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The Clear Choice
Water Filtration Systems

FCPS5-BL-AB

Hybrid Filter Cartridge Antimicrobial
PP Spun with Carbon Block Cartridge Inside

General Description:

AQUAFILTER FCPS5-BL-AB series are innovative hybrid filter cartridges. They combine the features of both PP spun cartridge and carbon block.

The cartridge consists of two layers. The outer layer is made of PP spun cartridge. The core is made of the carbon block. PP spun is made of high quality polypropylene which conforms to the very strict FDA regulations.

During the manufacturing process antibacterial substance based on silver nanoparticles was added. In order to distinguish this premium product from similar available on the market, a special manufacture process was apply.

All the components were added during the special manufacturing process so they are dispersed evenly in the entire cartridge (in contrast to many competitive products which are only sprayed on the surface).

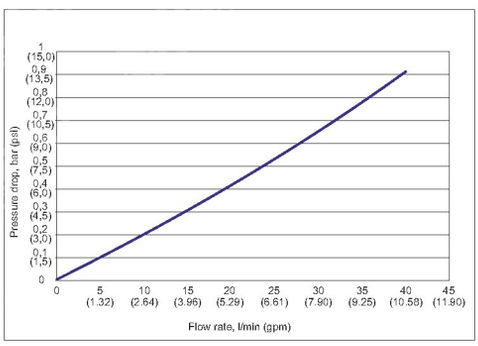
The carbon block core is made of a mixture of high quality bituminous and coconut shell activated carbons. Both of them are FDA compliant. Additionally a special heavy metal removal media was added.

It effectively removes lead, copper, mercury and strontium from water. In case of the carbon block an antimicrobial agent (nanosilver based) was utilized as well so the entire hybrid cartridge has antimicrobial properties.

FCPS5-BL-AB series cartridges provide high quality depth filtration. They remove sediments (sand, silt, rust and suspended solids). Carbon block effectively removes free chlorine and its derivatives and other organic substances improving taste and aroma of water.

The cartridge can also become impenetrable barrier for waterborne microbes. Bacteria are hold inside the cartridge and cannot get through due to the porous structure of it. Nanosilver-based active agent prevents from microbiological growth. **FCPS5-BL-AB** effectively protects drinking water supplying systems. Cartridges are dedicated for cold potable water filtration.

Made in EU



Features:

- High quality
- Competitive Pricing
- **BACINIX™** nanosilver technology, providing antibacterial protection
- Made of safe, food grade materials
- Contains a mixture of bituminous and coconut shell carbons
- Removes heavy metals (Pb, Cu, Hg, Sr, Cs)
- Removes chlorine, its derivatives and organic substances
- Softens water (improving scale reduction)
- Improves taste and odor of water
- Small orders accepted
- Made in EU with High Quality materials
- Component NSF Certified and FDA CFR Title 21 Compliant

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.

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

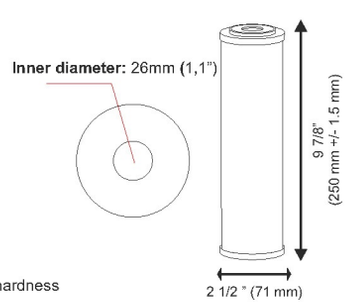
1. Nanosilver attacks bacteria cell walls – they are composed of aminoacids. Silver nanoparticles change their structure (create disulfide bridges between aminoacids). It disrupts so called respiration chain. Bacteria losses its ability to gaseous exchange (breathe) which lead to its death.
2. Nanosilver can penetrate cell wall and lead to its 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. Unfortunatelly 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 ensymes. Disruption of metabolic processes prevents cell growth.

CAT #	Size	Micron	Filter life*		
			liters	galons	months
FCPS5-BL-AB	9 7/8" x 2 1/2" 250 mm (+/- 1.5 mm) x 71 mm	5 µm	12.920	3.714	6 - 12

[1] informations are under preparation.
* filter cartridge lifetime based on contamination level of potable water.

Specifications:

Filter media:
Outer layer: PP + ANTIMICROBIAL AGENT,
Inner Core: Mixture of bituminous AC, NSF approved coconut shell AC zeolite, ANTIMICROBIAL AGENT
Min. feedwater temp. 2°C (35° F)
Max. feedwater temp. 80°C (176°F)
Nominal micron rating: 5
Lengths: 10"
Outer diameter: 2 1/2"
Inner diameter: 1,1"
Contaminant Removal: Sediments, chlorine, VOC's, heavy metals, reduces water hardness
End caps: PP + ANTIMICROBIAL AGENT
Gasket: Silicone
Avg. Efficiency: 90%



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 6 or 12 months (depending on water quality).

LIMITED WARRANTY: AQUAFILTER warrants that this product is free from defects in materials and workmanship. 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 and water quality.

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