7 Stage Reverse Osmosis System with Mineralizing & Ionizing Cartridges**



Made in EU



## General Description:

**AQUAFILTER offers RX5411411X** - 7 stage RO filtration system suitable for undersink point-of-use installation. **RX5411411X** provides a continuous supply of clean, fresh drinking water.

System includes **FCPS5** and **FCPS20** filter cartridges, which remove sediments such as sand, silt, rust, suspended solids, carbon block **FCCBL** which removes chlorine, certain pesticides and organic compounds, and an RO membrane which is placed after the filters and removes 96%-99% of all contaminants including bacteria and most viruses (0,0001  $\mu\text{m}$  and larger).

The system is also equipped with an **AICRO** filter cartridge which improves taste and odour of water and **AIMRO** which adds minerals previously removed by RO membrane.

As a final 7th filtration stage of this system, **AIFIR2000** ionizing cartridge balances pH factor of bodily fluids. It also aids in

## Features:

- High quality
- Competitive Pricing
- WARRANTY: five (5) years
- Seven Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# RX5411411X

## 7 Stage Reverse Osmosis System with Mineralizing & Ionizing Cartridges



### Specifications:

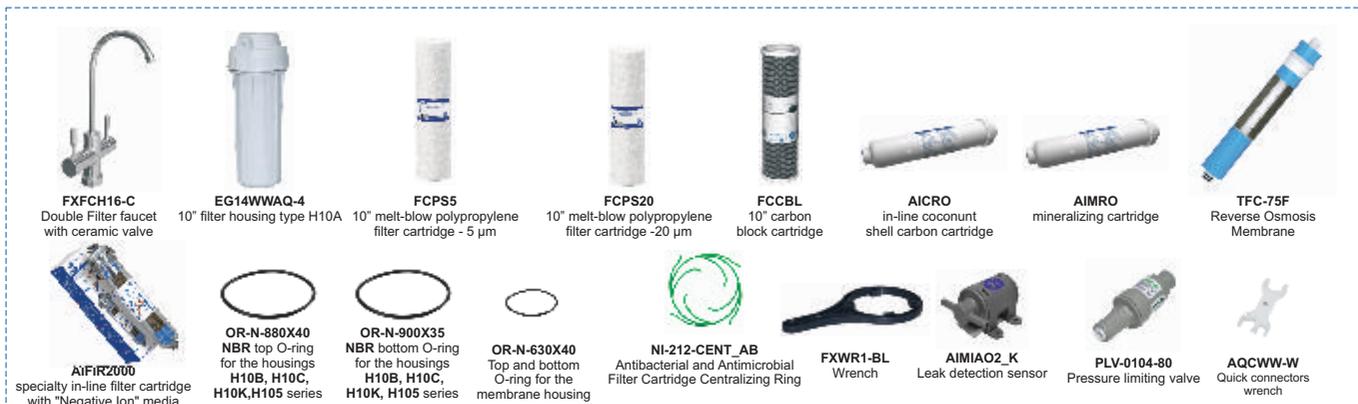
**System dimensions:** (H x W x L): 500 x 150 x 450 (mm)  
**Tank dimensions:** (H x D): 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113° F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tank Capacity:** 15 liters

### The package contains:

- The RX5411411X comes complete with the following cartridges: FCPS20, FCCBL, FCPS5, AICRO, AIMRO, AIFIR2000
- RO membrane element type: TFC-75F Manufactured by Filmtec™
- NSF 4.0 Gallons Plastic Water Storage Tank (capacity 15 liters)
- NSF certified, Filter Housing (double o'ring)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet FXFCH16-C
- Feed water connector: 1/2"
- Drain Saddle Valve, Filter housing wrench
- Four Color Coded 1/4 inch Tubing for System Connection
- System built with quick type fittings
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
FCPS5	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water
AIMRO	6	<b>Post-mineralizing cartridge</b> Re-Mineralization Filter Cartridge	Enriches water with elements that are necessary for human body, such as: calcium, magnesium.
AIFIR2000	7	<b>Post-bioceramic cartridge</b> Ionizer	Regulates body's pH factor and helps to detoxify body (ionized water is an excellent detoxifying agent).

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5-3 years (depending on water quality)
- Replace AICRO, AIMRO post RO membrane cartridge every 1 year (depending on water quality)
- Replace AIFIR2000 post RO membrane cartridge every 12 months (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of five (5) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# RX-RO5-NN

## 5 Stage Reverse Osmosis System



### Dreams come true !

Since we introduced this 5 Stage economic unit to the market, the response has been an incredible success. Why pay more?

#### Buy from the source and save money!

Our RX-RO5-NN comes complete with a NSF certified filter housings, 3.2 gallons plastic water storage tank, 75 GPD U.S.A made membrane and all the necessary fittings, installation kits, extra color 1/4" tubing, and a long-reach chrome faucet.

#### Reverse Osmosis is the most powerful method of filtration used today !

Reverse Osmosis (RO) is recognized as one of the best available technologies for producing best quality drinking water. It's also the same method used by many bottled water companies to make safe and great tasting water. No other home water treatment system can offer you as much protection and reliability.

### General Description:

**H2OO offers RX-RO5-NN** - 5 stage RO filtration system suitable for undersink point-of-use installation. **RX-RO5-NN** provides a continuous supply of clean, fresh drinking water.

System includes **WPP5H** and **WPP20H** filter cartridges, which remove sediments such as sand, silt, rust, suspended solids, carbon block WWBH which removes chlorine, certain pesticides and organic compounds.

An RO membrane which is placed after the filters removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger).

The system is also equipped with a **WWH1** filter cartridge which improves taste and odour of water. System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full.

### Features:

- High quality
- OEM product - just insert your own logo
- Competitive Pricing
- Five Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space.
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families



# RX-RO5-NN

## 5 Stage Reverse Osmosis System



### Specifications:

**System dimensions:** (H x W x L): 400 x 140 x 390 (mm)  
**Tank dimensions:** (H x D): 345 x 235 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113°F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**

### The package contains:

- The RX-RO5-NN comes complete with the following cartridges:
- WPP20H, WWBH, WPP5H, WWH1,
- RO membrane element type: TFC-75F-AQM.
- 3.2 Gallons Plastic Water Storage Tank (capacity 12 liters).
- Filter Housing (double o'ring).
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve.
- Long Reach Chrome Faucet.
- Feed water connector.
- Drain Saddle Valve. Filter housing wrench
- Four Color Coded 1/4 inch Tubing for System Connection.
- System built with quick type fittings
- Completely Assembled.
- 100% Factory Tested and Sterilized Ready for Installation.

CATALOG#	STAGE	COMPONENT	FUNCTION
WPP20H	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
WWBH	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
WPP5H	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F-AQM	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
WWH1	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated I carbon cartridge provides the final polishing and assures good tasting drinking water.

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5 -3 years (depending on water quality)
- Replace WWH1 post RO membrane cartridge every 1 year (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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Contact us: [info@h2oo.com](mailto:info@h2oo.com)



# RX-RO6-NN

## 6 Stage Reverse Osmosis System with Mineralizing Cartridge



### Dreams come true !

Since we introduced this 6 Stage economic unit to the market, the response has been an incredible success. Why pay more?

#### Buy from the source and save money!

Our RX-RO6-NN comes complete with a NSF certified filter housings, 3.2 gallons plastic water storage tank, 75 GPD U.S.A made membrane and all the necessary fittings, installation kits, extra color 1/4" tubing, and a long-reach chrome faucet.

#### Reverse Osmosis is the most powerful method of filtration used today !

Reverse Osmosis (RO) is recognized as one of the best available technologies for producing best quality drinking water.

It's also the same method used by many bottled water companies to make safe and great tasting water.

No other home water treatment system can offer you as much protection and reliability.

### General Description:

**H2O offers RX-RO6-NN** - 6 stage RO filtration system suitable for undersink point-of-use installation. **RX-RO6-NN** provides a continuous supply of clean, fresh drinking water.

System includes **WPP5H** and **WPP20H** filter cartridges, which remove sediments such as sand, silt, rust, suspended solids, carbon block **WWBH** which removes chlorine, certain pesticides and organic compounds.

An RO membrane which is placed after the filters removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger). The system is also equipped with **WWH1** filter cartridge which improves taste and odour of water and **WMH1** which adds minerals previously removed by RO membrane.

System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full.

### Features:

- High quality
- OEM product - include your own logo
- Competitive Pricing
- Six Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

### Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families



# RX-RO6-NN

## 6 Stage Reverse Osmosis System with Mineralizing Cartridge



### Specifications:

**System dimensions (H x W x L):** 450 x 140 x 390 (mm)  
**Tank dimensions (H x D):** 345 x 235 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113°F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**

### The package contains:

- The RX-RO6-NN comes complete with the following cartridges: WPP20H, WWBH, WPP5H, WWH1, WMH1
- RO membrane element type: TFC-75F-AQM.
- 3.2 Gallons Plastic Water Storage Tank (capacity 12 liters).
- Filter Housing (double o'ring).
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve.
- Long Reach Chrome Faucet.
- Feed water connector.
- Drain Saddle Valve, Filter housing wrench.
- Four Color Coded 1/4 inch Tubing for System Connection.
- System built with quick type fittings.
- Completely Assembled.
- 100% Factory Tested and Sterilized Ready for Installation.

CATALOG#	STAGE	COMPONENT	FUNCTION
WPP20H	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
WWBH	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
WPP5H	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F-AQM	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
WWH1	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated carbon cartridge provides the final polishing and assures good tasting drinking water.
WMH1	6	<b>Post-mineralizing cartridge</b> Re-Mineralization Filter Cartridge	Enriches water with elements that are necessary for human body, such as: calcium, magnesium.

### Additional accessories



EG14WWAQ-5  
10" filter housing  
H10K series

WPP5H  
10" melt-blow polypropylene  
filter cartridge - 5 µm

WPP20H  
10" melt-blow polypropylene  
filter cartridge - 20 µm

WWBH  
10" carbon  
block cartridge

WWH1  
in-line carbon cartridge

WMH1  
mineralizing cartridge

TFC-75F-AQM  
Reverse Osmosis  
Membrane

OR-N-880X40  
NBR top O-ring  
for the housings  
H10B, H10C,  
H10K, H105 series

OR-N-910X35  
NBR bottom O-ring  
for the housings  
H10B, H10C,  
H10K, H105 series

OR-N-630X40  
Top and bottom  
O-ring for the  
membrane housing

NI-212-CENT\_AB  
Antibacterial and Antimicrobial  
Filter Cartridge Centralizing Ring

FXWR1-BL  
Wrench

AIMIAO2\_K  
Leak detection sensor

PLV-0104-60  
Pressure limiting valve

### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5 - 3 years (depending on water quality)
- Replace WMH1 and WWH1 post RO membrane cartridge every 1 year (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system the claim will be denied.

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Contact us: [info@h2oo.com](mailto:info@h2oo.com)



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

# HX141144XX

**6 Stage In-box Reverse Osmosis System  
with Mineralizing Cartridges**



Made in EU



## General Description:

**AQUAFILTER** offers HX141144XX - 6 stage RO filtration system suitable for undersink point-of-use installation.

**HX141144XX** provides a continuous supply of clean, fresh drinking water. System includes **FCPS5** filter cartridge, which remove sediments such as sand, silt, rust, suspended solids, carbon block **FCCBL** which removes chlorine, certain pesticides and organic compounds.

An RO membrane which is placed after the filters removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger). The system is also equipped with **AISTRO**, water softening in-line filter cartridge, **AICRO** in-line filter cartridge which improves taste and odour of water and **AIMRO** in-line filter cartridge which adds minerals previously removed by RO membrane.

System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full. Entire system is enclosed in aesthetic casing.

## Features:

- High quality
- Competitive Pricing
- Six Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment
- Recommended for Families





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# HX141144XX

## 6 Stage In-box Reverse Osmosis System with Mineralizing Cartridges

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS5	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	5 micron sediment filter traps dirt, sediment, rust and other particulate matter.
AISTRO	2	<b>Ion exchange</b> High quality ion exchange resin	Reduces water hardness.
FCCBL	3	<b>Carbon block Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities
TFC-75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	5	<b>Post-Carbon Filter</b> GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water
AIMRO	6	<b>Post-mineralizing cartridge</b> Re-Mineralization Filter Cartridge	Enriches water with elements that are necessary for human body, such as: calcium, magnesium.

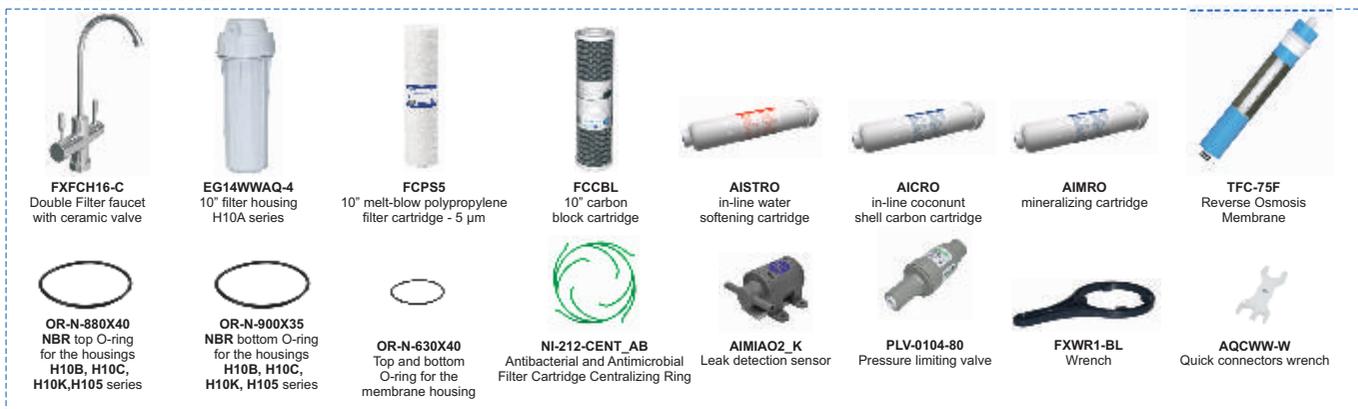
### Specifications:

**System dimensions:** (H x W x L): 400 x 200 x 420 (mm)  
**Tank dimensions:** (H x D): 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tank Capacity:** 15 liters

### The package contains:

- The HX141144XX comes complete with the following cartridges: FCPS5, FCCBL, FCPS5, AISTRO, AICRO, AIMRO
- RO membrane element type: TFC-75F Manufactured by Filmtec™
- NSF 4.0 Gallons Plastic - Water Storage Tank (capacity 15 liters)
- NSF certified, Filter Housing (double o'ring)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet FXECH16-C
- Feed water connector: 1/2"
- Drain Saddle Valve, Filter housing wrench
- Four Color Coded 1/4 inch Tubing for System Connection
- Completely Assembled, System built with quick type fittings
- Manual instructions, Color box
- 100% Factory Tested and Sterilized Ready for Installation

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- RO membrane recommended to change every 2.5 - 3 years (depending on water quality).
- Replace AICRO, AIMRO post RO membrane cartridge every 1 year (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# SX2423522X

**7 Stage In-box Reverse Osmosis System with Mineralizing & Ionizing Cartridges**



Made in EU



## General Description:

**AQUAFILTER offers SX2423522X** - 7 stage RO filtration system suitable for undersink point-of-use installation. **SX2423522X** provides a continuous supply of clean, fresh drinking water.

System includes two in-line filters: **AIPRO-20M** and **AIPRO-1M**, which remove sediments such as sand, silt, rust and suspended solids, and carbon filter **AICRO-L** which removes chlorine, certain pesticides and organic compounds.

An RO membrane which is placed after the filters removes 96%-99% of all contaminants including bacteria and most viruses (0,0001 µm and larger).

The system is also equipped with **AICRO** filter cartridge, which improves taste and odour of water and **AIMRO**, which adds minerals previously removed by RO membrane. As a final 7th filtration stage of this system, **AIFIR2000** ionizing cartridge balances pH factor of bodily fluids. It also participates in detoxifying the body.

System is equipped with automatic shut-off valve to eliminate waste by closing the feed line when the tank is full. Entire system is enclosed in an aesthetic and compact shell.

## Features:

- High quality
- Competitive Pricing
- Seven Stages of Filtration
- Hand Built & Factory Tested
- Easy Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Improved taste and odor of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Produces clearer ice
- Less expensive than bottled water
- Made in EU
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# SX2423522X

## 7 Stage In-box Reverse Osmosis System with Mineralizing & Ionizing Cartridges

CATALOG#	STAGE	COMPONENT	FUNCTION
AIPRO-20M	1	In-Line Sediment Pre-Filter Spun-bounded polypropylene	20 micron in-line sediment filter traps dirt, sediment, rust and other particulate matter.
AICRO-L	2	In-Line GAC Pre-Filter Extruded activated carbon	In-line GAC filter is used to reduce chlorine, color, odor and other organic impurities
AIPRO-1M	3	In-Line Sediment Pre-Filter Spun-bounded polypropylene	5 micron in-line sediment filter traps dirt, sediment, rust and other particulate matter.
TFC-75F	4	Reverse Osmosis Membrane Thin Film Composite (75 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
AICRO	5	Post-Carbon Filter GAC activated carbon	Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water
AIMRO	6	Post-mineralizing cartridge Re-Mineralization Filter Cartridge	Enriches water with elements that are necessary for human body, such as: calcium, magnesium.
AIFIR2000	7	Post-bioceramic cartridge Ionizer	Regulates body's pH factor and helps to detoxify body (ionized water is an excellent detoxifying agent).

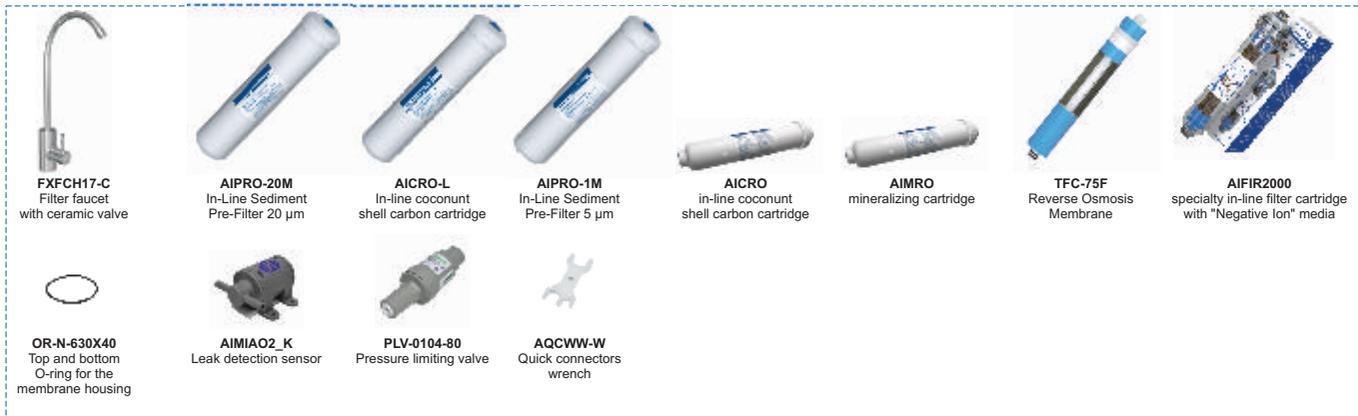
### Specifications:

**System dimensions:** (H x W x L): 400 x 200 x 420 (mm)  
**Tank dimensions:** (H x D): 380 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**

### The package contains:

- The SX2423522X comes complete with the following cartridges:  
 AIPRO-20M, AICRO-L, AIPRO-1M, AICRO, AIMRO, AIFIR2000
- RO membrane element type: TFC-75F Manufactured by Filmtec™
- NSF 4.0 Gallons Plastic - Water Storage Tank (capacity 15 liters)
- Automatic Shut-off Valve, Mini Flow Restrictor, Check Valve
- Long Reach Chrome Faucet FXFCH17-C
- Feed water connector: 1/2"
- Drain Saddle Valve
- Four Color Coded 1/4 inch Tubing for System Connection
- Completely Assembled, System built with quick type fittings
- Manual instructions, Color box
- 100% Factory Tested and Sterilized Ready for Installation

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5 - 3 years (depending on water quality)
- Replace AICRO, AIMRO post RO membrane cartridge every 1 year (depending on water quality)
- Replace AIFIR post RO membrane cartridge every 6 months (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EKOPF4-SLIM-RO5

## 5 Stage Reverse Osmosis System

### General Description:

**EKOPF4-SLIM-RO** AQUAFILTER Push-In Reverse Osmosis Drinking Water System 75 GPD

Five stage filtration system

A leading high quality water filtration product is crucial in everyone's house.

Apart from food, people today depend on water for healthy living. When water becomes contaminated, individuals may be exposed to life-threatening illnesses.

Setting up a water filter for your house makes a superb start.

The solution for contaminated tap water is a quick and cost-effective house appliance that offers clean, healthful and chemical-free water.

Primarily based on their filtration capacity, Aquafilter water filters offer the type of protection every family needs to maintain good health.

Aquafilter Push-In type cartridges for RO systems are so easy to service you'll get great quality water every time!



Made in EU



### Features:

- High quality
- Competitive Pricing
- Five Stages of Filtration
- Hand Built & Factory Tested
- Push-In cartridge change makes filter changes far faster than traditional systems
- Low Cost Cartridge Maintenance
- Easy to install
- Systems equip with modern faucet, all installation accessories, ready to install
- Colour Coded Cartridges
- **BACINIX™** nanosilver technology, provides antibacterial protection
- Made in EU
- Compact size for kitchen under counter cabinets
- Hinge bracket for easy cartridge removal and replacement
- Cartridges and membranes are installed by Push-In in filter housing head
- Manufactured from FDA CFR-21 compliant materials

Cartridge set for EKOPF4-SLIM-RO

RO Membrane for EKOPF4-SLIM-RO



FCPS20-SL

FCBBL-S-SL

FCPS5-SL

FCCM-SL



TLC75FT

### Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families





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# EKOPF4-SLIM-RO5

## 5 Stage Reverse Osmosis System



### Specifications:

**System dimensions:** (H x W x L): 385 x 388 x 120 (mm)  
**Tank dimensions:** (H x D): 400 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Operating Pressure:** Max.6.0 bar (90 PSI) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tank Capacity:** 15 liters"  
**Material:** Filter housing cap - Polypropylene,  
 Filter housing (sump) -PET

### The package contains:

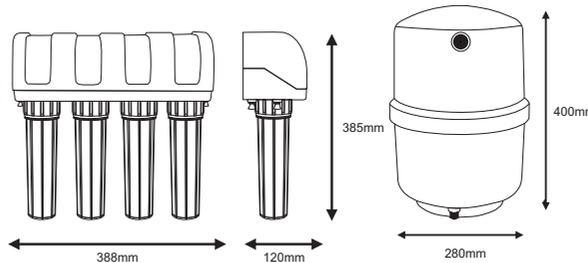
- Cartridge Type include in set EKOPF4-SLIM-RO5
- FCPS20-SL, FCCBL-S-SL, FCPS5-SL, TLC75FT, FCCM-SL
- RO membrane element type: TFC75FT
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

### Important Notice:

Avoid cheap Water Filtration Systems and Cartridges which have no testing credentials or certifications, and often leach harmful chemicals into the water which are linked to cancer, birth defects and infertility.

In additional, cheap components may also lead to membrane fouling, leaks and general poor performance and product longevity.

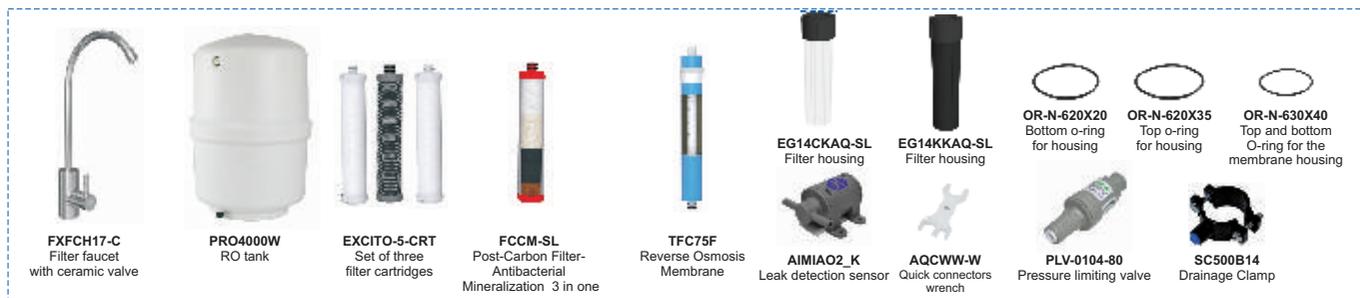
Instead, choose Aquafilter tested and certified water filtration systems and cartridges.



In each filter cartridge, Aquafilter uses innovative BACINIX™ nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20-SL	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL-S-SL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon with other treatment media	<b>Step 1:</b> Carbon block filter is used to reduce chlorine, colour, odour and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances, improves taste and odor.
FCPS5-SL	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	Sediment filter traps dirt, sediment, rust and other particulate matter 5 micron.
TFC75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	RO membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more.
FCCM-SL	5	<b>Post-Carbon Filter-Antibacterial Mineralization 3 in one</b> Coconut shell activated carbon Re-Mineralization Filter Cartridge Antibacterial/Antimicrobial protection	<b>Step 1:</b> Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water. <b>Step 2:</b> Adds back important minerals such as magnesium, calcium and potassium. <b>Step 3:</b> Antibacterial/Antimicrobial properties, increases longevity of the cartridge, preventing microbiological growth.

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- RO membrane recommended to change every 2.5-3 years (depending on water quality).
- Replace FCCM-SL post RO membrane cartridge every 1 year (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EXCITO-5

**5 Stage RO Filtration System  
based on "UDF-SLIM" Cartridge Type**

## General Description:

**EXCITO-5 AQUAFILTER** Push-In type cartridges  
Reverse Osmosis Drinking Water System 75 GPD

A leading high quality water filtration technique is crucial in everyone's house.

Apart from food, people today depend on water for healthy living. When water becomes contaminated, individuals may be subjected to life threatening illnesses.

Setting up a water filter for your house makes a superb start.

The solution for potentially contaminated tap water is a quick and cost-effective house appliance that offers clean, healthful and chemical-free water.

Primarily based on its filtration capacity, **Aquafilter** water filters offer the type of protection every family needs to maintain good health.

Aquafilter Push-In type cartridges for RO systems are so easy to service, you'll get great quality water every time!



Made in EU



## Features:

- High quality
- Competitive Pricing
- Five Stages of Filtration
- Hand Built & Factory Tested
- Push-In cartridge makes filter changes far faster than traditional systems
- Low Cost Maintenance
- Easy to install with System Specifications
- Systems equipped with modern faucet, all installation accessories, ready to install
- Colour Coded Cartridges
- Cartridges have double O-rings to facilitate proper filtration
- **BACINIX™** nanosilver technology, provides antibacterial protection
- Made in EU
- Compact size for kitchen under counter cabinets
- Hinge bracket for easy cartridge removal and replacement
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families

**Cartridge set for EXCITO-5  
EXCITO-5-CRT**



**RO Membrane for  
EXCITO-5**





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# EXCITO-5

## 5 Stage RO Filtration System based on "UDF-SLIM" Cartridge Type



### Specifications:

**System dimensions:** (H x W x L): 438 x 100 x 360 (mm)  
**Tank dimensions:** (H x D): 400 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)  
**Operating Pressure:** Max. 6.0 bar (90 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tank Capacity:** 15 liters

### The package contains:

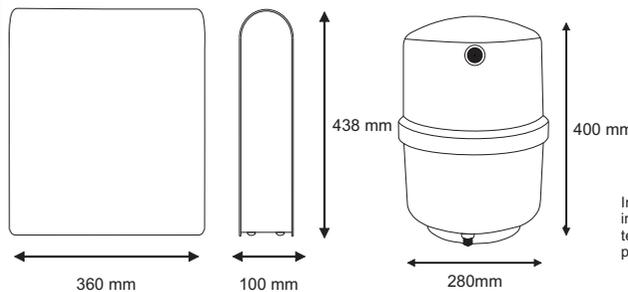
- Cartridge Type include in set EXCITO-5: FCPS20-SL, FCCBL-S-SL, FCPS5-SL, TLC75FT, FCCM-SL
- RO membrane element type: TFC75F Manufactured by Filmtec™ for Aquafilter
- NSF 4.0 Gallons Plastic - Water Storage Tank (capacity 15 liters)
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2", Drain Saddle Valve
- 1/4" inch Tubing for System Connection
- Completely Assembled, System built with quick type fittings
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

### Important Notice:

Avoid cheap Water Filtration Systems and Cartridges which have no testing credentials or certifications, and often leach harmful chemicals into the water which are linked to cancer, birth defects and infertility.

In addition, cheap components may also lead to membrane fouling, leaks and general poor performance and product longevity.

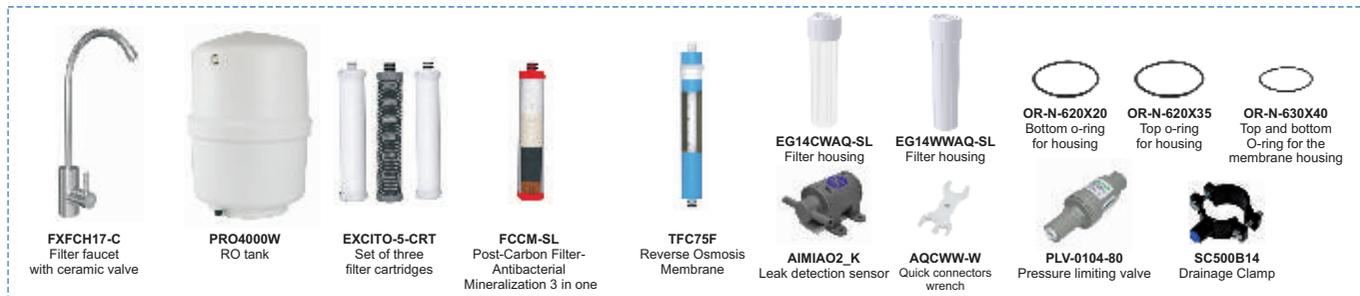
Instead, choose Aquafilter tested and certified water filtration systems and cartridges.



In each filter cartridge, Aquafilter uses innovative **BACINIX™** nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20-SL	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL-S-SL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon with other treatment media	<b>Step 1:</b> Carbon block filter is used to reduce chlorine, colour, odour and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances: improved taste and odor.
FCPS5-SL	3	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	Sediment filter traps dirt, sediment, rust and other particulate matter 5 micron.
TFC75F	4	<b>Reverse Osmosis Membrane</b> Thin Film Composite (75 GPD), 0.0001 micron	RO membrane will remove salts, minerals, metals, bacteria, viruses, cysts, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more.
FCCM-SL	5	<b>Post-Carbon Filter-Antibacterial Mineralization 3 In one</b> Coconut shell activated carbon Re-Mineralization Filter Cartridge Antibacterial/Antimicrobial protection	<b>Step 1:</b> Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water. <b>Step 2:</b> Adds back important minerals such as magnesium, calcium and potassium. <b>Step 3:</b> Antibacterial/Antimicrobial properties, increases longevity of the cartridge preventing from microbiological growth.

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- RO membrane recommended to change every 2.5 - 3 years (depending on water quality).
- Replace FCCM-SL post-RO membrane cartridge every 1 year (depending on water quality).

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# EXCITO-OSSMO

**4 Stage RO Filtration System  
based on "TWIST" Cartridge Type**

## General Description:

**EXCITO-OSSMO AQUAFILTER** Quick Twist Reverse Osmosis Drinking Water System 75 GPD.

A leading high quality water filtration technique is crucial in everyone's house.

Apart from food, people today depend on water for healthy living. When water becomes contaminated, individuals may be exposed to life-threatening illnesses.

Setting up a water filter for your house makes a superb start.

The solution for potentially contaminated tap water is a quick and cost-effective house appliance that offers clean, healthful and chemical-free water.

Primarily based on its filtration capacity, **Aquafilter** water filters offer the type of protection for all family needs to maintain good health.

**Aquafilter** Quick-Twist type cartridges for RO systems are so easy to service you'll get great quality water every time!

**Cartridge exchange is quick and easy.**



**Cartridge set for EXCITO-OSSMO**



Made in EU

## Features:

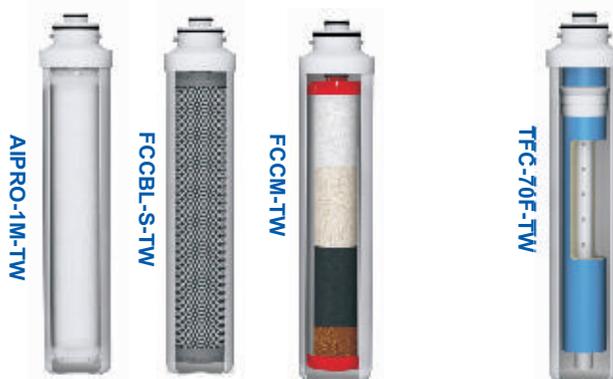
- High quality
- Four Stages of Filtration
- WARRANTY: five (5) years
- Competitive Pricing
- Hand Built & Factory Tested
- Quick change technology makes filter changes far faster than traditional systems
- No messy filter housings to deal with when cartridges are removed
- Easy Maintenance
- Easy to install with System Specifications
- Systems equip with modern faucet, all installation accessories, ready to install
- Colour Coded Cartridges
- Cartridges have double O-rings to prevent leakage
- **BACINIX™** nanosilver technology, providing antibacterial protection
- Made in EU
- Compact size for kitchen under counter cabinets
- Hinge bracket for easy cartridge removal and replacement
- Cartridges and membranes are installed and removed by simple 1/4 turn
- Manufactured from FDA CFR-21 compliant materials

## Recommendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household and will easily fit into any space
- Kitchen compact, undercounter, home and apartment size
- Recommended for Families

**EXCITO-OSSMO-CRT**

**RO Membrane  
for EXCITO-OSSMO**





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# EXCITO-OSSMO

**4 Stage RO Filtration System  
based on "TWIST" Cartridge Type**



**Specifications:**

**System dimensions:** (H x W x L): 399 x 90 x 345 (mm)  
**Tank dimensions:** (H x D): 400 x 280 (mm)  
**Connection adapter:** 1/2"  
**Working Temp.:** 2°C - 45°C (35° F - 113°F)  
**Operating Pressure:** Max. 4.0 bar (60 psi) Min. 2.8 bar (40 psi)  
**Typical Rejection Rate:** 98% TDS (Total Dissolved Solids)  
**pH Parameters:** Maximum 11 Minimum 2  
**Iron:** Maximum 0.2 ppm  
**TDS (Total Dissolved Solids) < 1800 ppm**  
**Turbidity < 5 NTU**  
**Tank Capacity:** 15 liters

**The package contains:**

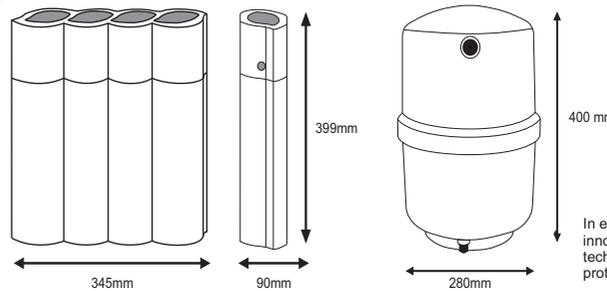
- Cartridge Type include in set EXCITO-OSSMO:
- AIPRO-1M-TW, FCCBL-S-TW, TFC-70F-TW, FCCM-TW
- RO membrane element type: TFC-70F-TW
- Long Reach Chrome Faucet: FXFCH17-C
- Feed water connector 1/2"
- 1/4" inch Tubing for System Connection
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

**Important Notice:**

Avoid cheap Water Filtration Systems and Cartridges which have no testing credentials or certifications, and often leach harmful chemicals into the water which are linked to cancer, birth defects and infertility.

In addition, cheap components may also lead to membrane fouling, leaks and general poor performance and product longevity.

Instead, choose Aquafilter tested and certified water filtration systems and cartridges.



In each filter cartridge, Aquafilter uses innovative BACINIX™ nanosilver technology, providing anti-bacterial protection.

CATALOG#	STAGE	COMPONENT	FUNCTION
AIPRO-1M-TW	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	Five micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL-S-TW	2	<b>Carbon Cartridge Pre-Filter 2in one</b> Extruded activated carbon with other treatment media	<b>Step 1:</b> Carbon block filter is used to reduce chlorine, colour, odour and other organic impurities. <b>Step 2:</b> Reduces the levels of iron, heavy metals, pesticides, organic substances, improved taste and odor.
TFC-70F-TW	3	<b>Reverse Osmosis Membrane</b> Thin Film Composite (70 GPD), 0.0001 micron	Semi-permeable membrane will remove salts, minerals, metals, bacteria, viruses, cysts, TDS, Hardness, Fluorides, Pesticides, Lead, Mercury, Cadmium & Arsenic and more. Due to the time needed to remove all these ingredients your RO system includes a storage tank.
FCCM-TW	4	<b>Post-Carbon Filter-Antibacterial Mineralization 3 in one</b> Coconut shell activated carbon Re-Mineralization Filter Cartridge Antibacterial/Antimicrobial protection	<b>Step 1:</b> Post Carbon Filtration granular activated coconut shell carbon cartridge provides the final polishing and assures good tasting drinking water <b>Step 2:</b> Adds back important minerals such as magnesium, calcium and potassium. <b>Step 3:</b> Antibacterial/Antimicrobial properties, increases longevity of the cartridge preventing microbiological growth.

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality)
- RO membrane recommended to change every 2.5-3 years (depending on water quality)
- Replace FCCM-TW post RO membrane cartridge every 1 year (depending on water quality)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions. We strongly recommend adding to all point of use filtration systems a Pressure Limiting Valve (PLV-0104 series) to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# FHPR34-B1-TWIN

## 2 Stage Anti-Scale In-Line System



Made in EU

### General Description:

**AQUAFILTER FHPR34-B1-TWIN** - two-stage Anti-Scale System

Salt Free - Anti-Scale System. Without removing hardness or minerals **FHPR34-B1-TWIN** units cause water to act like soft water.

Now you can get many of the benefits of an anti-scale filter system with zero waste and zero electricity.

- Zero Chemicals, or Salt
- Reduces scale build up on fixtures and appliances
- Sinks, shower doors and tile will have less spotting
- Protects water heaters, dishwashers, fixtures and more
- Whiter whites and brighter colors in the laundry
- Great soft water quality throughout your whole house
- The system is equipped with a transparent housing for rapid assessment of cartridge contamination level and filter housing wrench
- All components and the anti-scale module are certified



**Set include:**

- 2 x 10" filtr housing
- filter cartridge 5 µm (FCPS5)
- polyphosphate crystal cartridge anti-scale conditioning (FCPRA-10)
- mounting bracket with screws
- wrench
- instruction

### Features:

- High quality
- Competitive Pricing
- Two Stages of Filtration
- 1st stage: 10" disposable cartridge 5-micron sediment filter reduces dirt
- 2nd stage: anti-scale cartridge (polyphosphate)
- **WARRANTY: two (2) years**
- Hand Built & Factory Tested
- All Natural Scale Reduction & Prevention System
- Easier Scale Cleanup of Tubs, Sinks & Appliances
- Prevents sediment and scale build up at Point Of Entry systems
- Ideal for family use as POE
- Low cost scale removal
- Maintenance Free -Saves \$, Time and Labor
- Easy to connect to cold water inlet
- Easy to install, No Electricity, No Drain Required
- Heavy-duty filter housings
- Full flow 3/4"ports
- Easy to install with System Specifications
- Systems ready to install
- Compact size for kitchen under counter cabinets
- Manufactured from FDA CFR-21 compliant materials
- Made in EU with High Performance Components



Scale-free potable water



Protects before scaling



Reduces detergent use



### Applications:

For 1-3 Bathroom Homes  
Anti-Scale System for whole house





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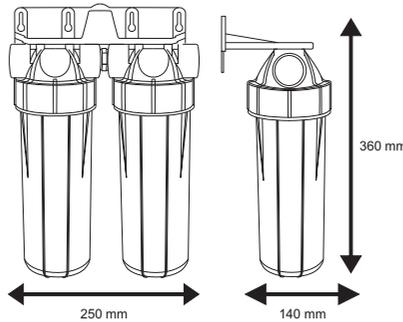
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# FHPR34-B1-TWIN

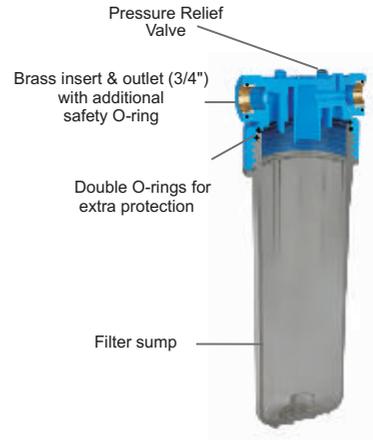
## 2 Stage Anti-Scale In-Line System

### Specifications:

Dimensions (H x W x L): 360 x 140 x 250 (mm)  
 Thread Diameter: 3/4" FIP BSP  
 Working Temp.: 2°C - 45°C (36° F - 113° F)  
 Working pressure: 6 bar (90 PSI)  
 Clear Filter Housing (Sump) - Material: PET  
 Filter Housing Cap - Material: PP  
 Number of O-rings inside filter housing head: 2  
 Cartridge dimensions: 9 7/8" x 2 1/2" (250 mm x 65 mm)  
 Pressure Relief Valve: Yes



### Filter Housing Cross-Section



CAT#	STAGE	COMPONENT	FUNCTION
FCPP5	1	<b>Sediment</b> String Wound Cartridge	Removes suspended impurities like particles, rust and sediment up to 5 micron.
FCPRA-10	2	<b>Anti-Scale Cartridge</b> Removal of existing hardness scale deposits (CaCO <sup>2</sup> )	Removes water borne sedimentation i.e. Scale, rust, lime, mud and silica that builds inside household equipment.

### Additional accessories

<b>FXWR1-BL</b> Wrench	<b>NI-212-CENT-GR-AB</b> Antibacterial and Antimicrobial Filter Cartridge Centralizing Ring	<b>OR-N-880X40</b> NBR top O-ring for the housings H10B, H10C, H10K, H105 series	<b>OR-N-910X35</b> NBR bottom O-ring for the housings H10B, H10C, H10K, H105 series	<b>PHS050*</b> Polyphosphate crystals 0,5 kg pack (small crystals)	<b>PHS075*</b> Silicophosphate crystals 0,75 kg pack anti-scale & anti-corrosion	<b>PHS150*</b> Polyphosphate crystals 1,5 kg pack (small balls-crystals)
<b>FCPSS</b> 10" melt-blow polypropylene filter cartridge - 5 µm	<b>FCPRA-10</b> Polyphosphate crystal cartridge anti-scale conditioning	<b>FCPRA-2S*</b> Twin function cartridge 1-stage-Polypropylene melt-blow 2-stage-Polyphosphate crystals	<b>FCPNNxM</b> Multi-use sediment filter cartridges (nylon mesh) for cold water <b>available microns:</b> 20, 50, 100, 150	<b>FCPNN20M</b> 20 mic. <b>FCPNN50M</b> 50 mic. <b>FCPNN100M</b> 100 mic. <b>FCPNN150M</b> 150 mic.		

### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality and water consumption)

**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.

This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.

We strongly recommend adding to all point of use and point of entry a Pressure Limiting Valve to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes. Not having one installed could mean that if you ever did have to claim damage caused by a burst water filter system, the claim will be denied.

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# FHPR34-B1-TWIN-B

**2 Stage Anti-Scale In-Line System  
with economical BY-PASS**

## General Description:

### AQUAFILTER FHPR34-B1-TWIN-B

Economical two-stage Anti-Scale System with Bypass Valves.

- Bypass Valves for Easy Maintenance.
- Salt Free - Anti-Scale System.
- Without removing hardness or minerals, FHPR34-B1-TWIN-B units cause water to act like soft water.

Now you can get many of the benefits of an anti-scale filter system with zero waste and zero electricity.

- Zero Chemicals, or Salt
- Reduces scale build up on fixtures and appliances
- Sinks, shower doors and tile will have less spotting
- Protects water heaters, dishwashers, fixtures and more
- Whiter whites and brighter colors in the laundry
- Great soft water quality throughout your whole house
- The system is equipped with a transparent housing for rapid assessment of cartridge contamination level and filter housing wrench.
- All components and the anti-scale module are certified

## Features:

- High quality
- Competitive Pricing
- Two Stages of Filtration
- 1st stage: 10" disposable cartridges 5-micron sediment filter reduces dirt
- 2nd stage: anti-scale cartridge (polyphosphate)
- WARRANTY: two (2) years
- Hand Built & Factory Tested
- All Natural Scale Reduction & Prevention System
- Easier Scale Cleanup of Tubs, Sinks & Appliances
- Prevent sediments and scale build up at Point Of Entry systems
- Ideal for family use as POE
- Low cost scale removal
- Maintenance Free -Saves \$, Time and Labor
- Easy to connect to cold water inlet
- Easy to install, No Electricity, No Drain Required
- Heavy-duty filter housings
- Full flow 3/4"ports
- Easy to install with System Specifications
- Systems ready to install
- Compact size for kitchen under counter cabinets
- Manufactured from FDA CFR-21 compliant materials
- Made in EU with High Performance Components

## Applications:

For 1-3 Bathrooms Homes  
Anti-Scale System for whole house



Made in EU



### Set include:

- 2 x 10" filtr housing
- by-pass
- filter cartridge 5 µm (FCPS5)
- polyphosphate crystal cartridge anti-scale conditioning (FCPRA-10)
- mounting bracket with screws
- wrench
- instruction



Scale-free potable water



Protects before scaling



Reduces detergent use





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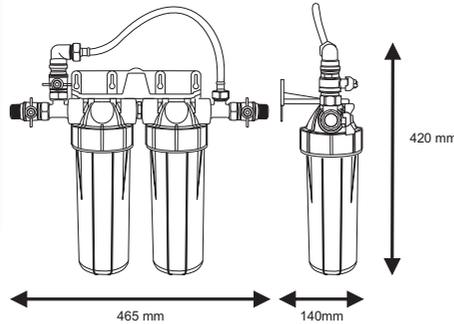
# FHPR34-B1-TWIN-B

**2 Stage Anti-Scale In-Line System with economical BY-PASS**

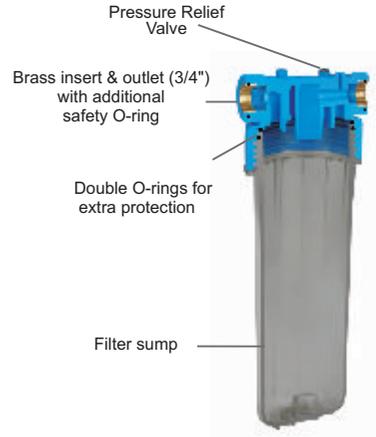


**Specifications:**

Dimensions (H x W x L): 420 x 140 x 465 (mm)  
Thread Diameter: 3/4" FIP BSP  
Working Temp.: 2°C - 45°C (36° F - 113° F)  
Working pressure: 6 bar (90 PSI)  
Clear Filter Housing (Sump) - Material: PET  
Filter Housing Cap - Material: PP  
Number of O-rings inside filter housing head: 2  
Cartridge dimensions: 9 7/8" x 2 1/2" (250 mm x 65 mm)  
Pressure Relief Valve: Yes



**Filter Housing Cross-Section**



CAT#	STAGE	COMPONENT	FUNCTION
FCPP5	1	<b>Sediment</b> String Wound Cartridge	Removes suspended impurities like particles, rust and sediment up to 5 micron.
FCPRA-10	2	<b>Anti-Scale Cartridge</b> Removal of existing hardness scale deposits (CaCO <sup>3</sup> )	Removes water borne sedimentation i.e. Scale, rust, lime, mud and silica that builds inside household equipment.

**Additional accessories**

<b>FXWR1-BL</b> Wrench	<b>NI-212-CENT-GR-AB</b> Antibacterial and Antimicrobial Filter Cartridge Centralizing Ring	<b>OR-N-880X40</b> NBR top O-ring for the housings H10B, H10C, H10K, H105 series	<b>OR-N-910X35</b> NBR bottom O-ring for the housings H10B, H10C, H10K, H105 series	<b>PHS050*</b> Polyphosphate crystals 0,5 kg pack (small crystals)	<b>PHS075*</b> Silicophosphate crystals 0,75 kg pack anti-scale & anti-corrosion	<b>PHS150*</b> Polyphosphate crystals 1,5 kg pack (small balls-crystals)
<b>FCPSS</b> 10" melt-blow polypropylene filter cartridge - 5 µm	<b>FCPRA-10</b> Polyphosphate crystal cartridge anti-scale conditioning	<b>FCPRA-2S*</b> Twin function cartridge 1-stage-Polypropylene melt-blown 2-stage-Polyphosphate crystals	<b>FCPNNxM</b> Multi-use sediment filter cartridges (nylon mesh) for cold water <b>available microns:</b> 20, 50, 100, 150	<b>FCPNN20M</b> 20 mic. <b>FCPNN50M</b> 50 mic. <b>FCPNN100M</b> 100 mic. <b>FCPNN150M</b> 150 mic.		

**NOTE**  
 - Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.  
 - Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.  
 - We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.  
 - Replace the filter cartridge at least every 3 or 6 months (depending on water quality and water consumption)  
**LIMITED WARRANTY:** Manufacturer warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase.  
 This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation, or cartridge change instructions.  
 We strongly recommend adding to all point of use and point of entry a Pressure Limiting Valve to guard against unwanted extreme water pressure events pressure increases, surges, and water hammer which could occur in the water pipes.  
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# FHPR34-B1-TWIN-B2

**2 Stage Anti-Scale In-Line System  
with BYPASS Valves**

## General Description:

**AQUAFILTER FHPR34-B1-TWIN-B2** two-stage Anti-Scale System With Bypass Valves.

- Bypass Valves for Easy Maintenance.
  - Salt Free - Anti-Scale System.
  - Without removing hardness or minerals
- FHPR34-B1-TWIN-B2** units cause water to act like soft water.

Now you can get many of the benefits of an anti-scale filter system with zero waste and zero electricity.

- Zero Chemicals, or Salt
- Reduces scale build up on fixtures and appliances
- Sinks, shower doors and tile will have less spotting
- Protects water heaters, dishwashers, fixtures and more
- Whiter whites and brighter colors in the laundry
- Great soft water quality throughout your whole house
- The system is equipped with a transparent housing for rapid assessment of cartridge contamination level and filter housing wrench
- All components and the anti-scale module are certified



Made in EU

- Set include:**
- 2 x 10" filtr housing
  - by-pass
  - filter cartridge 5 µm (FCPS5)
  - polyphosphate crystal cartridge anti-scale conditioning (FCPRA-10)
  - mounting bracket with screws
  - wrench
  - instruction

## Features:

- Two Stages of Filtration
- 1st stage: 10" disposable cartridge 5-micron sediment filter reduces dirt
- 2nd stage: anti-scale cartridge (polyphosphate)
- Competitive Pricing
- WARRANTY: two (2) years
- High quality
- Hand Built & Factory Tested
- All Natural Scale Reduction & Prevention System
- Easier Scale Cleanup of Tubs, Sinks & Appliances
- Prevent sediment and scale build up at Point Of Entry systems
- Ideal for family use as POE
- Low cost scale removal
- Maintenance Free -Saves \$, Time and Labor
- Easy to connect to cold water inlet
- Easy to install, No Electricity, No Drain Required
- Heavy-duty filter housings
- Full flow 3/4"ports
- Easy to install with System Specifications
- Systems ready to install
- Compact size for kitchen under counter cabinets
- Manufactured from FDA CFR-21 compliant materials
- Made in EU with High Performance Components



Scale-free potable water



Protects before scaling



Reduces detergent use



## Applications:

For 1-3 Bathroom Homes  
Anti-Scale System for whole house





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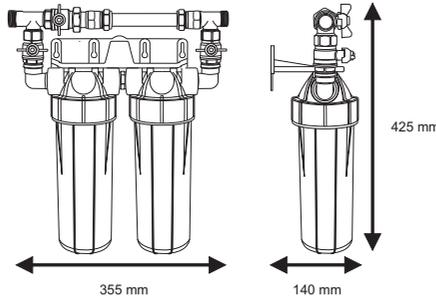
# FHPR34-B1-TWIN-B2

**2 Stage Anti-Scale In-Line System with BYPASS Valves**

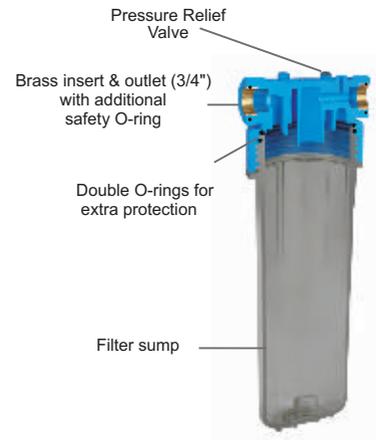


**Specifications:**

Dimensions (H x W x L): 425 x 140 x 355 (mm)  
 Thread Diameter: 3/4" FIP BSP  
 Working Temp.: 2°C - 45°C (36°F - 113°F)  
 Working pressure: 6 bar (90 PSI)  
 Clear Filter Housing (Sump) - Material: PET  
 Filter Housing Cap - Material: PP  
 Number of O-rings inside filter housing head: 2  
 Cartridge dimensions: 9 7/8" x 2 1/2" (250 mm x 65 mm)  
 Pressure Relief Valve: Yes



**Filter Housing Cross-Section**



CAT#	STAGE	COMPONENT	FUNCTION
FCPP5	1	<b>Sediment</b> String Wound Cartridge	Removes suspended impurities like particles, rust and sediment up to 5 micron.
FCPRA-10	2	<b>Anti-Scale Cartridge</b> Removal of existing hardness scale deposits (CaCO <sup>2</sup> )	Removes water borne sedimentation i.e. Scale, rust, lime, mud and silica that builds inside household equipment.

**Additional accessories**

<b>FXWR1-BL</b> Wrench	<b>NI-212-CENT-GR-AB</b> Antibacterial and Antimicrobial Filter Cartridge Centralizing Ring	<b>OR-N-880X40</b> NBR top O-ring for the housings H10B, H10C, H10K, H105 series	<b>OR-N-910X35</b> NBR bottom O-ring for the housings H10B, H10C, H10K, H105 series	<b>PHS050*</b> Polyphosphate crystals 0,5 kg pack (small crystals)	<b>PHS075*</b> Silicophosphate crystals 0,75 kg pack anti-scale & anti-corrosion	<b>PHS150*</b> Polyphosphate crystals 1,5 kg pack (small balls-crystals)
<b>FCPSS</b> 10" melt-blow polypropylene filter cartridge - 5 µm	<b>FCPRA-10</b> Polyphosphate crystal cartridge anti-scale conditioning	<b>FCPRA-2S*</b> Twin function cartridge 1-stage-Polypropylene melt-blown 2-stage-Polyphosphate crystals	<b>FCPNNxM</b> Multi-use sediment filter cartridges (nylon mesh) for cold water <b>available microns:</b> 20, 50, 100, 150	<b>FCPNN20M</b> 20 mic. <b>FCPNN50M</b> 50 mic. <b>FCPNN100M</b> 100 mic. <b>FCPNN150M</b> 150 mic.		

**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.  
 - Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.  
 - We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.  
 - Replace the filter cartridge at least every 3 or 6 months (depending on water quality and water consumption)

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## HHBB20B and HHBB10B

Whole house Big Blue® filtration systems

### General Description:

AQUAFILTER presents two in-line filtration systems. **HHBB10B - 10" Big Blue®** and **HHBB20B - 20" Big Blue®** in-line filtration systems.

Both systems consist of Big Blue® filter housings to meet all customer large-capacity filtration needs. The systems are dedicated for high flow, cold water on commercial and industrial applications. The housings are compatible with a broad range of 4 1/2" x 20" (or 4 1/2" x 9 7/8") type cartridges widely available on the market.

Filter housings consist of housing sump and filter head with 1" brass inlet/outlet inserts. Heads are equipped with a pressure relief valve (providing ability to release air bubbles collected during cartridge replacement procedure) and two pressure gauges (providing pressure drop monitoring).

This configuration enables the measurement of the pressure drop at the inlet and outlet connections. In addition, brass inlet/outlet inserts enable damage-free installation of pressure relief valve and pressure gauges. Systems include:

- metal platform
- 3 x Big Blue® type filter housings (either 10" or 20")
- 2 x pressure gauges (inlet & outlet)
- wrench

System is equipped with either 10" or 20" **Big Blue®** filter housings in blue color, which protect filter cartridges against the phenomenon of algae growth in case the system is installed in a sunny location. The new innovative design of filter housing sumps has a more rounded bottom, which significantly increases resistance to stress (based on burst tests). The housings are equipped with pressure relief valves which allow the release of residual air trapped in the filter after replacing the cartridge.

Depending on level of water contamination, system can be configured with sediment and carbon or specialty **Big Blue®** type cartridges.

### Features:

- High quality
- Competitive Pricing
- Hand Built & Factory Tested
- Equipped with antibacterial and antimicrobial filter centralizing ring
- Ideal for family use as POE
- Easy to connect to cold water inlet
- Easy to install, No Electricity, No Drain Required
- Heavy-duty filter housings
- Full flow 1" ports
- Large capacity housing suitable for high flow applications
- Pressure relief/bleed on inlet side of cap
- Compatible with most 4 1/2" x 9 7/8" (or 20") type cartridges available on the market
- Housings are NSF approved for structural integrity and material requirements
- Easy to install with System Specifications
- Manufactured from FDA CFR-21 compliant materials
- Made in EU with High Performance Components

### HHBB20B



#### Set include:

- 3 x 20" filtr housing Big Blue® type
- pressure gauge
- metal platform
- nickel extension to the pressure gauge
- wrench
- instruction
- antibacterial and antimicrobial filter centralizing ring

### HHBB10B



#### Set include:

- 3 x 10" filtr housing Big Blue® type
- pressure gauge
- metal platform
- nickel extension to the pressure gauge
- wrench
- instruction
- antibacterial and antimicrobial filter centralizing ring

To HHBB10BB and HHBB20B series systems antibacterial cartridge centering ring is added.  
**TOTALLY FREE OF CHARGE!**



Made in EU





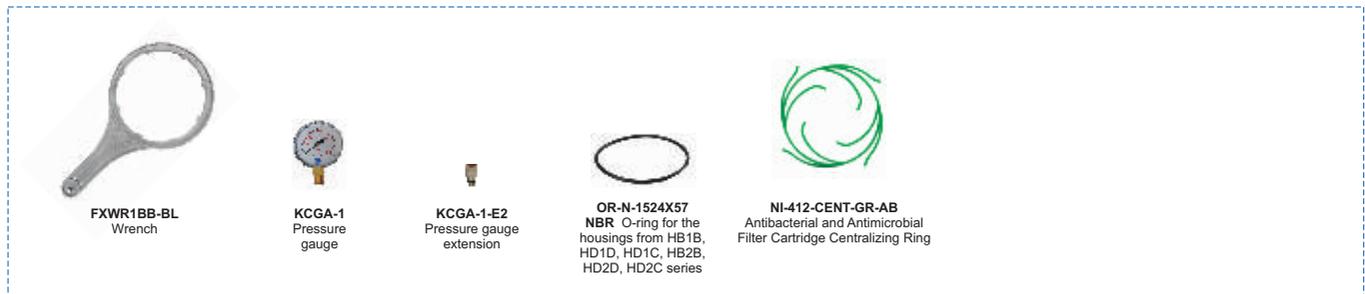
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# HHBB20B and HHBB10B

Whole house Big Blue® filtration systems

## Additional accessories

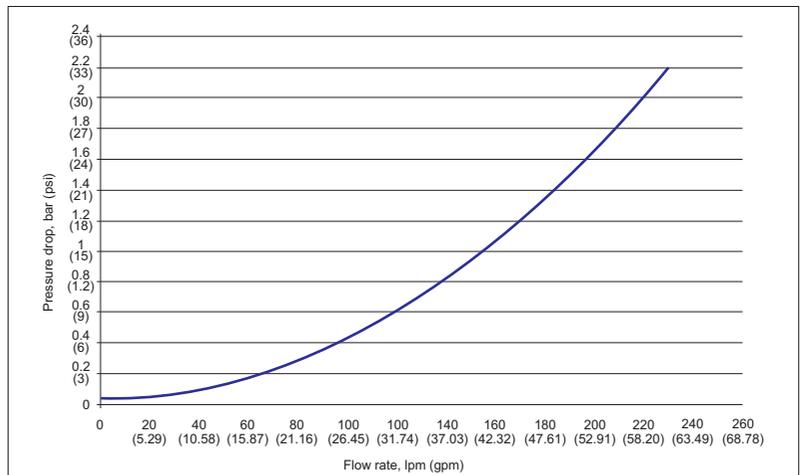


## Specifications:

**Housing:** PP  
**Cap:** PP  
**Inserts:** brass  
**Pressure relief valve:** brass  
**No. of pressure gauge:** 2  
**O-ring:** NBR  
**Thread:** 1" NPT or BSP  
**Operating Pressure:** 6 bar (90 psi)  
**Minimum Temperature:** 2°C (35°F)  
**Maximum Temperature:** 45°C (113°F)

**Dimensions (H x OD) HHBB10B:** 500 mm x 540 mm x 220 mm  
**Dimensions (H x W x L) HHBB20B:** 720 mm x 540 mm x 220 mm

**Cartridge dimensions HHBB10B:** 9 7/8" x 4 1/2" (250 mm x 115 mm)  
**Cartridge dimensions HHBB20B:** 20" x 4 1/2" (508 mm x 115 mm)



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality and water consumption)

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# AF-VT-30

**Water Softener**

## Features:

- No service required - time and volumetric control
- Advanced control unit/head
- Very efficient removal of hardness ions
- Ideal for household applications
- High output (2 m<sup>3</sup>/h)
- Easily programable
- Low operating cost
- High quality
- Corrosion resistant container
- Eliminates stains on glassware and kitchenware
- Extends the longevity of expensive equipment (washing machines, boilers etc) vulnerable to scale
- Detergent consumption reduced by 30%



To regenerate ion-exchange resin a pelletized salt is available in Aquafilter's range of products.



## General Description:

**AQUAFILTER AF-30-VT** water softener will solve all problems associated with hard water in household applications.

The device utilizes FDA-grade sodium based strongly acidic ion-exchange resin which reduces calcium and magnesium ion content in water.

Calcium and magnesium are often called "hardness minerals". Large amounts of these ions in water are the responsible for formation of the scale deposits, higher detergent consumption and stains on glassware.

In extreme cases, large amounts of calcium and magnesium can lead to glass etching. Hard water damages home appliances such as: tea kettles, dishwashers and washing machines, and increases their energy consumption.

Hard water leaves an invisible film on a skin, which blocks pores. This in turns causes chapping, itching and dryness. Scale deposits reduce flow in plumbing elements and increase energy consumption of heating elements (up to 20%).

Softened water contains almost no calcium & magnesium. It enables people to use lesser quantities of soap, shampoo, and skin care products. Moreover detergent consumption is reduced even by 30%.



Softens water



Protects expensive equipment from scale formation



Reduces detergent consumption





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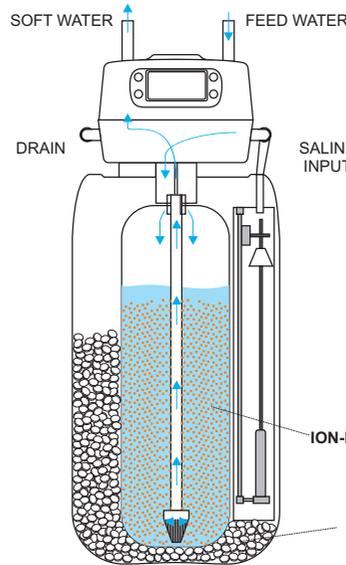
# AF-VT-30

**Water Softener**

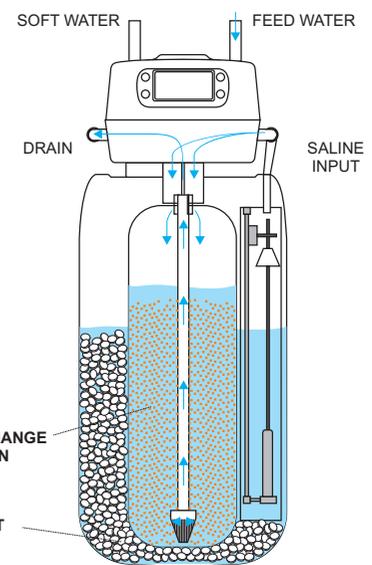
## Performance:

As water passes through the bed of ion exchange material, the hardness minerals are removed. Hard water contaminated with calcium and magnesium ions enters the exchange column. As it flows through it, the calcium and magnesium are drawn to the ion exchange resin. The resin has greater affinity for calcium and magnesium ions than for the sodium ions. Therefore calcium and magnesium are absorbed and the chemically equivalent number of sodium ions are released into the water. After a vast number of hardness ions in the water has become affixed to the softening material and most of the sodium ions have been released, the unit can no longer soften the water. It has become temporarily exhausted and requires regeneration. A Previously programmed control unit measures every liter of consumed water and calculating this parameter begins the regeneration process. This process is conducted by introducing a rich brine solution into the softener by backwashing. After the regeneration process is completed the excess brine is rinsed away and the softener can continue to

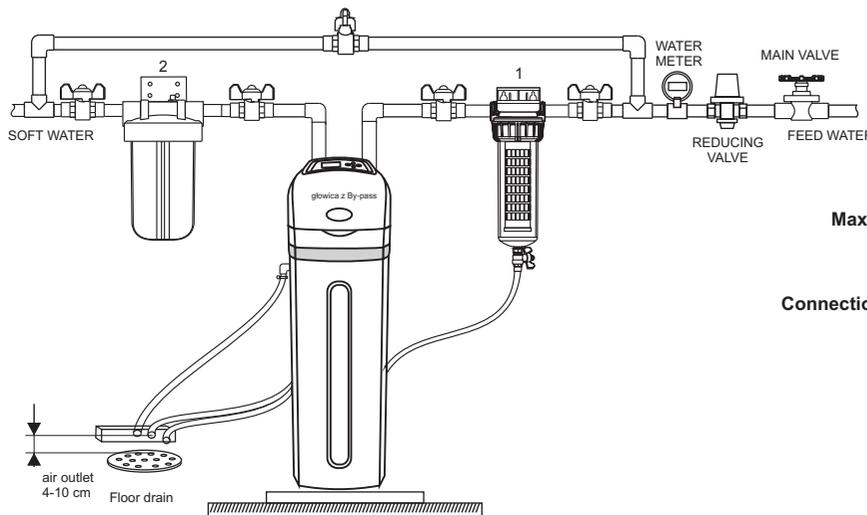
## FILTRATION



## REGENERATION



## SCHEMATIC ILLUSTRATION OF TYPICAL CONNECTION



## Specifications:

- Controller type – head:** Volume/time
- Size – H x W x L:** 1100 mm x 270 mm x 470 mm
- Tank dimensions:** 10" x 35"
- Tank volume:** 25 dm<sup>3</sup>
- Brine tank capacity (amount of salt):** 50 kg
- Maximum hydraulic flow rate:** 2 m<sup>3</sup> / h
- Maximum exchange capacity (m<sup>3</sup> x °dH):** 72
- Maximum water consumption (per regeneration):** 0.2 - 0.3 m<sup>3</sup>
- Maximum salt consumption (kg / regeneration):** 3,5
- Operating pressure:** 1,5 bar - 5 bar (22.5 psi - 75 psi)
- Operating temperature:** 5°C - 45°C (41°F - 113°F)
- Connection/power supply:** 100-240V AC 50/60Hz (12VDC 1500 mA)
- Water connection:** 3/4" MIP (BSP)

Water softener should be connected to the main water supply pipe. This way entire house or small industrial object is protected from hard water. Water before being softened should be pre-treated with sediment, iron and manganese removal media. Otherwise part of the exchange capacity will be used to exchange iron and manganese ions. Therefore the ion exchange capacity will be compromised. Detailed technical data and installation guidelines are gathered in an instruction manual.

### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance add salt and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality), add salt as need.

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# FHCTF2

## Twin 2-Stage Countertop Water Filter

### General Description:

**AQUAFILTER** offers **FHCTF2** - 2 stage system for countertop point-of-use installation.

**FHCTF2** provides a continuous supply of clean, fresh drinking water. System is equipped with two types of filter cartridges **FCPS20 (NSF approved)** and **FCCBL**.

**FCPS20** removes sediments such as sand, silt, rust, suspended solids down to 20 µm. **FCCBL** (carbon block) removes free chlorine removal, certain pesticides and organic compounds thus greatly improving taste and odour of filtered water.

**FHCTF2** is one of the simplest and most economic solutions designed to improve the quality of potable water. This filter is easy to install and use. It can be placed on a kitchen countertop and connected directly to kitchen faucet.

In case of non-standardized kitchen faucet thread, transition adapters **FXFVP** and **FXFTP** are available.

### Features:

- High quality
- Competitive pricing
- Fast product delivery
- A wide range of interchangeable water filter cartridge types
- Made in EU
- Compact, undercounter, and apartment size
- Manufactured from FDA CFR-21 compliant materials
- Two Stages of Filtration
- Easy to install with System Specifications
- Filter equipt with faucet and all installation accessories
- Improved taste and odour of water
- Designed for enhanced dirt-holding capacity.
- Great-tasting water for drinking and cooking.
- User friendly
- Easy to install
- Remove chlorine
- Remove organic compounds

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household
- Recommended for Families



Made in EU





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# FHCTF2

## Twin 2-Stage Countertop Water Filter



### The package contains:

- Melt-blown polypropylene cartridge with NSF certificate - 20 µm (FCPS20)
- Carbon block (FCCBL)
- Faucet
- Water connector to faucet
- 1/4 inch Tubing for System Connection (FDA-approval)
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

### Specification:

**Dimensions (H x W x L):** 260 mm x 130 mm x 330 mm  
**Connection adapter:** faucet  
**Working Temp.:** 2°C - 45°C (35°F - 113°F)

CATALOG#	STAGE	COMPONENT	FUNCTION
FCPS20	1	<b>Sediment Pre-Filter</b> Spun-bounded polypropylene	20 micron sediment filter traps dirt, sediment, rust and other particulate matter.
FCCBL	2	<b>Carbon Cartridge Pre-Filter</b> Extruded activated carbon	Carbon block filter is used to reduce chlorine, color, odor and other organic impurities

### Additional accessories



### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
  - Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
  - We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
  - Replace the filter cartridge at least every 3 or 6 months (depending on water quality).
- LIMITED WARRANTY:** AQUAFILTER warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation or cartridge change instructions.

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# FHCTF

## 2-Stage Countertop Water Filter

### General Description:

**AQUAFILTER** offers **FHCTF** - kitchen filter for countertop point-of-use installation. **FHCTF** provides a continuous supply of clean, fresh drinking water. System include **FCCA-STO** filter cartridge, which removes sediments such as sand, silt, rust, suspended solids as well as free chlorine, certain pesticides and organic compounds. **Utilizing NSF approved coconut shell activated carbon greatly improves taste and odour of filtered water.** **FHCTF** is one of the simplest and most economic solutions designed to improve the quality of potable water. This filter is easy to install and use. It can be placed on a kitchen countertop and connected directly to kitchen faucet.

In case of non-standardized kitchen faucet thread, transition adapters **FXFVP** and **FXFTP** are available.

Depending on water quality, system can be configured by selecting appropriate filter cartridges (STO-series) to meet customers demands.

### Features:

- High quality
- Competitive pricing
- Fast product delivery
- A wide range of interchangeable water filter cartridge types
- Made in EU
- Compact, undercounter, and apartment size
- Manufactured from FDA CFR-21 compliant materials
- Two Stages of Filtration
- Easy to install with System Specifications
- Filter equipt with faucet and all installation accessories
- Improved taste and odour of water
- Designed for enhanced dirt-holding capacity
- Great-tasting water for drinking and cooking
- Remove chlorine
- Remove organic compounds
- User friendly

### Recomendations for Use:

- Point-of-Use (POU) systems can filter out bad tastes, colors or odors, which pose no health risk but still affect the water quality
- This system will improve the flavor of water used for drinking and cooking
- Perfect for almost any household
- Recommended for Families



Made in EU





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# FHCTF

## 2-Stage Countertop Water Filter



**The package contains:**

- FCCA-STO type cartridge ½ melt-blown polypropylene cartridge with NSF certificate and ½ GAC activated carbon
- Faucet
- Water connector (to faucet)
- 1/4 inch Tubing for System Connection (FDA-approval)
- Completely Assembled
- Manual instructions
- Color box
- 100% Factory Tested and Sterilized Ready for Installation

**Specifications:**

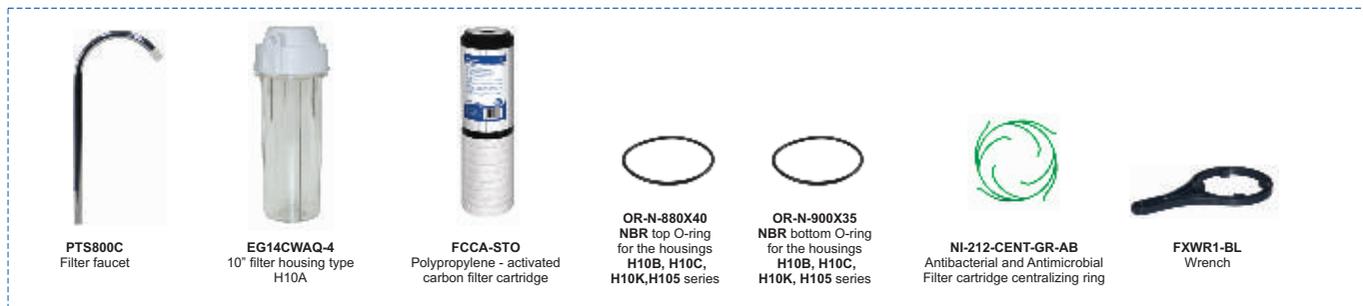
**Dimensions (Hight x Diameter):** 330 x 115 (mm)

**Connection adapter:** to faucet

**Working Temp.:** 2°C - 45°C (35°F - 113°F)

CATALOG#	STAGE	COMPONENT	FUNCTION
FCCA-STO	1	<b>Sediment Pre-Filter and coconut shell carbon media</b> Spun-bounded polypropylene and activated carbon	<b>Stage 1:</b> 20 micron sediment filter traps dirt, sediment, rust and other particulate matter. <b>Stage 2:</b> Activated carbon, reduce chlorine, color, odor and other organic impurities

**Additional accessories**



**NOTE**

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 3 or 6 months (depending on water quality).

**LIMITED WARRANTY:** AQUAFILTER warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of two (2) years from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation or cartridge change instructions.

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# FH2000\_K

## Faucet Filter

### General Description:

**AQUAFILTER FH2000\_K** is a modern faucet filter. It is equipped with **FC2001\_S** cartridge containing coconut shell activated carbon. It removes sediment particles, free chlorine, organic substances (eg. pesticides), improves taste and quality of water and eliminates bad odor. **FH2000\_K** faucet filter produce healthier and great-tasting water. It can be installed directly on a kitchen faucet, due to its compatibility with most faucets commercially available. Installation is quick and simple. It does not require any special tools or plumbing knowledge. **AQUAFILTER FH2000\_K** is a convenient solution for people who drink more filtered water than a pitcher or dispenser water filter can provide.

### Features:

- High quality
- Competitive price
- Fast product delivery
- Manufactured from FDA CFR-21 compliant materials
- Easy Maintenance
- Easy to install with System Specifications
- Removes sediments
- Removes free chlorine
- Removes organic compounds
- Improves taste and odour of filtered water

### Specifications:

**Dimensions (H x W x L):** 66 mm x 102 mm x 113 mm  
**Working Temp.:** 2°C - 45°C (35° F - 113°F)

#### NOTE

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Water filtration systems can help reduce the presence of contaminants. In addition, some water filtration systems can help reduce the presence of microorganisms or other contaminants with potential health effects.
- We strongly recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly.
- Replace the filter cartridge at least every 2 or 3 months (depending on water quality).

**LIMITED WARRANTY:** AQUAFILTER warrants that this product is free from defects in materials and workmanship. This warranty, together with any and all warranties implied by law, shall be limited to a period of one (1) year from the date of original purchase. This limited warranty does not apply to failures that result from abuse, misuse, alteration or failure to properly comply with installation or cartridge change instructions.

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### Cartridge for FH2000\_K



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# FC2001\_S

**Filter cartridge for FH2000\_K faucet filter, filled with activated coconut shell carbon**

## General Description:

**AQUAFILTER FH2001\_S** is a filter cartridge designed for **FH2000\_K** faucet filter. The cartridge is filled with NSF approved coconut shell activated carbon which provides an efficient removal of contaminants from potable water. GAC-type cartridges are designed in a way where water flows from bottom to top ensures a long contact time, allowing for maximum adsorption and treatment. Using a clean, water-washed NSF approved coconut shell activated carbon with a large mesh size, this granular range is primarily a chlorine, taste and odour reduction cartridge with the advantage of a post-filter pad to prevent carbon from being washed out and to avoid blockage if high particulate is present. According to internal laboratory studies cartridge removes up to 99% of free chlorine, 85% of certain pesticides, solvents, aromatic hydrocarbons, fenol, benzen and other organic compounds. A post-filter preventing both carbon particles and sediment from being washed out.



FC2001\_S

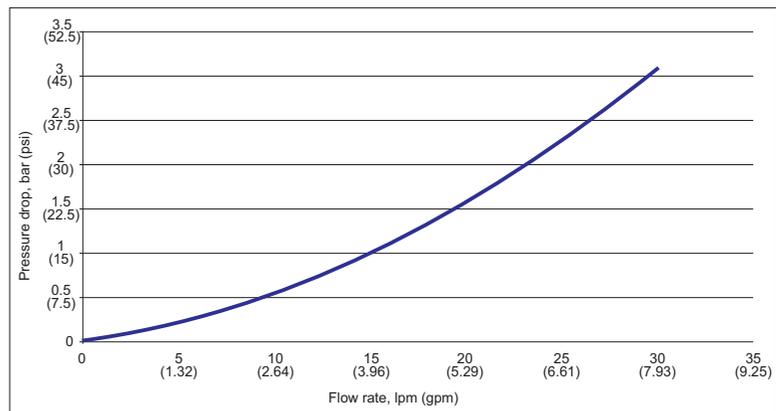
## Features:

- High quality
- Competitive Pricing
- Fast product delivery
- 99% removal of free chlorine
- 85% removal of certain pesticides
- Organic compounds removal
- Phenol, & benzene removal
- Improves taste and odour of water
- Contain high quality filtration bed (coconut shell carbon)
- Equipped with end filter preventing particulates of filtration media from being washed out

## Specifications:

**Working Temperature:** 2°C - 45°C (35° F - 113°F)  
**Filter Life\*:** 2 - 3 months

\* filter cartridge lifetime depends on contamination level of portable water.



**IMPORTANT NOTICE:** Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Cartridges are designed for filtration with cold potable water. We recommend regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform properly. Improper installation and maintenance may result in property damage due to water leakage.

**Limited Warranty:** AQUAFILTER warrants that this product is free from defects in materials and workmanship.

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# APPENDIX

**FLOW RATE / DIRT LOADING CHART**

**MESH TO MICRON CONVERSION CHART**

**MICROMETER COMPARISONS**

**WEIGHT AND MESURES**

**WATER TREATMENT TABLE**

**GLOSSARY OF FILTRATION TERMINOLOGY**

**TERMS AND CONDITIONS OF SALE**

**PRODUCT RETURN POLICY (RMA)**

**NOTES**



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### FLOW RATE / DIRT LOADING CHART

FLOW RATE Liters/Minute	DIRT LAOD (ppm)	% BY WEIGHT	TOTAL DIRT LOAD IN KG IN 24 HOUR PERIOD
95	1	0.0001	0.14
	10	0.001	1.36
	100	0.01	13.61
	1000	0.1	136.05
190	1	0.0001	0.28
	10	0.001	2.72
	100	0.01	27.21
	1000	0.1	272.10
380	1	0.0001	0.55
	10	0.001	5.44
	100	0.01	54.42
	1000	0.1	544.20
950	1	0.0001	1.36
	10	0.001	13.61
	100	0.01	136.05
	1000	0.1	1,361.00
1900	1	0.0001	2.72
	10	0.001	27.21
	100	0.01	272.10
	1000	0.1	2,721.00
3785	1	0.0001	5.44
	10	0.001	54.42
	100	0.01	544.20
	1000	0.1	5,443.00

NOTE: Maximum dirt concentration for effective cartridge filter media applications should not exceed 100 ppm.

### MESH TO MICRON CONVERSION CHART

U.S. MESH	INCHES	MICRONS	MILLIMETERS
3	0.265	6730	6.73
4	0.187	4760	4.76
5	0.157	4000	4
6	0.132	3360	3.36
7	0.111	2830	2.83
8	0.0937	2380	2.38
10	0.0787	2000	2
12	0.0661	1680	1.68
14	0.0555	1410	1.41
16	0.0469	1190	1.19
18	0.0394	1000	1
20	0.0331	841	0.841
25	0.028	707	0.707
30	0.0232	595	0.595
35	0.0197	500	0.5
40	0.0165	400	0.4
45	0.0138	354	0.354
50	0.0117	297	0.297
60	0.0098	250	0.25
70	0.0083	210	0.21
80	0.007	177	0.177
100	0.0059	149	0.149
120	0.0049	125	0.125
140	0.0041	105	0.105
170	0.0035	88	0.088
200	0.0029	74	0.074
230	0.0024	63	0.063
270	0.0021	53	0.053
325	0.0017	44	0.044
400	0.0015	37	0.037
550	0.00099	25	0.025
625	0.00079	20	0.020
1,250	0.000394	10	0.010
1,750	0.000315	8	0.008
2,500	0.00197	5	0.005
5,000	0.000099	2.5	0.0025
12,000	0.0000394	1	0.001

### MICROMETER COMPARISONS

SUBSTANCE	(MICRON SIZE)
Table Salt	100
Human Hair (average dia)	50-70
White Blood Cell	25
Talcum Powder	10
Cocoa	8-10
Red Blood Cell	8
Bacteria (cocci)	2

## WEIGHTS AND MEASURES

TO CONVERT	MULTIPLY BY	TO OBTAIN
atmospheres	33.9	ft of water (at 4°C)
atmospheres	29.92	in mercury (at 0°C)
barrels (US liquid)	31.5	gallons
barrels (oil)	42	gallons (oil)
bars	0.9869	atmospheres
bars	14.5	pounds/sq in
centimeters	0.03281	feet
centimeters	0.3937	inches
centimeters	0.00001	kilometers
centimeters	0.01	meters
centimeters	0.01094	yards
centimeters	10,000	microns
cubic centimeters	0.00003531	cubic feet
cubic centimeters	0.06102	cubic inches
cubic centimeters	0.000001	cubic meters
cubic centimeters	0.001	liters
cubic centimeters	0.002113	pints (US liquid)
cubic centimeters	0.001057	quarts (US liquid)
cubic feet	28,320	cubic centimeters
cubic feet	1,728	cubic inches
cubic feet	0.02832	cubic meters
cubic feet	0.03704	cubic yards
cubic feet	7.48052	gallons (US liquid)
cubic feet	28.32	liters
cubic feet	59.84	pints (US liquid)
cubic feet	29.92	quarts (US liquid)
cubic feet/min	62.43	pounds water/min
cubic feet/min	1.698	cubic meters/hr
cubic feet/sec	448.831	gallons/min
cubic inches	16.39	cubic centimeters
cubic inches	0.0005787	cubic feet
cubic inches	0.00001639	cubic meters
cubic inches	0.00002143	cubic yards
cubic inches	0.004329	gallons
cubic inches	0.01639	liters
cubic meters	35.31	cubic feet
cubic meters	61,023	cubic inches
cubic meters	264.2	gallons (US liquid)
cubic meters	1000	liters
cubic meters/hour	4.4	gallons (US)/min
cubic meters/hour	0.588	cubic feet/min
feet	30.48	centimeters
feet	0.0003048	kilometers
feet	0.3048	meters
feet	304.8	millimeters
feet of water	0.0295	atmospheres
feet of water	0.8826	inches of mercury
feet of water	62.43	pounds/sq ft
feet of water	0.4335	pounds/sq in
feet/minute	0.01667	feet/second
gallons	3.785	cubic centimeters
gallons	0.1337	cubic feet
gallons	231	cubic inches
gallons	3.785	liters
gallons (liq br imp)	1.20095	gallons (US liquid)
gallons (US)	0.83267	gallons (Imp)
gallons of water	8.337	pounds of water
gallons/min	0.002228	cubic feet/sec
gallons/min	0.06308	liters/sec
gallons/min	8.0208	cubic feet/hr
grams	0.001	kilograms
grams	0.002205	pounds

TO CONVERT	MULTIPLY BY	TO OBTAIN
inches	2.54	centimeters
inches	0.0254	meters
inches	25.4	millimeters
inches of mercury	0.03342	atmospheres
inches of mercury	1.133	feet of water
kilograms	2.2046	pounds
kilograms	0.009842	tons (long)
kilograms	0.001102	tons (short)
kilograms/sq cm	2.048	pounds/sq ft
kilograms/sq cm	14.22	pounds/sq in
kilograms/sq meter	0.00009678	atmospheres
kilograms/sq meter	0.00009807	bars
kilograms/sq meter	0.003281	feet of water
kilograms/sq meter	0.002896	inches of mercury
kilograms/sq meter	0.2048	pounds/sq ft
kilograms/sq meter	0.001422	pounds/sq in
liters	0.2642	gallons (US liquid)
liters	2.113	pints (US liquid)
liters	1.057	quarts (US liquid)
liters/min	0.0005886	cubic ft/sec
liters/min	0.004403	gallons/sec
liters/hour	0.004403	gallons (US)/min
meters	3.281	feet
meters	39.37	inches
meters	0.001	kilometers
meters/min	3.281	feet/min
meters/min	0.05468	feet/sec
microns	0.000001	meters
mils	0.00254	centimeters
mils	0.000083333	feet
mils	0.001	inches
ounces	28.349	grams
ounces	0.0625	pounds
ounces (fluid)	1.805	cubic inches
ounces (fluid)	0.02957	liters
ounces/sq in	0.0625	pounds/sq in
pints (liquid)	0.125	gallons
pints (liquid)	0.4732	liters
pints (liquid)	0.5	quarts (liquid)
pounds	453.59	grams
pounds	16	ounces
pounds/sq ft	0.0004725	atmospheres
pounds/sq ft	0.01602	feet of water
pounds/sq ft	0.01414	inches of mercury
pounds/sq in	0.06804	atmospheres
pounds/sq in	2.307	feet of water
pounds/sq in	2.036	inches of mercury
pounds/sq in	0.0145	kilopascals (kPa)
quarts (liquid)	0.03342	cubic feet
quarts (liquid)	57.75	cubic inches
quarts (liquid)	0.0009464	cubic meters
quarts (liquid)	0.25	gallons
quarts (liquid)	0.9463	liters
square centimeters	0.001076	square feet
square centimeters	0.155	square inches
square centimeters	0.0001	square meters
square feet	144	square inches
square feet	0.0929	square meters
square inches	0.006944	square feet
square inches	0.0007716	square yards
square meters	10.76	square feet
square meters	155	square inches



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## WATER TREATMENT TABLE

Inorganic chemicals	MCLG1 (mg/L) <sup>4</sup>	MCL <sup>2</sup> or TT <sup>3</sup> (mg/L)	Potential Health Effects from Water Ingestion	Sources of Contaminant in Drinking Water	Treatment Methods
<b>Antimony</b>	0.006	0.006	Higher blood cholesterol; lower blood glucose	Petroleum refinery discharge; solder; electronics; fire retardants; ceramics	Coagulation/filtration Activated carbon* Reverse osmosis Distillation
<b>Arsenic</b>	None <sup>5</sup>	0,005 (P)	Skin damage; circulatory system problems; higher cancer risk	Discharge from semiconductor manufacture; petroleum refining; wood preservatives; herbicides; animal feed additives; erosion from natural deposits	As+3: Chemical oxidation to convert to As+5 Reverse osmosis (w/prior chlorination) Distillation As+5:
<b>Asbestos (fiber&gt;10µm)</b>	7 million fibers/L	7 MFL	Higher risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; natural deposit erosion	Corrosion control to reduce leaching from distribution pipes Coagulation/filtration Submicron filtration Reverse osmosis Ultrafiltration Distillation
<b>Barium</b>	2	2	Higher blood pressure	Drilling waste discharge; metal refineries; natural deposit erosion	Cation exchange Reverse osmosis Distillation Electrolysis
<b>Beryllium</b>	0.004	0.004	Intestinal lesions	Discharge from metals refineries and coal-burning factories; and electrical, aerospace and defense firms	Coagulation/filtration Activated carbon* Lime softening Activated alumina Cation exchange Reverse osmosis Distillation Electrolysis
<b>Cadmium</b>	0.005	0.005	Kidney damage	Corrosion of galvanized pipes; natural deposits erosion; metal refineries discharge; runoff from waste batteries and paints	Coagulation/ filtration Activated carbon* Lime softening Cation exchange Reverse osmosis Distillation Electrolysis
<b>Chromium (total)</b>	0.1	0.1	Some people who use water with chromium well in excess of MCL over many years could experience allergic dermatitis	Steel and pulp mill discharge; metal finishing industry discharges; natural deposits erosion	Cr+3: Coagulation/filtration Lime softening Cation exchange Reverse osmosis Distillation Cr+5: Anion exchange Reverse osmosis Distillation Organic complexes:Act
<b>Copper</b>	1.3	1.3 = action level; TT6	Short exposure: gastrointestinal distress; Long term exposure: Wilson's disease sufferers should consult personal doctors if above action level	Household plumbing corrosion; natural deposits erosion; leaching from wood preservatives	Cation exchange (20-90%) Reverse osmosis Distillation Electrolysis
<b>Cyanide (as free cyanide)</b>	0.2	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; plastic and fertilizer factories	Chemical oxidation/ disinfection (pH> 10) Anion exchange Reverse osmosis Distillation Electrolysis
<b>Fluoride</b>	4	4	Bone disease (pain and tenderness); children may get mottled teeth	Water additive which promotes strong teeth; natural deposits; discharge from fertilizer and aluminum factories	Activated alumina Bone char Reverse osmosis Distillation Electrolysis
<b>Lead</b>	Zero	0.015 = action level; TT6	Infants/ children: physical/mental developmental delays; Adults; high blood pressure; kidney problems	Household plumbing corrosion; runoff from waste batteries; natural deposits erosion	Cation exchange (20-90%) Coagulation/filtration Activated carbon* Lime softening Reverse osmosis Distillation Electrolysis
<b>Inorganic Mercury</b>	0.002	0.002	Kidney damage	Natural deposits erosion; refinery/factory discharge; landfill/ cropland runoff; fluorescent lamps	HG+2: Activated carbon* Lime softening Cation exchange (20-90%) Reverse osmosis Distillation HgC13-1: Anion exchange Reverse osmosis Distillation Organic complexes: Activated carbon
<b>Nickel</b>	0.1	0.1	Kidney damage, respiratory difficulties, higher cancer risk	Natural deposits erosion, refinery/factory discharge	NH+2: Cation exchange Lime softening Reverse osmosis Distillation
<b>Nitrate (as N)</b>	10	10	Infants under 6 months: blue baby syndrome - life threatening without immediate medical attention; symptom: baby looks blue, shortness of breath	Runoff from fertilizer use; leaching from septic tanks, sewage; natural deposits erosion	Anion exchange Reverse osmosis (pressure sensitive) Distillation Electrolysis
<b>Nitrite (as N)</b>	1	1	Infants under 6 months: blue baby syndrome - life threatening without immediate medical attention; symptom: Baby looks blue, shortness of breath	Runoff from fertilizer use; leaching from septic tanks, sewage; natural deposits erosion	Chemical oxidation To convert to nitrate then: Anion exchange Reverse osmosis (pressure sensitive) Distillation
<b>Thallium</b>	0,0005	0,0002	Hair loss; changes in blood; kidney intestine or liver problems	Leaching from ore-processing sites; discharge from electronics, glass pharmaceutical companies	Cation exchange Activated alumina Reverse osmosis Distillation



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## WATER TREATMENT TABLE

Organic Chemicals	MCLG1 (mg/L) <sup>4</sup>	MCL <sup>2</sup> or TT <sup>3</sup> (mg/L)	Potential Health Effects from Water Ingestion	Sources of Contaminant in Drinking Water	Treatment Methods
Acrylamide	Zero	TT <sup>6</sup>	Nervous system or blood problems; higher cancer risk	Added to water in sewage/wastewater treatment	Control of water treatment chemicals and surfaces in contact with water
Alachlor	Zero	0.002	Eye, liver, kidney or spleen problems; higher cancer risk	Runoff from herbicide used on row crops	Activated carbon
Atrazine	0.003	0.003	Cardiovascular system problems; reproductive difficulties	Runoff from herbicide used on row crops	Activated carbon
Benzene	Zero	0.005	Anemia; lower blood platelets; higher cancer risk	Factory discharges; leaching from gas storage tanks and landfills	Activated carbon Aeration
Benzo(a)pyrene (PAH)	Zero	0.0002	Reproductive difficulties; higher cancer risk	Leaching from linings of water storage tanks, distribution lines	Activated carbon
Carbofuran	0.04	0.04	Blood or nervous system problems; reproductive difficulties	Leaching of soil fumigant used on rice and alfalfa	Activated carbon
Carbon tetrachloride	Zero	0.005	Liver problems; higher cancer risk	Discharge from chemical plants and other industrial activities	Aeration
Chlordane	Zero	0.002	Liver or nervous system problems; higher cancer risk	Residue of banned termiticide	Activated carbon
2,4-D	0.07	0.07	Kidney, liver or adrenal gland problems	Runoff from herbicide used on row crops	Activated carbon
1,2-Dibromo-3-chloro-propane (DBCP)	Zero	0.0002	Reproductive difficulties; higher cancer risk	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, orchards	Activated carbon Aeration
o-Dichlorobenzene	0.6	0.6	Liver, kidney or circulatory system problems	Discharge from industrial chemical factories	Activated carbon Aeration
p-Dichlorobenzene	0.075	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories	Activated carbon Aeration
2,4,5-TP (Silvex)	0.05	0.05	Liver problems	Residue of banned herbicide	Activated carbon
1,2,4-Trichlorobenzene	0.07	0.07	Changes in adrenal glands	Discharge from textile finishing factories	Activated carbon Aeration
1,1,1- Trichloroethane	0.2	0.2	Liver, nervous system and circulatory problems	Discharge from metal degreasing sites and other factories	Activated carbon Aeration
1,1, 2-Trichloroethane	0.003	0.005	Liver, kidney or immune system problems	Discharge from industrial chemical factories	Activated carbon Aeration
Trichloroethylene	Zero	0.005	Liver problems; higher cancer risk	Discharge from petroleum refineries	Activated carbon Aeration
Vinyl chloride	Zero	0.002	Higher cancer risk	Leaching from PVC pipes; discharge of plastic factories	Aeration
Xylenes (total)	10	10	Nervous system damage	Petroleum and chemical factory discharges	Activated carbon Aeration
Radionuclides	MCLG1 (mg/L) <sup>4</sup>	MCL <sup>2</sup> or TT <sup>3</sup> (mg/L)	Potential Health Effects from Water Ingestion	Sources of Contaminant in Drinking Water	Treatment Methods
Beta particles and photon emitters	None <sup>5</sup>	4 mrems per year	Higher cancer risk	Decay of natural and man-made deposits	Ion Exchange (mixed bed) Reverse osmosis Distillation Electrolysis
Gross alpha particle activity	None <sup>5</sup>	15pCi/L <sup>8</sup>	Higher cancer risk	Decay of natural and man-made deposits	Treatment method depends on specific radionuclide-e.g., radium, radon or uranium, see below
Radium 226 & Radium 228 (combined)	None <sup>5</sup>	5pCi/L	Higher cancer risk	Decay of natural and man-made deposits	Cation exchange Reverse osmosis Distillation
Radon	0	300 pCi/L (P)	Higher cancer risk	Decay of natural and man-made deposits	Electrolysis
Micro-organisms	MCLG1 (mg/L) <sup>4</sup>	MCL <sup>2</sup> or TT <sup>3</sup> (mg/L)	Potential Health Effects from Water Ingestion	Sources of Contaminant in Drinking Water	Treatment Methods
Giardia lamblia	0	TT <sup>9</sup>	Giardiasis, a gastrointestinal disease	Human and animal fecal waste	Turbidity reduction to 0,3 NTU and then: Chemical Oxidation/Disinfection Chlorination Ozone Iodine Absolute Filtration (<5 micron-sized particles) Distillation
Heterotrophic Plate Count (HPC)	N/A	TT <sup>9</sup>	HPC has no health effects, but can indicate how effective treatment is at controlling microorganisms	N/A	Turbidity reduction to 0,3 NTU and then: Chemical Oxidation/ Disinfection Chlorination Ozone Iodine Absolute Filtration (<5 micron-sized particles) Distillation
Legionella	0	TT <sup>9</sup>	HPC Legionnaire's Disease, more commonly known as pneumonia	Found naturally in water; multiplies in heating systems	Turbidity reduction to 0,3 NTU and then: Chemical Oxidation/ Disinfection Chlorination Ozone Iodine Absolute Filtration (<5 micron-sized particles) Distillation
Total Coliforms (including fecal coliform and E. coli)	0	5% <sup>10</sup>	Used as indicator other potentially harmful bacteria may be present <sup>11</sup>	Human and animal fecal waste	Turbidity reduction to 0,3 NTU and then: Chemical Oxidation/Disinfection Chlorination Ozone Iodine (e.g., polyiodide resins) Submicron (absolute) filtration (<0,45 micron) Ultraviolet irradiation Distillation
Turbidity	N/A	TT <sup>9</sup> 0,3 NTU	Turbidity has no health effects but can interfere with disinfection and provide a medium for microbial growth. It may indicate presence of microbes.	Soil runoff	Coagulation/Filtration Submicron filtration Ultrafiltration Reverse Osmosis Cartridge filtration (matched to turbidity particle size) Distillation
1,2-Dichloroethane	0	0.005	Higher cancer risk	Industrial chemical factory discharges	Aeration

## WATER TREATMENT TABLE

Micro-organisms	MCLG1 (mg/L) <sup>4</sup>	MCL <sup>2</sup> or TT <sup>3</sup> (mg/L)	Potential Health Effects from Water Ingestion	Sources of Contaminant in Drinking Water	Treatment Methods
1,1-Dichloroethylene	0.007	0.007	Liver problems	Industrial chemical factory discharges	Activated carbon Aeration
cis-1,2-Dichloroethylene	0.07	0.07	Liver problems	Industrial chemical factory discharges	Activated carbon Aeration
Trans-1,2-Dichloroethylene	0.1	0.1	Liver problems	Industrial chemical factory changes	Activated carbon Aeration
Dichloromethane	Zero	0.005	Liver problems; higher cancer risk	Pharmaceutical and chemical factory discharges	Aeration
1,2-Dichloropropane	Zero	0.005	Higher cancer risk	Industrial chemical factory discharges	Activated carbon Aeration
Di(2-ethylhexyl)adipate	0.4	0.4	General toxic effects or reproductive difficulties	Leaching from PVC plumbing systems; chemical factory discharges	Activated carbon Aeration
Di(2-ethylhexyl)phthalate (PAE)	Zero	0.006	Reproductive difficulties; liver problems; higher cancer risk	Discharge from rubber and chemical factories	Activated carbon
Dinoseb	0.007	0.007	Reproductive difficulties	Runoff of herbicide used on soybeans and vegetables	Activated carbon
Dioxin (2,3,7,8-TCDD)	Zero	0.00000003	Reproductive difficulties; higher cancer risk	Discharges from chemical factory; emissions from waste incineration, other combustion	Activated carbon
Diquat	0.02	0.02	Cataracts	Runoff from herbicide use	Activated carbon
Endothall	0.1	0.1	Stomach and intestinal problems	Runoff from herbicide use	Activated carbon
Endrin	0.002	0.002	Nervous system effects	Residue of banned insecticide	Activated carbon
Epichlorohydrin	Zero	TT7	Stomach problems; reproductive difficulties; higher cancer risk	Industrial chemical factory discharge; added to water during treatment	Control of water treatment chemicals and surfaces in contact with water
Ethylbenzene	0.7	0.7	Liver or kidney problems	Discharge from petroleum refineries	Activated carbon
Ethylene dibromide (EDB)	Zero	0.00005	Stomach problems; reproductive difficulties; higher cancer risk	Discharge from petroleum refineries	Activated carbon Aeration
Glyphosate	0.7	0.7	Kidney problems; Reproductive difficulties	Runoff from herbicide use	Oxidation Activated carbon
Heptachlor	Zero	0.0004	Liver damage; higher cancer risk	Residue of banned termiticide	Activated carbon
Heptachlor epoxide	Zero	0.0002	Liver damage; higher cancer risk	Breakdown of heptachlor	Activated carbon
Hexachlorobenzene	Zero	0.001	Liver or kidney problems; reproductive difficulties; higher cancer risk	Discharge from metal refineries and agricultural chemical factories	Activated carbon
Hexachlorocyclopenta-diene	0.05	0.05	Kidney or stomach problems	Discharge from chemical factories	Activated carbon Aeration
Lindane	0.0002	0.0002	Liver or kidney problems	Runoff/leaching from insecticide used on cattle, lumber, gardens	Activated carbon
Methoxychlor	0.04	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock	Activated carbon
Oxamyl (Vydate)	0.2	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes and tomatoes	Activated carbon
Pentachlorophenol	Zero	0.001	Liver or kidney problems; higher cancer risk	Discharge from wood preserving factories	Activated carbon
Picloram	0.5	0.5	Liver problems	Herbicide runoff	Activated carbon
Polychlorinated Biphenyls (PCBs)	Zero	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; higher cancer risk	Runoff from landfills; discharge from waste chemicals	Activated carbon
Simazine	0.004	0.004	Blood problems	Herbicide runoff	Activated carbon

**NOTE:**

*Treatment Technique — An enforceable procedure or level of technical performance which public water systems must follow to ensure control of a contaminant.*

*Lead and copper are regulated in a Treatment Technique which requires systems to take tap water samples at sites with lead pipes or copper pipes that have lead solder and/or are served by lead service lines. The action level, which triggers water systems into taking treatment steps, if exceeded in more than 10% of samples, for copper is 1,3 mg/L and for lead is 0,015 mg/L.*

*Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human/animal wastes. Microbes in these wastes can cause diarrhea, cramps, nausea, headaches or other symptoms.*

*Source: USEPA (Special thanks to Tom Sorg, Kim Fox, and Tom Speth) and Cartwright Consulting*



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## Glossary Of Filtration Terminology

This section presents definitions for some key words and phrases that are generally associated with filtration processes.

**Absorption:** The process of substance actually penetrating into the structure of another substance. This is different from adsorption in which one substance adheres to the surface of another.

**Abrasion Resistance:** Ability of a fiber or fabric to withstand surface wear.

**Absolute:** A degree of filtration that guarantees 100% removal of suspended solids over a specified size found in the filtrate.

**Absolute Pressure:** The pressure above an absolute vacuum. One atmosphere (14.70 psi) greater than gauge pressure. Symbolized as psia when the pressure is expressed in psi units.

**Absolute Rating:** Particle size in micrometers removed at a given efficiency under a manufacturer's defined test condition. Also an arbitrary term assigned by a manufacturer. Implied is 100%, but more often defined as 98.67%, 99%, 99.9% and 99.99%, according to the manufacturer. Aquafiliter defines absolute as 99.98% removal (Beta = 5000) as determined by particle counting methods.

**Acid:** A compound resulting in a pH less than 7 when in aqueous solution, a molecule that can give up a proton to a base, accept an unshared pair of electrons from a base or react with a base to form a salt, a substance that has more free hydrogen ions, H<sup>+</sup>, than hydroxyl ions, OH<sup>-</sup>.

**Acidity:** Having the properties of an acid; a pH less than 7.

**Acidic:** The condition of water or soil which contains a sufficient amount of acid substances to lower the pH below 7.0.

**Activated Alumina:** Activated Alumina is a form of aluminum oxide used as a desiccant (dryer) for gases. It is also used as a carrier for potassium permanganate when the latter is used as a chemisorber.

**Activated Carbon:** A water treatment medium found in block, granulated, or powdered form which is produced by heating carbonaceous substances, bituminous coal or cellulose-based substances such as wood or coconut shell, to 700°C or less in the absence of air to form a carbonized char and then activating (oxidizing) at 800°C to 1000°C with oxidizing gases such as steam and carbon dioxide (oxygen is never used as the oxidizing gas because its reaction with the carbon surface is too rapid and violent) to form pores, thus creating a highly porous adsorbent material. Activated carbon is commonly used for dechlorination and for reducing trace and soluble materials such as organic chemicals and radon from water.

**Activated Carbon Block Filter:** Activated carbon block is a blend of fine activated carbon (e.g. 80 x 325 mesh activated carbon), water and a suitable binder (such as polyethylene or a similar material) that is mixed and molded and hardened or extruded to a cartridge filter of any size and shape. Sometimes specialized media are added along with activated carbon to provide customized performances for specific contaminants.

**Adhesive:** An Adhesive is a material used to coat filter fibers in order to increase the retentivity of dust particles by the fibers.

**Adsorbent:** An Adsorbent is an adsorber. That upon which adsorption takes place. It is the material to which a gas molecule is attached and retained.

**Adsorption:** The physical process occurring when liquids, gases, or suspended matter adhere to the surfaces of or in the pores of an adsorbent medium. Adsorption is a physical process, which occurs without chemical reaction.

**Advanced water treatment:** The level of water treatment that requires an 85-percent reduction in pollutant concentration, also known as tertiary treatment.

**Aerobic Bacteria:** Organisms which require oxygen to live.

**Aggressive water:** Water that is soft and acidic and can corrode plumbing, pipes and appliances.

**Algae:** Algae is a very diverse group of photosynthetic plants, ranging from microscopic single-cell forms to multi-cellular, very large forms such as seaweed. All of them contain chlorophyll and hence most are green, but some of them may be different colors due to the presence of other, overshadowing pigments.

**Alkaline:** The condition of water or soil which contains a sufficient amount of alkali substances to raise the pH above 7.0.

**Alkalinity:** The capacity of water to neutralize acids, a property imparted by the water's content of carbonates, bicarbonates, hydroxides and occasionally borates, silicates and phosphates. It is expressed in milligrams per liter of equivalent calcium carbonate.

**Alkalizer:** an agent that counteracts or neutralizes acidity

**Ammonia:** An inorganic form of nitrogen, is contained in fertilizers, septic system effluent, and animal wastes. It is also a product of bacterial decomposition of organic matter.

Ammonia NH<sub>3</sub>-N (NH<sub>3</sub>-N) becomes a concern if high levels of the un-ionized form are present. In this form NH<sub>3</sub>-N can be toxic to aquatic organisms. The presence of un-ionized ammonia is a function of the NH<sub>3</sub>-N concentration, pH, and temperature. Conversion of NH<sub>3</sub>-N to nitrite nitrogen by nitrification requires large quantities of oxygen which can kill aquatic organisms due to the lowered dissolved oxygen concentrations in water. NH<sub>3</sub>-N concentrations are reported in mg/L NH<sub>3</sub>-N.

**Ambient:** Refers to "common" environmental conditions in which experiment is conducted. For example: 14.7 psia and 20° to 25°C (room temperature).

**Anaerobic:** A condition in which there is no air or no available free oxygen. Organism capable of growing without the presence of oxygen.

**Anisotropic (ASYMMETRIC) MEMBRANE:** A membrane in which the pore size and structure are not the same from one side of the membrane to the other. Such membranes are usually considered "directional" because of the difference in flow characteristics depending on which side of the membrane faces the feed stream.

**Anion:** An ion with a negative charge. An anion such as chloride (CL), nitrate (N03) bicarbonate (HC03), or sulfate (S04) may result from the dissociation of salt, acid or alkali.

**Anion Exchange:** An ion exchange process in which anions in solutions are exchanged for other anions from an ion exchange resin. See also ion exchange.

**Aqueous:** Similar to or resembling water. In reference to solution made in water.

**Aseptic:** Refers to an operation performed in a sterile environment designed to prevent contamination through introduction of bacteria.

**Automatic Water Softener (Or Automatic Filter):** A water softener (or filter) that is equipped with a clock timer, which automatically initiates the backwash and/or regeneration process at certain preset intervals of time. All operations, including bypass of treated or untreated water (depending upon design) backwashing, brining, rinsing and returning the unit to service are performed automatically.

**Backpressure:** A backward surge of pressure from downstream to upstream of the filter. Can be the result of closing a valve or air entrapped in a liquid system.

**Backwash:** The up flow or counter current flow of water through a filter medium or ion exchange medium for the purpose of thoroughly expanding the media bed to remove foreign particulate matter accumulated during the service cycle and to flush it to the drain.

**Bacteria:** Single-celled organism (singular form=bacterium) which lacks well-defined nuclear membranes and other specialized functional cell parts and reproduces by cell division or spores. Bacteria may be free-living organisms or parasites. Bacteria (along with fungi) are decomposers that breakdown the wastes and bodies of dead organisms, making their components available for reuse. Bacteria cells range from about 1-10 microns in length and from 0.2 to 1 micron in width. They exist almost everywhere on earth. Despite their small size, the total weight of all bacteria in the world likely exceeds that of all other organisms combined. Some bacteria are helpful to man, others harmful.

**Bacteriostatic Media:** Inhibits the growth of bacteria within the media bed.

**Bar:** A unit of pressure. One bar = 14.5 psi.

**Beta Ratio:** The ratio of the number of particles of a given size and larger upstream of a filter to the number of particles of the same size and larger downstream.

> Beta Ratio and Efficiency Relationship

Beta Ratio	% Efficiency
1	0
2	50
4	75
5	80
10	90
20	95
50	98
75	98.67
100	99
1,000	99.9
5,000	99.98
10,000	99.99

**BOD:** Biochemical oxygen demand.

**Bottled water:** Water that is sold in plastic containers for drinking water and/ or domestic use.

**Bioburden:** The load or level of microorganisms in a substance to be filtered.

**Biocide:** A chemical which can kill or inhibit the growth of living organisms such as bacteria, fungi, molds and slimes.

**Biohazard:** Biological refuse, possibly pathogenic in nature.

**Biosafety:** Biological safety or non-toxicity of a substance to a living organism by passing tests as listed in the United States Pharmacopeia. Analogous to "chemically inert." For filters used in biological and health care application, Plastic Class-VI

**Blackwater:** Wastewater from toilets, latrines, privies, water containing feces or body fluids and water from sinks used for food preparation or disposal of chemical or biological ingredients.

**Blue-green algae:** Prokaryotic organisms with a bacteria-like cell structure, lacking a nucleus and other organelles, these species manufacture photosynthetic pigments but lack chloroplasts, the specialized photosynthetic organelles in higher plants, in some situations an increase in blue-green algae can indicate an environmental stress such as pollution.

**Brackish Water:** Water containing dissolved solids in the range 1000-15000 ppm.

**Brine:** A strong solution of salt(s) with total dissolved solids concentrates in the range of 30,000 to 300,000.

**Bridging:** Condition of filter loading where contaminants span the open space between adjacent sections of a filter medium, thus blocking a portion of the useful filtration area.

**Bubble Point:** Pressure drop in inches of water required to expel the first steady (continuous) stream of bubbles (fizz point) from a horizontal disc of wetted filter medium or a filter cartridge immersed in a liquid (usually alcohol).

**Bubble Point Pressure:** A test to determine the maximum pore size openings of a filter. The differential gas pressure at which a wetting liquid (usually water) is pushed out of the largest pores and a steady stream of gas bubbles is emitted from a wetted filter under specific test conditions. Used as filter integrity test with specific, validated, pressure values for specific pore-size (and type) filters.

**Bubble Point Test:** A common, nondestructive method used to test the integrity of cartridge construction to compare relative porosities of filter media or to monitor product consistency as a quality control method.

**Buna-N:** A Nitrile rubber seal compound. This is a generic term covering many formulations.

**Burst Pressure:** The pressure causing rupture. The inside-out differential pressure that causes outward pressure on the structural of a filter medium, filter or housing.

**Bypass:** Fluid flowing through a passage other than the filter medium and/or leakage around filter media seals.

**Bypass Flow Restrictor:** A device to direct feed material through the membrane elements retentate flow channels while allowing a controlled amount to bypass these channels.

**By-product:** A by-product is an incidental or secondary product made in the manufacture of a primary product. For example, a by-product of cheese production is whey which through membrane filtration can be fractionated into valuable products such as whey protein concentrate and whey protein isolate; a by-products of biodiesel production is glycerine and a by-product of bioethanol production is DDGS.

**Cake:** Solids deposited on the filter media.

**Calcium:** A metallic element essential for the normal development and functioning of the body. Calcium is an important constituent of bones and teeth; the matrix of bone, consisting principally of calcium phosphate, accounts for 99% of the body's calcium. Membrane filtration systems can be used to harvest the calcium but more commonly it can be used to remove the calcium from water (and other solvents).

**Candle Filter:** A reusable filter consisting of a tube made from ceramics or metal. Flow is from the outside-in with particulate accumulating on the outside of the candle. The candle can be cleaned by various means, including back-pulsing, heat, chemicals etc.

**Capacity:** Volume of product which a housing will accommodate expressed in gallons or similar units. Also, amount which will filter at a given efficiency and flow rate, expressed in gallons per minute or similar units.

**Capillary membranes:** Membranes about the thickness of a human hair, used for Reverse Osmosis, nanofiltration, ultrafiltration and microfiltration.

**Carbon Filter:** A carbon filter is an air purifier using activated carbon as the air cleansing agent for the removal of gaseous contaminants.

**Carbon Tetrachloride Activity:** The maximum percentage increase in weight of a bed of tetrachloride has passed through at a given temperature.

**Carcinogen:** Any substance which tends to produce cancer in an organism.

**Cartridge Filter:** A device made up of a housing and a removable cartridge (element) for a fluid filtration. In high flow rate commercial applications, the element is clustered in a large housing. Elements can be cleanable and reusable or disposable.

**Cation:** A positive ion in an electrolyte solution, attracted to the cathode under the influence of a difference in electrical potential sodium ion is a cation.

**Cartridge Design Flow Rate:** Flow rate at which cartridge published performance was generated in laboratory tests. Flow rates above those listed below will adversely affect the efficiency and dirt-holding capacity of cartridge

**Cellulose:** (1) fibers used to manufacturer wetlaid paper (2) used as a filter aid in highly refined alpha cellulose form or as the slightly more unbleached form.

**Ceramic:** Ceramics can be defined as inorganic, nonmetallic materials. They are typically crystalline in nature and are compounds formed between metallic and nonmetallic elements. Typically the ceramic form used in membranes are  $\alpha$ -aluminum oxide, titanium dioxide,  $\text{TiO}_2$ , zirconium dioxide,  $\text{ZrO}_2$ .

**Channeling:** Tendency for contaminant to pass through a low-density area of an inconsistent filter medium or around cartridge seal points.

**Chloramines:** Chemical complexes formed from the reaction between ammonia and chlorine being used to disinfect many municipal water supplies. Unlike chlorine, chloramines do not combine with organics in the water to form potentially dangerous trihalomethanes (THMS). Chloramines can exist in three forms: 1. Monochloramine 2. Dichloramine 3. Nitrogen Trichloride. Water containing chloramines must not be used for fish or kidney dialysis applications.

**Chlorinated:** A compound that has been reacted with the halide chlorine and now contains at least one chlorine atom in the molecule.

**Chlorination:** The addition of chlorine to water primarily for the purpose of disinfection but also for other biological or chemical purposes.

**Chronic toxicity:** A long-term toxic effect produced in an organism by a toxicant, a substance or a mixture of substances.

**Chromatography:** The separation of substances in a mixture based on their affinity for certain solvents and solid surfaces.

**Classification:** Arrangement or separation of particles by size.

**Cleanroom:** A Cleanroom is a room (facility) in which the air supply, air distribution, filtration of air supply, materials of construction, and operating procedures are regulated to control airborne particle concentrations to meet appropriate cleanliness levels.

**Cleanable:** A filter element which, when loaded with contaminant, can be cleaned by a suitable process and returned to service with an acceptable percentage of its original dirt holding capacity.

**Cleanability:** The ability of a filter element to withstand repeated cleanings, while maintaining adequate dirt capacity.

**COD:** Chemical oxygen demand.

**Colloids:** Suspension of submicron particles in a continuous fluid medium that will not settle out of the medium.

**Compatibility:** Term used in relation to the non-reactivity of filter materials with the substance to be filtered.

**Conductivity:** Used as an approximate measurement of mineral content. Units commonly used as micro mhos/cm.

**Concentrator:** An apparatus or method for removing some of the water from a sample to concentrate the substances dissolved or suspended in it; usually used to concentrate solutions of biological macromolecules, e.g., proteins and nucleic acids.

**Contaminant:** Undesirable insoluble solid or gelatinous particles present in a fluid.

**Core:** Commonly refers to a perforated tube, which serves as the center of a filter cartridge (element).

**Core Yarn:** Used in filtration with fiberglass or synthetic yarn. Spun or textured yarns are twisted around a filament (core) yarn, adding yarn strength and stability.

**Crossflow (Tangential Flow) Filtration:** A filtration system in which the feed stream flows across the filter media and exits as a retentate stream. The retentate stream is recycled to merge into the feed stream, while a portion of it passes through the filter media, resulting in concentration of the feed stream (referred to as concentrate).

**Cross-flow membrane filtration:** Cross-flow membrane filtration describes a range of molecular-level separations in the micron and sub-micron scale where either a solvent is separated from solutes or different solutes are separated from each other. Nominal membrane porosity is indirectly proportionate to operating pressure; the "tighter" the membrane, the higher the process operating pressure requirement. This is due to differences in the transport mechanisms involved whereby diffusion plays the key role in separations occurring in the reverse osmosis range while size exclusion is the primary separation mechanism for ultrafiltration.

**Cycle Length/Filter Life:** The duration, measured in time or volume, that a filter can operate effectively between replacement and/or cleaning.

**Cyclone:** A conical-shaped vessel for separating mixed sized particulates from the gas stream. The vessel has a tangential entry at the largest diameter allowing the larger particles to drop out and be removed from the bottom of the cone while smaller particulate exits overhead with the majority of the gas stream.

**Cyanobacteria:** (blue-green algae) A division of bacteria that obtain their energy through photosynthesis. They are often referred to as blue-green algae, although they are in fact bacteria, not algae. The description is primarily used to reflect their appearance and ecological role rather than their evolutionary lineage.

**Dead End (Conventional) Filtration:** Feed stream flows in one direction only, perpendicular to and through the filter medium to emerge as product or filtrate.

**Delta ( $\Delta$ ) P:** See "Differential Pressure".

**Deionization:** The removal of all ionized minerals and salts (both organic and inorganic) from a solution by a two-phase ion exchange procedure. First, positively charged ions are removed by a cation exchange resin in exchange for a chemically equivalent amount of hydrogen ions. Second, negatively charged ions are removed by an anion exchange resin for a chemically equivalent amount of hydroxide ions. The hydrogen and hydroxide ions introduced in this process unite to water molecules. This process is also called demineralization by ion exchange.

**Density:** Mass per unit volume of a substance under specified conditions of temperature and pressure. Mass/unit volume, usually expressed in g/cc, lb./cu. ft or lb./gal.

**Depth Filter:** A matrix of randomly distributed fibers creating a tortuous path with pores of undefined size and shape.

**Depth Media:** Generally filter media that are thick and provide graded density construction. Wound, resin-bonded and melt blown cartridges fall into this category. Typically, these cartridges result in lower flow rates, higher initial pressure drops and lower dirt holding capacities than surface media (pleated).

**Desalination:** The removal of dissolved inorganic solids (salts) from a solution such as water to produce a liquid which is free of dissolved salts. Desalination is typically accomplished by distillation, reverse osmosis or electrodialysis.

**Differential Pressure - Delta ( $\Delta$ ) P:** The difference in pressure at two points in a water system. Differences may be due to variations in elevation or to friction losses, or to pressure drops caused by resistance to water flow through pipes, softeners, filters or other devices. The change in pressure or the pressure drop across a component or device located within the air stream; the difference between static pressure measured at the inlet and outlet of a component device.

**Differential Pressure/Pressure Drop:** Difference in pressure between two points in a system. In filters, this is usually measured between the inlet and outlet of the filter housing (is a determining factor of filter service life).

**Dissolved oxygen:** The concentration of molecular oxygen ( $\text{O}_2$ ) dissolved in water, usually expressed in milligrams per liter (mg/L), parts per million, or percent of saturation. The DO level represents one of the most important measurements of water quality and is a critical indicator of a water body's ability to support healthy ecosystems. Levels above 5 mg/L are considered optimal, and most fish cannot survive for prolonged periods at levels below 3 mg/L. Microbial communities in water use oxygen to breakdown organic materials, such as manure, sewage and decomposing algae. Low levels of dissolved oxygen can be a sign that too much organic material is in a water body.

**DI Water:** Deionized water; water processed through an ion exchange process by passing through both cation and anion exchange resin beds, or a mixed resin bed to remove both positive and negative ions. The purity of water is measured by its electric resistance. High quality DI water has a minimum resistance of 18 megohm per cm at 25°C.

**Dirt Holding Capacity:** The weight of a contaminant fed to the filter during a test to reach a predefined terminal pressure drop.

**Disposable Filters:** Those filters not cleaned or reused. Referred to as one-time or single-use filters.

**Dissolve:** The process by which solid particles separate from the mass and mix molecule by molecule with a liquid and appear to become part of the liquid.

**Dissolved metals:** In a liquid, metals which pass through a filter of a designated pore size, are assumed for environmental purposes to be dissolved.

**Dissolved organic matter, DOM:** Carbon compounds in water solution, generally from the decomposition of natural plant and animal tissues, but including some anthropogenic contaminants.

**Distillation:** The process of separating the water from the organic and inorganic contaminants through a combination of evaporation (or vaporization), cooling and condensation.

**Domestic water use:** Water used for household purposes, such as drinking, food preparation, bathing, washing clothes, dishes and dogs, flushing toilets and watering lawns and gardens, most domestic water is delivered to homes by a public water supply facility.

**DOP:** Dioctyl phthalate, a plasticizer that can be aerosolized to particles of extremely uniform size of the order of 0.3 $\mu\text{m}$ . Retention of DOP aerosol is used as a standard procedure for pore size rating of air filters.

**Double Open End (DOE):** Double Open Ended Cartridge. A filter cartridge configuration such that both ends are open and require housings with knife edge sealing devices.

**Downstream Side (Of Filter):** The filtrate or product stream side of the filter.

**Drinking water:** A water supply, treated or untreated which is intended for human consumption and uses and which is considered to be free of toxins and pathogenic bacteria, cysts or viruses, potable water, fit to drink, potable water that has or is to be treated additionally, to enhance aesthetic quality and/or reduce mineral content plus other known or unknown, undesirable substances: by one or more point-of-use water processing devices or systems or purified bottled water.

**Dry Heat Sterilization:** Sterilization at or above 180°C using a convection or forced air oven without moisture; may concurrently depyrogenate if adequate time and elevated temperature are employed.

**Duplex Filter:** Assembly of two filters with a valve for selection of either or both filters.

**E. coli: Escherichia coli;** The most prevalent bacteria in the gastrointestinal tract of humans and animals. It occurs in solids and water as a result of fecal contamination.

**Efficiency:** The ability of the filter medium to remove particles from the fluid stream.

**Efficiency (Media Filtration):** The percent of contaminant reduction, which occurs with a specified medium volume and specified water contact time. Membrane filtration - the figure obtained (expressed as a percent) by dividing the volume (gallons or liters) of product water produced by the total volume (gallons or liters) of feed water to the particular unit or system.

**Effective Filtration Area:** The portion of filter that fluid flows through during the filtration (EFA) process.

**Effluent:** The fluid which has passed through a filter (syn: filtrate or product stream); also, outflow from other types of treatments such as wastewater treatment plants.

**Electrolyte:** Substances which will conduct an electrical current, either in molten state or in a solution e.g. NaCl in water.

**End Caps:** Components adhered to a filter element with adhesive or other means to contain the filter medium in a form designed for the element.

**End Cap:** The end of many types of filter cartridges.

**End Point:** Final objective or, in petroleum distillation, temperature at which the distillation ceases.

**Emulsion:** A suspension of small liquid droplets within a second liquid that will not mix.

**EPA:** Environment Protection Agency regulates environmental monitoring. Establishes and enforces its guidelines.

**Evaporation:** Evaporation is the process whereby atoms or molecules in a liquid state (or solid state if the substance sublimates) gain sufficient energy to enter the gaseous state. In other words, the process by which a liquid changes into a gas. (vaporization: the process of becoming a vapor; dehydration: the process of extracting moisture).

**FDA: The Food and Drug Administration (FDA or USFDA)** is an agency of the United States Department of Health and Human Services, one of the United States federal executive departments. The FDA is responsible for protecting and promoting public health through the regulation and supervision of safety of various products. To be used for filtration of foods, beverages, drugs or cosmetics. All filter construction materials must comply with regulations established by the Food and Drug Administration (FDA) as listed in CFR Title 21.

**Fecal coliform:** A group of bacteria found in the intestinal tract of humans and animals, and also found in soil. While harmless in themselves, coliform bacteria are commonly used as indicators of the presence of pathogenic organisms and other disease-causing bacteria, such as those that cause typhoid, dysentery, hepatitis A and cholera. Measured in number of bacteria per 100 milliliters of water. Failing septic systems and runoff from feedlots are common sources of fecal coliform in water samples.

**Feed:** Materials to be filtered. Also referred to as concentrate, influent, intake, liquor, mud, prefill, pulp, slime or sludge.

**Ferric Iron:** Small solid iron particles containing trivalent iron, usually as gelatinous ferric hydroxide or ferric oxide, which are suspended in water and visible as "rusty water." Ferric iron can normally be removed by filtration. Also called precipitated iron.

**Ferrous Iron:** A divalent iron ion, usually as ferrous bicarbonate which, when dissolved in water, produces a clear solution. It is usually removed by cation exchange water softening. Also called clear water iron.

**Flow meter:** A device for monitoring and measuring the flow of a substance (typically fluid or gas). GEA Filtration's sister-company, GEA Diessel, is a leading supplier of electromagnetic flow meters.

**Flux:** The rate of permeate flow through a membrane as expressed per unit of membrane area. (l/m<sup>2</sup>/hr or gal/ft<sup>2</sup>/day)

**Fiber:** Any particle with length greater than or equal to 0.5 micron and at least five times greater than its diameter, leaving substantially parallel sides.

**Filter (noun):** A device for carrying out filtration which consists of the filter medium and suitable holder for constraining and supporting the filter in the fluid path.

**Filter (verb):** To pass a fluid containing particles through a filter medium whereby particles are removed from the fluid.

**Filter Efficiency:** A measurement of how well a filter retains particles. Usually expressed as the percentage of retention of particles of a specific size by a filter; see also "Beta Ratio" and "Log Reduction Value."

**Filter Element:** (a) Filter media. (b) The combination of media and supports or stiffeners in a filter.

**Filter Frame:** The Filter Frame is the element which composes the whole outside of the filter. Not all air filters have frames.

**Filter Life:** Measure of a filter's useful service life based on the amount of standard contaminate required to cause differential pressure to increase to an unacceptable level, typically 2-4 times its initial differential pressure or 50-80% drop in initial flow or the downstream measure of unacceptable particulate.

**Filter Media Migration:** Problem caused by a filter medium which is constructed of a non-continuous or fibrous polymeric matrix such that portions of the filter change structure causing undefined pore size/distribution, as a function of fluid flow.

**Filter Medium:** The permeable material that removes particles from a fluid being filtered.  
**Filter Media:** Plural of filter medium.

**Filtrate:** The effluent of a filtration process. The filtered product.

**Filtration:** The process by which particles are removed from a fluid by passing the fluid through a permeable material.

**Filter Paper:** A permeable web of randomly oriented fibers, generally cellulose or glass fiber formed from water draining from a suspension fed in a paper making process. Also, a presentation at a filtration conference.

**Filter system:** The combination of a filter and associated hardware required for the filtration process.

**Filtration:** Separation of particulate matter from a fluid by passing the fluid through a permeable medium that will trap a percentage of the particulates.

**Filtration Efficiency:** That fraction of suspended particles retained by the filter.

**Filtration rate:** The volume of liquid that passes through a given area in a specified time. Usually expressed as gallons per square foot per minute (or hour).

**Flow Decay:** Decrease in flow rate as a result of filter plugging or clogging.

**Flow Decay Test:** An experiment to determine flow rate and throughput of a filter type or combination of filters on a specific liquid, usually by using a small area filters, to determine the sizing of a filter system by extrapolation.

**Flow Rate:** It is the speed at which a liquid flows and is measured in gallons or liters per minute. Flow rate of a liquid can be affected by the liquids' viscosity, differential pressure, temperature and type of filter used.

**Flow Resistance:** Resistance offered by a filter medium to fluid flow.

**Fluorinated:** A compound that has been reacted with the halide fluorine and now contains at least one fluorine atom in the molecule.

**Flux:** A relationship of flow to surface area; expressed as gallons per minute per square foot.

**Forward Flow Test:** An integrity test measuring air diffusion. See "Diffusional Flow Test."  
**Fungi:** Fungi are any of a group of parasitic lower plants that lack chlorophyll, including molds and mildews.

**Gasket:** Material inserted between contact surfaces of a joint to ensure a fluid-tight seal.

**Gauge Pressure:** Pressure greater than atmospheric pressure.

**Gels:** Compressible or semisolid materials that can pass through filter media at an undefined and inconsistent degree. Best removed by depth medium.

**GAC:** Granular Activated Carbon

**GMPs:** Good Manufacturing Practices. Regulations promulgated by the Food and Drug Administration governing the manufacture of drugs (Ref. Code of Federal Regulations 21 CFR 210 & 211), medical devices (21 CFR 820), and Large Volume Parenterals (21 CFR 212 proposed).

**GPH:** Gallons per hour.

**GPM:** Gallons per minute.

**Graded Density:** Variation in a cartridge that results in the filter medium being more dense toward the core and less dense toward the outside surface. This is useful where a wide range of particle sizes exists because it allows larger particles to be trapped toward the surface and smaller particles toward the core.

**Greywater:** Wastewater from clothes washing machines, showers, bathtubs, handwashing, lavatories and sinks that are not used for disposal of chemical or chemical-biological ingredients or feces.

**Gravity Filter:** Filter in which the driving force for filtration is provided solely by the head of liquor above the filter medium.

**Gravity Separation:** Separation of immiscible phases resulting from a difference in specific gravity by coalescing.

**Ground water:** Water within the earth that supplies wells and springs, water in the zone of saturation where all penings in rocks and soil are filled, the upper surface of which forms the water table, water that flows in aquifers under the surface of the land and not on the surface, water that flows or seeps downward and saturates soil or rock, the upper surface of the saturated zone is called the water table, water beneath the surface of the ground, consisting largely of surface water that has seeped down, water beneath the earth's surface, occurring in aquifers at one or more depth levels.

**Groundwater Testing:** Process of collecting and analyzing groundwater in areas where contamination is suspected such as dumpsites and landfills. Look for pesticides, dissolved metals, etc.

**Hardness:** A common quality of water which contains dissolved compounds of calcium and magnesium and, sometimes, other divalent and trivalent metallic elements. The term hardness was originally applied to waters that were hard to wash in, referring to the soap wasting properties of hard water. Hardness prevents soap from lathering by causing the development of an insoluble curdy precipitate in the water; hardness typically causes the buildup of hardness scale (such as seen in cooking pans). Dissolved calcium and magnesium salts are primarily responsible for most scaling in pipes and water heaters and cause numerous problems in laundry, kitchen, and bath. Hardness is usually expressed in grains per gallon (or ppm) as calcium carbonate equivalent.

Term	Grains/Gallon	Mg/Liter (ppm)
Soft	Less than 1.0	Less than 17.1
Slightly Hard	1.0 to 3.5	17.1 to 60
Moderately	3.5 to 7.0	60 to 120
Hard	7.0 to 10.5	120 to 180
Very Hard	10.5 and above	180 and above

**Hard water:** Water containing a high level of calcium, magnesium, and other minerals, hard water reduces the cleansing power of soap and produces scale in hot water lines, boilers and appliances.

**Heavy Metals:** Metallic elements with high atomic weights, e.g. mercury, barium, bismuth and lead. They can damage living things at low concentrations and tend to accumulate in the food chain. Metallic elements having a high density (> 5g/cm<sup>3</sup>), toxic for the most part.

**Herbicides:** Chemicals used to kill undesirable vegetation.

**Hold Up Volume:** Also called Retention Volume. Volume of fluid retained in a filter and/or housing after purging the assembly with air or suitable gas.

**Housing:** A metal or plastic tank or tube with an inlet and outlet containing a filter (s), allowing for the flow of a fluid and contaminate through the filter, while containing the process.

**Hydrometer:** An instrument used to measure the density of a liquid.

**Hydrophilic:** Having a strong affinity (liking) for water, and thereby exhibiting the characteristic of absorbing water. Example - cotton is a hydrophilic fiber. The opposite of hydrophobic. The tendency of a surface to wet with water (water loving).

**Hydrophobic:** Having a strong aversion (dislike) for water, and thereby exhibiting the characteristic of repelling water. Example - Nylon is a hydrophobic fiber. The opposite of hydrophilic. The tendency of a surface not to wet with water (water hating).

**Humidity:** Humidity is a measurement of the amount of moisture in the air.

**Influent:** Fluid entering the inlet of a filter.

**Inlet Pressure:** The pressure entering the inlet side of the filter. Also called upstream pressure or line pressure.

**In-Line Filter:** A filter assembly in which the inlet, outlet & filter element are in line.

**Integrity Test:** A non-destructive test which is used to predict the functional performance of a filter. The valid use of this test requires that it be correlated to standardized bacterial or particle retention test. Examples: Bubble Point Test, Diffusion Test, Forward Flow Test, Pressure Hold Test.

**Ion(s):** An atom or group of atoms that carries a positive or negative electrical charge as a result of having lost or gained one or more of the electrons.

**Ion Exchange:** A reversible chemical process in which ions from an insoluble permanent solid medium (the "ion exchanger" - usually a resin) are exchanged for ions in a solution or fluid mixture surrounding the insoluble medium. The superficial physical structure of the solid is not affected. The direction of exchange depends upon the selective attraction of the ion exchanger resin for the certain ions present and the concentration of the ions in the solution. Both cation and anion exchange are used in water conditioning. Cation exchange is commonly used for water softening.

**Ion Exchange Columns:** Vessels filled with ion exchange resin (anion, cation, or mixed) for producing conditioned or DI Water. Also, type of column used for Ion Exchange Chromatography (IEC).

**Ionizer:** Ion generators (or ionizers) are a type of air cleaner that act by charging the particles in a room so that they are attracted to and adhere to walls, floors, tabletops, draperies, occupants, etc. Abrasion can result in these particles being re-suspended into the air. In some cases these devices contain a collector to attract the charged particles back to the unit.

**ISO - International Organization for Standardization:** ISO (International Organization for Standardization) is the world's largest developer of standards. Coordinated from a central office in Geneva, Switzerland, the ISO is a network of the national standards institutes from 157 countries.

**Isotropic (Symmetric) Membrane:** Membrane in which the pore openings are the same diameter throughout the thickness and on both sides of the membrane. Such membranes are non-directional, i.e., their flow characteristics are independent of which side faces the feed stream.

**Iron:** A very common element often present in groundwater in amounts ranging from 0.01 to 10.0 ppm (mg/l). Iron may be found in three forms: 1. insoluble form such as in ferrous bicarbonate; 2. bound with a soluble organic compound; 3. as suspended ferric iron particles. Iron above 0.3 mg/l is objectionable in water because of staining of laundry and plumbing fixtures.

**Iron Bacteria:** Bacteria which thrive on iron and are able to actually use ferrous iron (as found in water or steel pipes) in their metabolic processes to incorporate ferric iron in their cell structure and to deposit gelatinous ferric hydroxide iron compounds in their life processes.

**K or k:** The symbol for kilo or 1,000. As in kilogram (kg = 1,000g) or kilometer (km = 1,000m). In information systems, and computers, 1K means 1024 bits of information. A 64K memory stores 65,536 bits.

**Laminar Flow:** Flow rate at which liquid is in a nonturbulent state (10 ft/ sec) and should not be exceeded to maintain filtration integrity and consistency.

**Leaching:** Extraction or flushing out of dissolved or suspended materials from the soil, solid waste or another medium by water or other liquids as they percolate down through the medium to ground water or flow laterally through the waste material, the process by which soluble materials in the soil, such as salts, nutrients, pesticide chemicals or contaminants, are washed into a lower layer of soil or are dissolved and carried away by water.

**Line Pressure:** The pressure in the supply line. Also called inlet pressure, upstream pressure.

**Manometer:** A U-shaped tube filled with a specific liquid. The difference in height between the liquid in each leg of the tube gives directly the difference in pressure on each leg of the tube. Used to monitor differential pressure.

**Mean Flow Pore Measurement:** The theoretical diameter of the mean pore. It is calculated as the diameter of the pore of a wetted membrane partially voided of liquid such that air flow of the partially wetted membrane is equal to  $\gamma$  the dry air flow.

**Mean Filtration Rating:** Average size of the pores of the filter medium.

**Media (Medium):** Material in a filter element that separates solids from liquid.

**Media Migration:** Contamination of the effluent by fibers or other material of which the filter is constructed.

**Meltblown:** A nonwoven manufacturing process for filtration media, where a molten polymer is extruded out of an orifice with high-velocity air to create fine fibers. The fibers can create roll stock or be spray-spun onto porous tubes to create a finished filter.

**Membrane:** A thin sheet or surface film, either natural or man-made, of microporous structure that performs as an efficient filter of particles down to the size range of chemical molecules and ions. Such membranes are termed "semipermeable" because some substances will pass through but others will not. Usually small ions, water, solvents, gases, and other very small molecules can pass through a membrane, but other ions and macromolecules such as proteins and colloids are barred from passage. Man-made (synthetic) membranes are highly engineered polymer films about 100 angstroms thick and with controlled distributions of pores ranging from 5 to 5,000 angstroms in diameter. Membranes are used in reverse osmosis, electro dialysis, nanofiltration, ultrafiltration, and as pleated final filter cartridges in water treatment.

**Membrane Area:** The effective wetted membrane contact area available during the cross flow filtration process.

**Membrane Filter:** A continuous matrix with pores of defined size.

**Mesh:** A term referring to a woven filtration medium, typically wire cloth or monofilament woven fabric.

**Mesh Count:** Number of openings or fractions of openings in a lineal inch of wire cloth or monofilament woven fabric.

**Mercury:** Mercury is a highly toxic element that is found both naturally and as an introduced contaminant in the environment. Although concentrations in water are very low, mercury accumulates through the aquatic food chain, resulting in high concentrations in fish that can threaten the health of people and wildlife. It is measured in units of nanograms per liter (ng/L) in water and milligrams per kilogram (mg/Kg) in fish.

**Microbe:** A Microbe is a microscopic, single cell organism.

**Micron:** Correct term is micrometer ( $\mu\text{m}$ ), which is .000039 inch. Human eye can see a 40-micrometer diameter particle. The common unit of measurement in the filtration industry is the micron or micrometer. One micron equals forty millionths of an inch (0.00004) or expressed differently 25.4 microns equals 0.001 inch.

**Micron Rating:** A measurement applied to filters or filter media to indicate the particle size at which a substantial percentage of suspended solids above that size will be removed. As used in the water treatment industry standards, this may be an absolute rating or a nominal rating.

**Microfiltration:** Separation of particles ranging from 0.1 $\mu\text{m}$  to 10 $\mu\text{m}$  from a fluid by passing the fluid through a membrane. Used for clarification, sterilization or to detect or analyze bacteria and other organisms and particulate matter.

**Micrometer (m):** Also referred to as "micron." It is a 1/1,000,000 of a meter (1 $\mu\text{m}$  = 10 $\mu\text{m}$  = .000039 in); 25.4 $\mu\text{m}$  = 0.001 inch; 60 $\mu\text{m}$  = approximately the diameter of a human hair.

**Microporous Membrane:** Thin polymeric films (e.g. 0.001 to 0.005" thick) often with millions of pores per square inch, aligned as a tortuous path, allowing for the passage of a fluid to remove solids. Often used for sterilizing filtration and other fine filtration purposes. Considered a surface filter medium.

**Micron Rating:** A measurement applied to filters or filter media to indicate the particle size at which suspended solids above that size will be removed. As used in the water treatment industry standards, this may be an absolute rating or a nominal rating.

**MIL:** A unit of measure equal to one thousandth of an inch. 1 mil = 0.001 in = 0.025 mm.

**Milligrams Per Liter (mg/l):** A measure of concentration of a dissolved substance. A concentration of one mg/l means that one milligram of a substance is dissolved in each liter of water. For practical purposes, this unit is equal to parts per million (ppm) since one liter of water is equal in weight to one million milligrams. Thus, a liter of water containing 10 milligrams of calcium has 10 parts of calcium per one million parts of water, or 10 parts per million (10 ppm).

**Minimum Bubble Point Pressure:** Also referred to as minimum critical bubble point pressure, it is a filter specification derived from diffusional flow – bubble point curves for a number of filters. It is a diffusional flow pressure just before the onset of bulk flow.

**Mixed Bed:** The intermix of two or more filter or ion exchange products in the same vessel during a service run. The most common use is in ion exchange systems having a 40/60 percent cation to anion resin bed such as that for a deionization polisher unit. In filtration, there may be an intermix of two or more media in a single tank with each stratified into separate layers.

**Molecular Weight:** Sum of the atomic weights of all atoms in a molecule. Also, Mole or Mol weight.

**Mold:** Mold is a fungus which grows on damp, decaying organic matter. It is characterized by a fuzzy mat surface.

**MTBE (Methyl Tertiary Butyl Ether):** A volatile organic chemical (VOC) used as an octane-enhancing lead substitute and more recently as an oxygenating agent in gasoline to reduce carbon monoxide emissions from automobiles. MTBE is volatile, flammable and highly soluble in water. During refueling and gasoline production, MTBE is volatilized to the atmosphere where it dissolves into the atmospheric moisture and returns to earth in precipitation. Since MTBE does not adsorb well with organic matter in soils it is easily washed away. In surface water, MTBE volatilizes into the air, while in ground water, MTBE persists and moves freely. MTBE occurrences in ground water above 40 ppb have so far been attributed to point source contamination such as underground tank leaks, overflows, etc. EPA has tentatively classified MTBE as a potential human carcinogen. MTBE filtration system is available from USFilter model SY2300, product bulletin number 201141.

**Nanosilver:** silver particles of between 1 nm and 100 nm in size. Used in various applications as antimicrobial agent.

**NanoSilver Activated Carbon:** made by natural coconut carbon, with essential effect to reduce Taste, Odor, Chlorine for pre-filtering purpose, and plus Bacteria resistance competed to UV Sterilizer but with cost reduction solution. About Nano-meter: Nano-meter (10<sup>-9</sup> meter) is in the spectrum particle sizes between molecular and DNA. The coverage Bacteria sorts beyond 650 species to damage the mechanism of germ's metabolism. The interference of cell wall is the root function to kill the existing unicellular germs and their breeding.

**Nanofiltration:** A membrane treatment process which falls between reverse osmosis and ultrafiltration on the filtration/separation spectrum. The nanofiltration process can pass more water at lower pressure operations that reverse osmosis, can remove particles in the 300 to 1,000 molecular weight range such as humic acid and organic color bodies present in water, and can reject selected (typically polyvalent) salts. Nanofiltration may be used for selective removal of hardness ions in a process known as membrane softening.

**Nanotechnology:** Nanotechnology is a branch of science that proposes the manipulation of single atoms.

**Neutralization:** The addition of either an acid to a base or a base to an acid to produce a more nearly neutral solution. The use of alkaline or basic materials to neutralize acidity of some water is common practice in water processing.

Neutralization does not always mean the attaining of pH 7.0. When a strong acid reacts (is neutralized) with a weak base, the resulting pH may remain less than 7.0; when a strong base reacts with a weak acid, the pH may remain greater than 7.0.

**NFR:** Non-fiber releasing. A filter which will not release fibers into the filtrate.

**Nitrates:** In lakes, most nitrate/nitrogen is in NO<sub>3</sub> form. It is measured in milligrams per liter. Elevated levels of nitrates/nitrogen are often caused by over application of fertilizers that leach into waterbodies.

**Nominal:** An arbitrary term used to describe the degree of filtration and generally not comparable or interchangeable between products or manufacturers. A user should always ask for a copy the test procedure used and results from the manufacturer's lab notebook to understand each rating.

**Nominal Filter Rating:** Filter rating indicating the approximate size particle, the majority of which will not pass through the filter. It is generally interpreted as meaning that 85 percent of the particles of the size equal to the nominal filter rating will be retained by the filter.

**Nominal Rating:** Micron size removed at a given efficiency under a manufacturer's defined test condition. An arbitrary term assigned by a manufacturer. Varies from 50%-98% depending on manufacturer and product.

**Nonwoven:** A filter fabric that is formed of natural or synthetic fibers that are randomly oriented in filtration media. Typically, held together with a binder or fibers are entangled.

**Non-potable:** Not suitable for drinking due to toxins, pathogens or aesthetics.

**Nylon:** A thermoplastic, polymeric material that has high mechanical strength & compatibility with many different kinds of chemicals. When used as a membrane it is hydrophilic.

**Odor:** An Odor is a quality of gases, liquid, or particles that stimulates the olfactory organ.

**OEM:** Original Equipment Manufacturers.

**Open Area:** Pore area of a filter medium, often expressed as a percentage of the total area.

**Operating Pressure:** The manufacturer's specified range of pressure expressed in pounds per square inch (psi) within which a water processing device or water system is designed to function. A range of 30 to 100 psi is often indicated.

**Operating Temperature:** The manufacturer's recommended feedwater or inlet water temperature for a water treatment system.

**Organic:** Related to or derived from a living organism. Always contains carbon.

**ORP:** is a measurement of water's ability to oxidize other substances. The higher the ORP, the greater number of oxidizing agents.

**Osmosis:** Diffusion of a liquid through a semi-permeable membrane from a dilute solution into a more concentrated solution, thus tending to equalize the concentration of each side of the membrane.

**Osmotic pressure:** Pressure exerted by mass transfer of fluids between systems moving toward chemical potential equilibrium.

**Outlet Pressure:** The pressure exiting the outlet side of the filter. Also called downstream pressure.

**Oxides:** Chemicals formed by reacting with Oxygen eg FeO, Fe<sub>2</sub>O<sub>3</sub>, CO<sub>2</sub>

**Ozone (O<sub>3</sub>):** A very strong oxidizing agent, which is unstable and must be generated on site. Ozone is a highly reactive form of oxygen and can be produced by sending a high voltage electrical discharge through air or oxygen (such as occurs in a lightning storm). Some degree of ozone can also be produced by certain types of ultraviolet lamps. Ozone is an excellent oxidizing agent and bactericide. Ozone is a gas whose molecules are composed of three oxygen atoms. It is an unstable gas which is significantly toxic. The 1989 threshold level value for ozone was 0.1 part per million for an eight hour time weighted average.

**Parallel Filtration:** Branching a filtration setup so that two assemblies of the same pore size are in parallel, to increase flow rate or simplify filter changes.

**Particle:** Any discrete unit of material structure; a discernible mass having an observable length, width, thickness, size and shape.

**Particle Count:** Practice of counting particles of solid matter in groups based on relative size contained in a certain area.

**Particulate:** Relating to or occurring in the form of fine particles.

**Particle Removal Efficiency:** Removal of particles as a function of size as determined by counting individual particles.

**Parts Per Million (ppm):** A measure of proportion by weight, which is equivalent to one unit of weight of solute (dissolved substance) per million weights of solution. Since one liter of water weighs one million milligrams, one ppm is equal to one milligram per liter (mg/l). Milligram per liter is the preferred unit of measure in water or waste water analysis.

**Pascal (Pa):** A unit of pressure equal to one newton of force per square meter. One thousand pascals equal one kilopascal (kPa); a kilopascal equals 0.145 pounds per square inch. 1 psi = 6895 Pa = 6.895 kN/sq.m = 0.0703 kg/sq.cm

**Pasteurization:** Partial sterilization of a substance and especially a liquid (as milk) at a temperature and time of exposure that destroys objectionable organisms without a major chemical alteration of the substance. Maintaining the high temperature for only a short period of time is referred to as "flash" pasteurization.

**Pathogens:** Micro-organisms that can cause disease in other organisms or in humans, animals, and plants. They may be bacteria, viruses, or parasites and are found in sewage, in runoff from animals, and in water used for swimming. Fish and shellfish contaminated by pathogens, or the contaminated water itself, can cause serious illness.

**Peristaltic Pump:** A pump functioning by alternate pinching and release of tubing which drives the fluid forward in a pulsing action. The major advantage's are that the peristaltic pump is noninvasive, i.e., the pump does not contact the fluid being filtered, only the inner wall of the tubing contacts the fluid and the low shear imparted.

**Permeability:** The property of a filter medium that permits a fluid to pass through under a pressure differential (such as gpm/ psi).

**Permeate:** The fluid which passes through a membrane.

**pH:** A measure of the degree of the acidity or the alkalinity of a solution as measured on a scale ("pH scale") of 0 to 14. The midpoint of 7.0 on the pH scale represents neutrality - a "neutral" solution that is neither acid nor alkaline. Numbers below 7.0 indicate acidity; numbers above 7.0 indicate alkalinity. It is important to understand that pH is a measure of intensity, not of capacity. That is, pH indicates the intensity of alkalinity or acidity in the same way temperature tells how hot something is but not how much heat the substance carries.

**Pesticides:** Chemicals used to kill or control pests, such as weeds, insects, fungus, mites, algae, rodents and other undesirable agents.

**Phosphates:** A phosphate, in inorganic chemistry, is a salt of phosphoric acid. Phosphates are used for water softening and detergency.

**Plankton:** The total free-floating community of small, mostly microscopic, organisms in water, some are motile but all are at the mercy of water currents.

**Plastisol:** Suspension of a thermosetting plastic which can be molded into a desired shape. Used as a combination end cap and gasket on an element.

**Pleated:** A filter element whose medium consists of a series of uniform folds and has a geometric form of a cylinder, cone, disc, plate, etc. Synonymous with "convoluted" and "corrugated."

**Polyphosphate:** Crystals is an economic and reliable water treatment system for potable and industrial water. It consists of polyphosphate silicate. It can reduce the hardness in water.

**Polyester Fiber:** Polyester Fiber is a manufactured fiber produced by the reaction of ethylene glycol and terephthalic acid. Polyesters are the most common type fibers used in synthetic fiber filtration media. They are available in a wide range of deniers and are resistant to many chemicals and to moisture.

**Point of Entry Filters:** Filters installed at the main water line, where water enters the home.

**Point Of Use Filters:** Filters located immediately prior to where a clean effluent is required in a process.

**Polypropylene:** A thermoplastic polymeric material which is resistant to a broad range of chemicals. When used as a membrane, polypropylene is hydrophobic.

**Polysulfone:** Commonly used membrane material. Has excellent flow rates, high mechanical strength, resistant to a broad range of temperatures (can be sterilized) and is hydrophilic. Is not resistant to exposure to many organic solvents.

**Pore:** Opening in a medium. Also referred to as interstices. Size and shape of the openings are controlled by the manufacturer of the filter medium.

**Pore Size:** Diameter of pore in a filter medium.

**Pore Size – Absolute Rating:** The rated pore size of a filter. Particles equal or larger than the rated pore size are retained with 100% efficiency.

**Pore Size – Nominal Rating:** The pore size at which a particle of defined size will be retained with efficiency below 100% (typically 90-98%). Rating methods vary widely between manufacturers.

**Pore Size Distribution:** Exclusive to permeable medium: describes the number of pores in various groups of sizes in a way similar to that discussed under particle size distribution.

**Porosity:** The percent of open areas per unit volume of a medium whether it be a filter cake or roll stock, such as a paper, membrane, woven textile or nonwoven fabric.

**Porous Metal:** Finely ground chards of sintered metal, which serve as a filter medium. Often used in high-pressure and/or temperature applications.

**Porous Plastic:** Filter media made from finely ground plastic powder. When filled into a mold and heated, the points of powder contact to fuse, while allowing the spaces between the particles to remain open for fluid flow.

**Potable:** Drinkable (water).

**Potassium Permanganate:** Potassium Permanganate is an oxidizing agent. It is frequently impregnated on activated alumina.

**ppb:** A concentration unit of chemical constituents in solution; the weight of solute per unit volume of solvent, usually water, one thousand micrograms per liter is equivalent to 1 milligram per litre, this measure is equivalent to parts per billion.

**ppm:** A concentration unit of chemical constituents in solution; the weight of solute per unit volume of solvent, usually water, one thousand milligrams per liter is equivalent to 1 gram per litre, this measure is equivalent to parts per million.

**ppt:** A concentration unit of chemical constituents in solution; the weight of solute per unit volume of solvent, usually applied to marine, brackish or saline water, this measure is equivalent to parts per thousand.

**Precoat:** A deposit of material (usually inert), such as a filter aid on a septum prior to beginning filtration.

**Protein Binding:** Adsorption of a protein to a surface such as a cellulose nitrate or nylon membrane due to several types of interactions between the protein molecules and the surface.

**Pressure Differential:** The difference in the pressure between two points in a water system. The difference may be due to the difference in elevation and/or to pressure drop resulting from water flow.

**Pressure Drop:** A decrease in the water pressure (in psi) which occurs as the water flows. Pressure drop may occur for several reasons: internal friction between the molecules of water, external friction between the water and the walls of the piping system, or rough areas in the channel through which the water flows. 2. The difference between the inlet and the outlet water pressure during water flow through a water treatment device such as a water conditioner. Abbreviated AP and measured in pounds per square inch gauge pressure.

**Pressure Head:** The vertical distance (in feet) equal to the pressure (in psi) at a specific point. The pressure head is equal to the pressure in psi times 2.31 ft/psi.

**PSI:** Pounds per square inch.

**PSIA:** Pounds per square inch absolute.

**PSID:** Pounds per square inch differential.

**PSIG:** Pounds per square inch Gauge.

**Pseudomonas Diminuta:** A type of bacteria used in sterility testing. One of the smallest bacteria (0.3µm in diameter), used to challenge a sterilizing grade filter during validation testing. Under HIMA challenge conditions (107 c.f.u./cm<sup>2</sup> EFA), sterilizing grade filters must retain all 100% of P. diminuta.

**PTFE:** Polytetrafluoroethylene; More commonly known as Teflon. Highly durable and resistant to a broad range of temperatures and chemicals. PTFE is hydrophobic

**Radial Flow:** The flow pattern in which water flows from the outside of a filter element to the center core. For example, a replaceable cartridge filter unit.

**Radon (Rn) And Radon Decay Products:** A colorless, odorless, short-lived radioactive gas which is produced by decay of the uranium/radium series and is soluble in water. Radon is considered carcinogenic when inhaled by humans. Radon can be removed from water by aeration or activated carbon. Radon is a radioactive gas formed in the decay of uranium. The radon decay products (also called radon daughters or progeny) can be breathed into the lung where they continue to release radiation as they further decay.

**Recovery:** Ability of a filter to recover bacteria (or other defined particles) from a solution. In Membrane Filtration Technique, expressed as percent of bacteria originally present or observed on a comparable pour plate.

**Regeneration:** (ion exchange, softening) The use of a chemical solution (regenerant) to displace the contaminant ions deposited on the ion exchange resin during the service run and replace them with the kind of ions necessary to restore the capacity of the exchange medium for reuse. This process is also called recharging or rejuvenation. Catalyst media are recharged similarly.

**Rejection:** Generally described as a percentage of salt rejection in a reverse osmosis membrane. Calculated as the percentage of salt which is held back by the membrane.  $R=1-(C_p/C_b)$  where R= Rejection, C<sub>p</sub>=Concentration in Permeate, C<sub>b</sub>=Concentration in Retentate

**Retention:** Ability of a filter to retain particles (total number or those of a specific size) suspended in a gas or liquid. Expressed as a percent of particles originally present.

**Retention Volume:** See "Hold-up Volume."

**Reusable Filters:** Filters that are washed or cleaned of contaminate, either in-situ or off-line, for additional uses.

**Reverse Osmosis (RO):** A water treatment process that removes undesirable materials from water by using pressure to force the water molecules through a semipermeable membrane. This process is called "reverse" osmosis because the pressure forces the water to flow in the reverse direction (from concentrated solution to the dilute solution) to the flow direction (from the dilute to the concentrated) in the process of natural osmosis. RO removes ionized salts, colloids, and organic molecules down to a molecular weight of 100. May be called hyperfiltration.

**Sanitization, Sanitize:** To make clean by removing dirt and other extraneous materials with soap and general disinfectant so as to reduce possibility of growth and spread of pathogenic organisms.

**Scavenger:** A filter or element in the bottom of a filter that recovers the liquid heel that remains in a filter tank at the end of a cycle.

**Screen:** Often a flat filter from wire cloth mesh or monofilament fabric filter used to classify particles of a certain size to "to screen out particles". Can also cover an element for protection; also used as a basic material for a separator element of basket in a basket strainer.

**Sediment:** Undissolved soil particles, sand and minerals washed from the land into aquatic systems as a result of natural and human activities, usually applied to material in suspension in water or recently deposited from suspension, all kinds of deposits from the waters of streams, lakes or seas.

**Sedimentation:** Action of settling of suspended solids.

**Self-Cleaning:** Filtering device designed to clean itself by the use of a blowdown or backwash action.

**Separation:** Action of separating solids or liquids from themselves (e.g. by size, viscosity, density, charge etc.) or liquids or gases from fluids.

**Serial Filtration:** Filtration through two or more filters of decreasing pore size one after the other to increase throughput, filtration efficiency, or to protect the final filter.

**Sieve:** A filter with straight-though capillary pores with identical dimension, e.g. a screen filter.

**Single Open End:** A filter cartridge configuration such that one end is sealed off by a closed end cap and the opposite end has a O-ring or other seal device.

**SOE:** Single Open Ended Cartridge

**Sorbed:** A general term for the results of the process of absorption and adsorption, often used to denote that either or both have occurred.

**Specific Gravity:** Ratio of weight of a volume of a substance to the weight of an equal volume of another substance typically compared to water with a specific gravity (Sp.G.) of 1.0.

**Spin-On-Filter:** Cartridge filter in which the filter body and the filter element have been constructed and an integral disposable item. Filter change is rapid by spinning off the used unit from a fixed filter head and rapidly adding on the replacement unit.

**Spiral Wound Element:** Membranes element configuration which is comprised of flat sheet membrane - permeate channel spacer - flat sheet membrane - feed channel spacer" combinations rolled up around a product collection tube.

**Spunbond:** A nonwoven fabric formed by producing, laying and self-bonding a web of filament material in one continuous set of processing steps. Usually made of polyester or polyolefin's.

**SS:** Abbreviation for stainless steel.

**Spun Yarn:** A continuous yarn for weaving of textiles consisting of staple fibers.

**Stacked Disc Filter:** A filter housing and device consisting of a plurality of leaves placed in a horizontal position. Used widely in food and beverage filtration.

**Standard (Nominal) Pressure:** A pressure of 1 atmosphere (14.70 psi or 760 mm of mercury) to which measurements of quantities dependent on pressure are often referred.

**Sterile, Sterility, Sterilization:** To make or be free of any viable microorganisms. Demonstrated by testing to show the absence of microorganisms.

**Sterilizing Filter:** A non-fiber releasing filter which produces an effluent in which no microorganisms are demonstrable when tested by the method specified in the current edition of the United States Pharmacopeia. Usually accepted as 0.2µm pore-size absolute rating.

**String Wound:** An inexpensive filter consisting of textile roving (yarn) wrapped around a center core to form a filter medium and filter cartridge (element).

**Suspended matter:** Solids that are not in true solution and that can be removed by filtration they usually contribute directly to turbidity, small particles of solid pollutants that resist separation by conventional methods; operationally greater than 0.45 microns in size; also known as non-filterable residue, suspended solids or suspended sediment.

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**SVP: Small Volume Parenteral;** Typically administered to a patient as a bolus or single syringe injection.

**Tannin:** Any of a group of water soluble, natural organic phenolic compounds that are produced by metabolism in trees and plants, and are part of the degradation-resistant fulvic acid materials formed during the decomposition of vegetation.

Tannins occur in water or in almost any location where large quantities of vegetation have decayed. Tannins can impact a faintly yellowish to brown color to water. Tannin molecules tend to form anions in water above pH 6 and can then be treated with anion exchange resins. Below pH 5, tannins are better treated with activated carbon.

**Throughput:** The amount of solution which will pass through a filter prior to clogging.

**Total Dissolved Solids (TDS):** The total weight of the solids that are dissolved in the water, given in ppm per unit volume of water. TDS is determined by filtering a given volume of water (usually through a 0.45 micron filter), evaporating it at a defined temperature (usually 103° -105° Celsius) and then weighing the residue.

Note: A test measuring the electrical conductivity of the water provides only an estimate of the TDS present, as conductivity is not precisely proportional to the weight of an ion and nonconductive substances cannot be measured by electrical tests.

**Total Solids:** The material residue left in the vessel after evaporation of a sample and its subsequent drying in an oven at 103-105°C. The increase in weight over that of the empty vessel represents the total solids. Used in analyzing drinking water.

**Total Suspended Solids:** The particles which can be removed from a solution by filtration, usually specified as the matter which will not pass through a 0.45 micron pore-diameter filter.

**Toxic:** Poisonous or harmful.

**Toxicant:** An element or compound with a harmful or lethal effect on the physiology, behaviour, reproduction or survival of an organism.

**Toxicity:** A measure of how poisonous a toxin is to an organism.

**Toxicity test:** A bioassay to determine the toxicity of a chemical or an effluent using living organisms, a toxicity test measures the degree of response of an exposed test organism to a specified concentration of chemical or effluent sample, living organisms are subjected to varying dilutions of polluted water or water containing known amounts of presumed or known toxins or contaminated sediment, mortality, declines in reproductive rates or behavioral changes indicate a toxic response.

**Toxin:** A compound or element which is toxic or poisonous in common usage. More strictly a toxin is a natural toxicant made by an organism as opposed to poisons manufactured by man.

**Toxic Substances:** Chemical elements and compounds, such as lead, radon, benzene, dioxin, and numerous others, that have toxic properties by either ingestion, inhalation, or absorption into the human body. There is considerable variation in the degree of toxicity among the various toxic substances and in the exposure level that induces toxicity.

**Trihalomethanes (THMs):** A group of organic chemicals, suspected of being carcinogenic, which are formed in water when chlorine being used as a disinfectant reacts with natural organic matter such as humic acids from decayed vegetation. Humic acids are present in all natural water used as sources of drinking water supplies. Chloroform is one of the most common THMs formed in this type of reaction.

**Turbidity:** The amount of small particles of solid matter suspended in water as measured by the amount of scattering and absorption of light rays caused by the particles. Turbidity blocks light rays and makes the water opaque. Turbidity is measured in nephelometric turbidity units (NTU). Potable water should not exceed 0.3 NTU. Turbidity cannot be directly equated to suspended solids because white particles reflect more light than dark-colored particles and many small particles will reflect more light than an equivalent large particle.

**Tourmaline:** Now, as a mineral, it has become a focus of research at universities and research centers worldwide. The reason - infrared Tourmaline is the only one mineral to show permanent electricity on the earth and is also a natural (non-manufactured) source of negative ions and far infrared (FIR) rays. It is also known to be helpful for improving circulation, relieving stress, increasing mental alertness and strengthening the immune system function.

**Ultrafiltration:** A method of cross flow filtration (similar to reverse osmosis but using lower pressures) which uses a membrane to separate small colloids and large molecules from water and other liquids. The ultrafiltration process falls between reverse osmosis and microfiltration in terms of the size of particles removed, with ultrafiltration removing particles in the 0.002 to 0.1 micron range, and typically rejecting organics over 1,000 molecular weight while passing ions and smaller organics.

**Ultraviolet (UV) Light:** Radiation (light) having a wavelength shorter than 3900 angstroms, the wavelengths of visible light, and longer than 100 angstroms, the wavelengths of x-rays. This wavelength puts ultraviolet light at the invisible violet end of the light spectrum. Ultraviolet light is used as a disinfectant.

**Uniformity Coefficient:** The measure of the variation in particle sizes of filter and ion exchange media. The coefficient is defined as the ratio of the sieve size that will permit passage of 60 percent of the media material by weight to the sieve size that will permit passage of 10 percent of the media material by weight. A uniformity coefficient of 1.00 denotes a material having particle grains all the same size; numbers increasingly greater than one denote increasingly less uniformity.

**Upstream Side (of filter):** The feed side of the filter.

**Vacuum:** The depression of pressure below atmospheric pressure.

**Validation:** Demonstration that a process or product does what it is supposed to do by challenging the system and providing complete documentation.

**Vessel:** A container, usually used as alternatively to the word housing e.g. filter vessel.

**Virus:** A parasitic infectious microbe, composed almost entirely of protein and nucleic acids, which can cause disease(s) in humans. Viruses can reproduce only within living cells. They are 0.004 to 0.1 microns in size, and about 100 times smaller than bacteria.

**Volatile:** Evaporates easily, converts easily from liquid form to gas.

**Volatile Organic Compounds (VOCs):** Volatile Organic Compounds are compounds that vaporize (become a gas) at room temperature. Common sources which may emit VOCs into indoor air include housekeeping and maintenance products, and building and furnishing materials. In sufficient quantities, VOCs can cause eye, nose, and throat irritations, headaches, dizziness, visual disorders, memory impairment; some are known to cause cancer in animals; some are suspected of causing, or are known to cause, cancer in humans. At present, not much is known about what health effects occur at the levels of VOCs typically found in public and commercial buildings.

**Wastewater:** Effluent water carried downstream from a filtration or separation process.

**Water Breakthrough Test:** An integrity test for hydrophobic filters in which the resistance to water flow is overcome by a specific pressure such that water will flow through a correspondingly specific pore size of the filter. Also called a water intrusion test. Useful test to determine gross loss of integrity (e.g., installation integrity) and filter hydrophobicity.

**Water cycle:** The natural pathway water follows as it changes between liquid, solid and gaseous states, biogeochemical cycle that moves and recycles water in various forms through the ecosphere, the circuit of water movement from the oceans to the atmosphere and to the Earth and back to the atmosphere through various stages or processes such as precipitation, interception, runoff, infiltration, percolation, storage, evaporation and transportation.

**Water Hammer:** The shock wave or series of waves caused by the resistance of inertia to an abrupt change (acceleration or deceleration) of water flow through a water piping system. Water hammer may produce an instantaneous pressure many times greater than the normal pressure. For this reason, many building codes now require the installation of a "water hammer arrestor," a device to absorb these shock waves and prevent damage to appliances such as washing machines.

**Water pollution:** Degradation of a body of water by a substance or condition to such a degree that the water fails to meet specified standards or cannot be used for a specific purpose.

**Water quality:** A term used to describe the chemical, physical and biological characteristics of water, usually in respect to its suitability for a particular purpose.

**Water quality criteria:** Scientifically derived ambient numerical values for physical, chemical or biological characteristics of water, biota or sediment which must not be exceeded to prevent specified detrimental effects from occurring to water uses, recommended concentrations, levels or narrative statements that should not be exceeded in order to protect the life or health of organisms.

**Water quality standard:** Law or regulation that consists of the designated use or uses of a waterbody or a segment of a waterbody and the water quality criteria that are necessary to protect the use or uses of that particular waterbody.

**Water Softener (mechanical):** A pressurized water treatment device in which hard water is passed through a bed of cation exchange media (either inorganic or synthetic organic) for the purpose of exchanging calcium and magnesium ions for sodium or potassium ions, thus producing a softened water which is more desirable for laundering, bathing, and dishwashing. This cation exchange process was originally called zeolite water softening or the Permutit Process. Most modern water softeners use a sulfonated bead form of styrene/divinylbenzene (DVB) cation resin.

**Water Softener Salt:** Salt suitable for regenerating residential and commercial cation exchange water softeners. Most commonly used for this purpose is sodium chloride (NaCl) in crystal or pelletized form. Rock grade salt should be 96-99 percent NaCl; evaporated salt should be 99+ percent NaCl. Potassium chloride (KC1) may also be used for the regeneration cycle in the cation exchange process, thus minimizing the amount of sodium added to both the softened water and the spent regenerant water going to the drain.

**Water Softening:** The reduction/removal of calcium and magnesium ions, which are the principal cause of hardness in water. The cation exchange resin method is most commonly used for residential and commercial water treatment. In municipal and industrial water treatment, the process can be lime softening or lime-soda softening.

**Water Source:** The basic origin of a water, either a surface source (such as a lake, river, or reservoir) or a subsurface source (such as a well). After treatment and pumping via pipe lines, the treated and pumped water becomes a water supply.

**Water table:** The level below the surface of the earth at which the ground becomes saturated with water, the surface of an unconfined aquifer which fluctuates due to seasonal precipitation, the top of the water surface in the saturated part of an aquifer.

**Water treatment:** A method of cleaning water for a specific purpose, such as drinking water, irrigation water or discharge to a stream.

**Well:** A bored, drilled, or driven shaft, or a dug hole, whose depth is greater than the largest surface dimension and whose purpose is to reach underground water supplies or oil, or to store or bury fluids below ground.

**Wet Distillers Grain (WDG):** A co-product of drymill ethanol production and a valuable feed for livestock. Wet distillers grain (WDG) is not as easily transportable, but the cost of drying the product is removed.

**Zeolite:** Zeolite is a type of adsorbent for removal of certain odors. It has, by its unique pore size, an affinity for low molecular weight compounds, specifically ammonia. Zeolites are minerals that have a micro-porous structure. Quite common mineral zeolites includes: analcime, chabazite, natrolite, phillipsite, and stilbite. Zeolites are the aluminosilicate members of the family of microporous solids known as "molecular sieves". Zeolites are widely used as ion-exchange beds in domestic and commercial water purification, softening, and other applications. In chemistry, zeolites are used to separate molecules (only molecules of certain sizes and shapes can pass through), as traps for molecules so they can be analyzed.

**Zooplankton:** Primarily microscopic animals which swim freely in the water column or are carried about by water currents, many feed on phytoplankton and are in turn a staple diet of small fish.



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# TERMS AND CONDITIONS OF SALE

Unless otherwise expressly specified by the Aquafilter, all business and payment transactions are as set forth in the general terms and conditions of sale hereafter defined.

## PURCHASE ORDER

Orders may be placed by fax, and/or e-mail to Aquafilter. Orders must include customer PO number, manufacturer's/Aquafilter part number, and pricing if apply. Purchase orders received without part numbers will not be processed until the part numbers are verified. Purchase orders must state if partial shipments are allowed and must designate required shipping method. If you do not have the parts numbers, pricing, or case quantity, please contact our sales department at [info@aquafilter.com](mailto:info@aquafilter.com) or visit our web site [www.aquafilter.com](http://www.aquafilter.com).

## ORDER CONFIRMATION

All purchase orders will be confirmed by e-mail with Pro forma Invoice. Any discrepancies in pricing, part numbers, descriptions, and/or case quantities will be noted in the order confirmation. It is the customer's responsibility to review the order confirmations and advise if any changes are required. If we do not hear from the customer regarding the confirmation, we will process order according to the confirmation. Prices include packaging that is satisfactory for truck, air, or containerized shipment at no additional charge (applies to full box quantity only).

## SHIPPING

The estimated shipping date is based on production times, required to process the order, commencing on the date which Aquafilter receives the order. In the event it is necessary to revise the design OEM; the applicable shipping date shall be extended by the period of time required to achieve the mutually agreed upon corrections or adjustments. Aquafilter reserves the right to make partial shipments. "Shipping date" refers to the date the order leaves Aquafilter warehouse; it does not take into consideration the transit time required to deliver the product between the Aquafilter warehouse and the purchaser. If shipment is delayed due to any cause beyond the control of the Aquafilter; Aquafilter holds the right of discretion to the goods. Including but not limited to storage and handling; if necessary, at the risk and expense of the buyer. Aquafilter disclaims any subsequent liability in this regard. All transport operations, insurance, customs, local tax on goods, handling, and jobsite delivery are at the liability, expense and risk of the buyer, which is responsible to check the shipments upon arrival. If the goods are shipped by Aquafilter the shipment will be collected, at the lowest price, unless expressly requested by the purchaser, and, in any case, under the full liability of the purchaser. Disposable packaging shall not be taken back. Reusable packaging if applicable is to be returned to Aquafilter by the Customer free of charge. Aquafilter shall invoice reusable packaging if this is not returned within a period of no longer than 4 weeks after the delivery. The customer should confirm receiving the goods with signed and stamped shipping document (f.e. CMR), without, will be charged with VAT tax. All shipments must be inspected for damages and counted for shortages at the time of delivery. Freight claims must be made immediately and directly to the freight carrier. Aquafilter will not be held responsible for breakage or shortage after products are accepted from common carrier. Any damage or discrepancy must be noted immediately and reported to Aquafilter within 3 days of receipt of merchandise or claim will not be accepted. Aquafilter will answer to all claims within 14 working days, from the day of receiving the claim. Terms are FOB Aquafilter warehouse Lodz Poland.

## DELAYS IN SHIPPING (FORCE MAJEURE)

The purchaser shall not hold Aquafilter responsible for any delay or for any damages suffered by the purchaser by reason of delay due to fires, strikes, riots, acts of god, priorities, government orders or restrictions, delays in transportation, delays by suppliers of materials or parts, inability to obtain necessary labor, or other causes beyond the control of Aquafilter, Aquafilter suppliers and subcontractors. In the event of such delay, (a) the time for Aquafilter performance shall be reasonably extended; (b) both parties shall take reasonable steps to adjust all affected dates in subsequent order; and (c) a purchase price adjustment shall be made for additional costs incurred by Aquafilter. Aquafilter is released automatically from any commitments relating to delivery times under the following conditions:

- 1) if the purchaser is non-compliant with the payment terms,
- 2) if the information furnished by the buyer will not arrive in due course,
- 3) in the event of force majeure; Aquafilter will keep the buyer informed, in a timely manner, if any of the forgoing events should occur

## WARRANTIES

Aquafilter makes no representations or warranties, except that Aquafilter warrants that all goods manufactured by it shall be free from material defects in material and workmanship for a periods of one (1) year to five (5) years (depending on product line – please check warranties for each product as specify on technical specifications) from the date of shipment to the purchaser. If within such periods, goods shall be proven to be materially defective to Aquafilter's reasonable satisfaction, then such defective goods shall be repaired or replaced, at Aquafilter sole discretion. Such corrections or replacements shall constitute a fulfillment of all liabilities in respect of such goods. The warranty for all goods sold by Aquafilter but manufactured by others shall be the warranty provided by such manufacturer for such goods. Aquafilter shall take all reasonably commercial efforts (other than the payment of money) to provide the manufacturer's warranty to purchaser.

The foregoing warranties are exclusive and are in lieu of all other express and implied warranties whatsoever (either in fact or by operation of law) including but not limited to implied warranties of merchantability and fitness for a particular purpose or otherwise. Aquafilter is not liable for damage to goods, property or persons arising out of improper installation of such goods, modification, and repair or tampering by anyone other than Aquafilter or Aquafilter authorized personnel of such goods; or utilization of the goods under conditions which exceed specifications for such goods. The parties expressly agree that the limitations of incidental and consequential damages set forth herein are agreed allocations of risk and shall survive the determination of any court of competent jurisdiction that any remedy herein fails of its essential purpose. The warranty does not apply to replacements or operations resulting from normal wear and tear of equipment and cartridges, damage or accidents caused by negligence, lack of supervision or maintenance, and defective use of equipment. Custom work and repairs of equipment are not covered under warranty. Aquafilter shall have no liability to any person for punitive, indirect, special, incidental, contingent or consequential damages of any description or loss of use, revenue or profits, whether arising out of warranty or other contract, negligence or other sort, or otherwise.

## PAYMENT TERMS

Payment is due from date of invoice in U.S. or EURO funds according to the terms on each invoice. Payment shall be made by way of a bank remittance. The receipt of payment to Aquafilter shall be decisive with regard to the timeliness thereof. Once the payment deadline has expired, the Customer shall be deemed in default. In the event of delayed or deferred payment, Aquafilter shall be entitled to charge interest on past due balances at the rate amount 24% per annum or the respective applicable statutory interest rate on default. Purchaser shall be liable for Aquafilter costs of collection, including, without limitation and reasonable attorneys' fees. Any delay in payment entitles Aquafilter to suspend performance of the current contract without suspending the payment of the debt. Payment terms given on approved credit only. Credit will not be extended to accounts with poor payment history. Without approved credit, orders are shipped on a prepaid basis. Large orders and/or special item orders may also be subject to a down payment. OEM and special orders are on 100% prepaid basis. Customers are required to pay all invoices in full within terms. Short or partial payments on invoices are not acceptable.

## RETENTION OF OWNERSHIP

Aquafilter retains title and right of ownership to the items of delivery until all payments from the business relationship with the Customer have been received, until full payment of the principal and interest is made. If the purchaser should fail to pay the price on the agreed upon date, then Aquafilter may repossess the goods and the sale will be cancelled automatically if the Aquafilter sees fit to do so. Aquafilter liability ceases upon removal of goods from our workshops or our subcontractors' workshops. In case of non-payment, then Aquafilter reserves the right to repossess the unpaid goods at the purchaser's expense and to claim, in addition, for the buyer to pay amount of damages for the depreciation of the goods in the amount of 2.5% for every month the purchaser was in possession of the goods. A quote will be made for returning modified goods to their original condition, the amount of which will be deducted from the value of the new product, without cancelling the effect of depreciation. In the event that the Customer acts in breach of the contract, in particular, of nonpayment of the due purchase price, Aquafilter shall be entitled to withdraw from the contract in accordance with the statutory regulations and/or demand that the items of delivery be returned on the basis of the retention of title and resell it. Any demand for the return of goods shall not be deemed to include a simultaneous declaration of withdrawal; on the contrary, Aquafilter shall be entitled to merely demand the return of the items of delivery and reserve the right to withdraw from the contract. In the event that the Customer does not pay the due purchase price, Aquafilter may only assert such rights if Aquafilter has previously and unsuccessfully set the Customer a reasonable deadline for payment or if the setting of such a deadline is superfluous in accordance with the statutory regulations. An application to commence insolvency proceedings concerning the assets of the Customer shall entitle Aquafilter to withdraw from the contract and to demand the immediate return of the items of delivery.

## PRICES AND QUOTATIONS

The minimum purchase order is € 2500.00 or \$3000.00. Below that amount, a fee of € 50.00 or \$75.00 shall be charged, except for the first – trial order. Orders are accepted with understanding that the goods will be billed at price in effect at time of order, unless otherwise specified in approved written quotation by Aquafilter. The price and performance of this order is subject to resource availability and costs within the control of Aquafilter at the time of manufacture. Aquafilter reserves the right to cancel or adjust prices and delivery without notice. Any price discrepancy on orders will require a revised purchase order from purchaser. If after submission of a quotation, which is priced in the currency of the country, variations in exchange rates represent a difference of more than 3%, then Aquafilter is no longer bound by the initial quotation, which must be redone. Aquafilter prices are considered firm and final according to the economic conditions on the date of quotation submission. Any manufacturer's tax, retailer's occupation tax, sales tax, excise tax, duty, custom, inspection or testing fee, or other tax, fee or change of any nature whatsoever, imposed by any governmental authority on or measured by any transaction between Aquafilter and purchaser, shall be paid by purchaser in addition to the prices quoted or invoiced.

## FREIGHT

All Aquafilter prices are deemed "ex works" in accordance with the Incoterms 2010 plus the valid statutory VAT on the date of invoicing. All additional costs, such as special type packaging, transport, customs duties, support with the execution of customs formalities, taxes, other public duties shall be invoiced separately if apply. Terms of shipment are ex works Aquafilter warehouse Lodz Poland. Purchase orders must specify preferred carrier or order will be shipped via Aquafilter's discretion, subject to availability, and pre-payment of such added to the invoice. If additional services are requested, charges are the responsibility of the customer. The customer must advise what day and time they will pick up the order. A completed order will be held for a maximum of 5 business days. A restocking charge (5 Euro per day per 1 pallet/package) may be assessed to any orders that are not picked up within the required time frame. Orders can be picked up Monday – Friday from 9:00 – 16:00. Expediting fees may apply to same day pick ups and drive in / walk in orders.

## ORDER CANCELLATION

Purchaser may cancel orders only upon reasonable advance written notice, with agreement of cancellation by Aquafilter, and upon payment to Aquafilter, in addition to Aquafilter cancellation charges which include, but are not limited to all costs and expenses incurred, and to cover commitments made (including any raw materials or other commitments), by the Aquafilter and a reasonable profit thereon. Aquafilter determination charges shall be conclusive.

## ENGINEERING AND DESIGN CHANGES

Aquafilter reserves the right to make design, specification and/or engineering changes to its products without prior notification unless a written agreement between Aquafilter and purchaser exists as to the design, specification and/ or engineering of the product. Title to, and full and unrestricted ownership, right to use all designs, specifications and engineering information provided by Aquafilter shall at all times be and remain vested in Aquafilter.

## DOCUMENTS - TECHNICAL INFORMATION - TERMS OF USE AGREEMENT – MEDIA (Artwork Images, Logos, Product Names, Slogans, Drawings)

**ACCEPTANCE OF AGREEMENT.** You agree to the terms and conditions outlined in this Terms of Use Agreement ("Agreement") with respect to our Aquafilter Media Files (AMF). This Agreement constitutes the entire and only agreement between Aquafilter and you, and supersedes all or any prior or contemporaneous agreements, and understandings with respect to the (AMF). No media files can be used until you receive a signed copy of this agreement from Aquafilter.

Right. The artwork, graphics, images, photos, logos, product names and slogans and other material related to AMF are protected under applicable copyrights, trademarks and other proprietary (including but not limited to intellectual property) rights. The copying, redistribution, use or publication by you of any such matters or any part of the AMF is strictly prohibited. You do not acquire ownership rights to any AMF or other materials provided.

Trademarks. Aquafilter, Aquamarket, H200, Excito, Bacinix, Shopure and any others are either trademarks, registered trademarks or trademarks licensed for use of Aquafilter.

**Limited Right to Use.** The use of AMF is limited to printing only. Unless otherwise Aquafilter grants you only a limited, nonexclusive agreement of use and does not authorize distribution, assignment, sublicense, sale, preparation of derivative works or other use. No part of any AMF may be reproduced in any form or incorporated into any information retrieval system, electronic or mechanical, including web pages other than for your personal corporate internal use without written permission granted by Aquafilter authorized personnel. All advertisements, sales sheets, catalog pages, informational newsletters or any other form of communication containing all or part of the AMF must be approved by Aquafilter prior to use, printing and distribution. Aquafilter reserves the right for permission of use and can require cease of use and deletion of previously approved media files.

**Editing, Deleting and Modification.** We reserve the right in our sole discretion to edit or delete any AMF and enforce the use of Specific AMF or represent specific products and logos.

**Indemnification.** You agree to indemnify, defend and hold Aquafilter, attorneys, staff and affiliates harmless from any liability, loss, claim and expense, including reasonable attorney's fees, related to your violation of this Agreement.

**Nontransferable.** Your right to use the AMF is not transferable.

**Miscellaneous.** This Agreement shall be governed by and construed in accordance with the laws of Poland (without regard to conflict of law principles).

The language in this Agreement shall be interpreted as to its fair meaning and not strictly for or against either party. All legal proceedings arising out of or in connection with this Agreement shall be brought solely in Poland. You expressly submit to the exclusive jurisdiction of said courts and consents to extra-territorial service of process. Should any part of this Agreement be held invalid or unenforceable, that portion shall be construed consistent with applicable law and the remaining portions shall remain in full force and effect. To the extent that anything in or associated with the AMF is in conflict or inconsistent with this Agreement, this Agreement shall take precedence. Our failure to enforce any provision of this Agreement shall not be deemed a waiver of such provision nor of the right to enforce such provision. **OEM Product:** Any documents submitted in connection with an OEM quote or execution of a sale shall remain the Aquafilter exclusive intellectual property. Said items may only be used for fulfilling the order and shall in no circumstances be disclosed to third parties, copied or executed without the express written permission of the Aquafilter. If no order results from the proposal, the technical documents included for the quote must be returned upon request. However, in such a case, the purchaser is still liable for ensuring non-disclosure compliance. Aquafilter reserves the property rights and copyrights to samples, cost estimates, drawings, calculations, and other information of a material and immaterial nature, which is not generally accessible —including in an electronic form. The Customer shall require the express written consent of Aquafilter before forwarding these to third parties.

## RETURNED GOODS

Authorization and shipping instructions for the return of any salable goods must first be obtained by the purchaser from Aquafilter, otherwise shipment will be refused. The return of product is limited to no longer than one (1) year from the date of purchase, verified by invoice. Goods built to a customer's or purchaser's specifications (OEM) or special ordered cannot be returned for credit. Any product returned in anything but sellable condition will be refused and returned to the purchaser at the purchaser's cost. A 30% restocking charge will be deducted from our credit memorandum on the returned goods. Transportation charges on the returned goods must be prepaid and are the responsibility of the purchaser. Any cost in excess of 30% restocking charge incurred in placing the goods in sellable condition will be charged to the purchaser by a corresponding deduction from the allowed credit. Goods returned for credit must be carefully packed so as to reach Aquafilter's location without damage. If the return of our goods is made necessary through some fault of the Aquafilter, full credit will be allowed, including whatever transportation expense the purchaser may have incurred, provided that the return has been authorized by Aquafilter in writing and is in accordance with the packing and shipping instructions.

## JURISDICTION – DISPUTES

If the Customer is a merchant, legal entity under public law or holder of special funds under public law, the place of jurisdiction shall be the court of jurisdiction for the registered seat of Aquafilter. However, Aquafilter shall be entitled to file an action against the Customer at its general place of jurisdiction.

In case of continuing disagreement about the execution of an order, the parties undertake to use, first, an arbitration court procedure by more than one arbitrators appointed. In any event, if such a procedure leads to unforeseen difficulties, only the commercial court of Lodz will have jurisdiction, and that the applicable law is Polish law. For any additional dispute the International Chamber of Commerce (ICC) shall have jurisdiction. All disputes arising under these conditions will be finally settled under the Rules of the International Chamber of Commerce (ICC) located in EU.

## GENERAL INFORMATION

Aquafilter is not bound to the prices, information in catalogues, advertising leaflets and fees. The Aquafilter reserves the right to make changes to the arrangement, shape, size or material of the devices, equipment parts the drawings and descriptions of which are found in printed matters and advertisements. Any commitments made by Aquafilter representatives or employees are subject to confirmation directly from Aquafilter. The purchaser acceptance of our acknowledgment of order implies acceptance of Aquafilter terms of sale. The sales contract is only valid if Aquafilter expressly acknowledges acceptance of the customer's order. In the event of any discrepancies between the terms of the English and other language version, the English language version shall prevail in all cases. In the event that a provision or part of a provision of these Terms and Conditions is or shall become invalid, this shall have no effect on the validity of the remaining contract. The contractual parties are obliged to replace the invalid provision with a provision that comes as close as possible to the economic outcome of the invalid provision. All technical errors by Aquafilter are subject to correction. The general information described above supersedes any previously written terms and conditions that appear in company documents. Any changes made to our general information must be authorized by Aquafilter in writing.

These Terms and Conditions of Sale, supercedes any and all preceding versions, language or text.

2014



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Water Filtration Systems

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



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Water Filtration Systems

## **PRODUCT RETURN POLICY (RMA)**

Any item to be returned requires prior authorization from Aquafilter customer service department, email: [sales@aquafilter.com](mailto:sales@aquafilter.com), phone (+48 42 6131910, +48 42 6131911) or by fax (+48 42 6559970).

Requests for returns of merchandise (other than materially defective merchandise) must be within one (1) year from the date of the Aquafilter invoice date.

The purchaser's order number or Aquafilter invoice number must be provided when requesting the authorization.

Aquafilter reserves the right to deny requested product returns.

Approved returns will be issued a return authorization number RMA from Aquafilter customer service department.

Product returned without prior authorization by Aquafilter will be refused.

Approved returns will be given a return authorization number RMA.

The RMA must be plainly displayed on the outside of the parcel or parcels being returned or packages will be refused.

Product must be returned within sixty (60) days upon issuance of the RMA.

If product is not returned within sixty (60) days, the RMA will be void and any packages returned will be refused.

Items said to be defective will be submitted to Aquafilter Quality Control Department for evaluation and, if determined to be a material manufacturing defect, credit or a replacement will be issued as Aquafilter option.

Items sent out incorrectly by Aquafilter will be credited upon return of the product.

A replacement order will be sent upon request by purchaser.

Items to be returned as a result of over-stock; being incorrectly ordered, on an order cancelled by purchaser, will be assessed a 30% restocking fee and the company sending the returns will be responsible for return freight charges.

All items returned with the exception of goods claimed materially defective; must be in even case lots, in their original packaging, and in new and unused condition.

Any product returned failing to meet the above guidelines will be destroyed with no credit issued.

Any items returned to seller without seller's authorization or an RMA will be refused.

For further questions regarding this policy, contact the Aquafilter Sales Department [sales@aquafilter.com](mailto:sales@aquafilter.com).

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



## **The Clear Choice**

### **Water Filtration Systems**



Made in EU

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Fax: +48 42 6559970,  
sales@aquafilter.com

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