



**The Clear Choice**  
Water Filtration Systems

# FCPS-AB

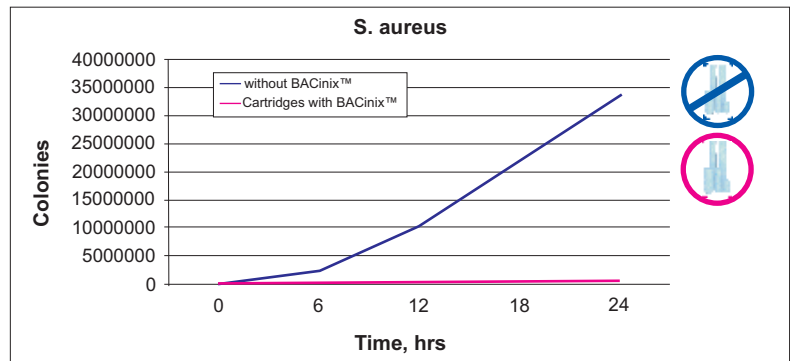
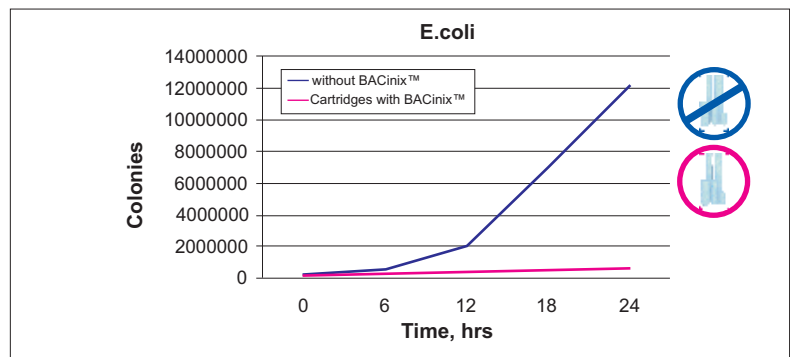
## Melt-blown Antimicrobial/Antibacterial Polypropylene Filter Cartridges



Made in EU



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



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.

### General Description:

These durable melt-blown water filter cartridges are the only cartridges available treated with Antimicrobial/Antibacterial **nanosilver BACINIX™** technology.

This technology is new to the water filter industry and **Aquafilter** is the only firm offering this advanced technology within a wide range of product lines.

Antimicrobial/Antibacterial technology has been used in the medical industry and is branching out into water treatment industries.

This technology helps destroy bacteria as well as inhibit the growth of mold.

The blue color of the filter indicates that it has been treated for additional safety.

The **Aquafilter** range of melt-blown cartridges have multiple fibre zones.

These multi-fiber zones provide a graded pore structure throughout the filter's depth.

Our filter cartridges have been designed to capture and retain contaminants throughout the entire cross section of the filter.

The multiple fiber zones give our filter cartridges a major competitive advantage over other melt-blown filters with fewer pore size gradients in their structure.

The new, modern, automatic manufacturing equipment used to produce our wide range of melt-blown cartridge filters delivers consistently efficient filters at low costs.

Antimicrobial/Antibacterial Filter Cartridges Helps Keeping Your Drinking Water Clean, Clear & Safer!

Aquafilter Cartridges utilize **nanosilver BACINIX™** technology. Combining inert organic materials with **nanosilver BACINIX™** into our filters, enables our cartridges to help eliminate bacteria and inhibit growth of destructive fungus, mold and mildew.

Unlike competitive "treated media" products, Aquafilter cartridges will continue to provide safety and protection for customers while outlasting the competition. **Nanosilver BACINIX™** technology has been effective against more than 700 strains of bacteria, fungi and molds in a laboratory environment.

Antimicrobial/Antibacterial melt-blown nominal rating sediment filter cartridge available in 5", 10", 20", 10"BB, 20"BB size 5 and 20 micron rating.

Generally used with all standard size filter housings.

Safe, Low cost pre-filtration cartridge with Antimicrobial/Antibacterial Protection.

### Features:

- High quality
- Competitive Pricing
- **BACINIX™** nanosilver technology, providing antibacterial protection
- Antimicrobial/Antibacterial cartridges with unique blue color media impregnated with **nanosilver BACINIX™**
- Removal ratings from 5 to 20 micron
- 90% efficiency at stated nominal micron rating
- Multi layer construction gives true graded depth filtration, high dirt holding capacity and long service life
- Constructed from polypropylene with **nanosilver BACINIX™**
- Made in EU with High Quality materials
- Component NSF Certified and FDA CFR Title 21 Compliant





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www.aquafilter.com

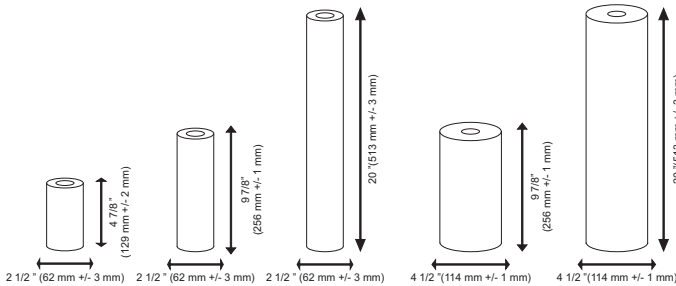
# FCPS-AB

## Melt-blown Antimicrobial/Antibacterial Polypropylene Filter Cartridges

CAT #	Size	Weight	Micron	Max. Flow		Filter life*		
				lpm	gpm	liters	galons	months
FCPS5-5-AB	4 7/8" x 2 1/2" 129 mm (+/- 2 mm) x 62 mm (+/- 3 mm)	PR'	5 µm	10	2.65	8,000	2,115	5 - 8
FCPS20-5-AB	4 7/8" x 2 1/2" 129 mm (+/- 2 mm) x 62 mm (+/- 3 mm)	PR'	20 µm	10	2.65	8,000	2,115	5 - 8
FCPS5-AB	9 7/8" x 2 1/2" 256 mm (+/- 1 mm) x 62 mm (+/- 3 mm)	120 g (+/- 5 g)	5 µm	20	5.29	12,000	3,170	5 - 8
FCPS20-AB	9 7/8" x 2 1/2" 256 mm (+/- 1 mm) x 62 mm (+/- 3 mm)	120 g (+/- 5 g)	20 µm	20	5.29	12,000	3,170	5 - 8
FCPS5-L-AB	20" x 4 1/2" 513 mm (+/- 3 mm) x 114 mm (+/- 3 mm)	PR'	5 µm	30	7.09	16,000	4,220	5 - 8
FCPS20-L-AB	20" x 4 1/2" 513 mm (+/- 3 mm) x 114 mm (+/- 3 mm)	PR'	20 µm	30	7.09	16,000	4,220	5 - 8
FCPSM10B-AB	9 7/8" x 4 1/2" 256 mm (+/- 1 mm) x 114 mm (+/- 1 mm)	PR'	5 µm	40	10.5	18,000	4,760	5 - 8
FCPS20M10B-AB	9 7/8" x 4 1/2" 256 mm (+/- 1 mm) x 114 mm (+/- 1 mm)	PR'	20 µm	40	10.5	18,000	4,760	5 - 8
FCPS5M20B-AB	20" x 4 1/2" 513 mm (+/- 3 mm) x 114 mm (+/- 1 mm)	PR'	5 µm	60	15.87	24,000	6,340	5 - 8
FCPS20M20B-AB	20" x 4 1/2" 513 mm (+/- 3 mm) x 114 mm (+/- 1 mm)	PR'	20 µm	60	15.87	24,000	6,340	5 - 8

\*information is under preparation.

\* filter cartridge lifetime based on contamination level of potable water.

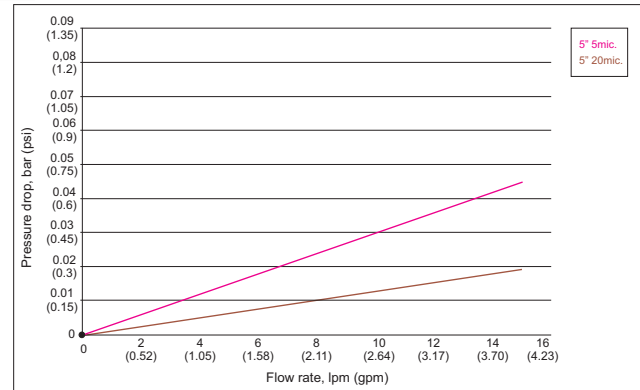


### Specifications:

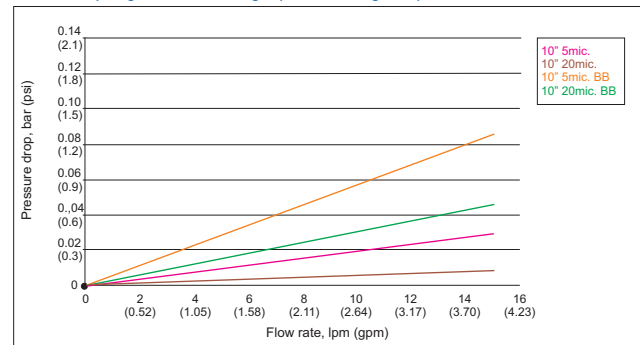
Filter media: Pure PP + ANTIMICROBIAL AGENT  
 Min. feedwater temp. 2°C (35°F)  
 Max. feedwater temp. 80°C (176°F)  
 Nominal micron rating: 5, 20 micron  
 Lengths: 5", 10", 20"  
 Outer diameter: 63.5, 114.3 mm (2 1/2", 4 1/2")  
 Inner diameter: 28 mm (1.1")  
 Avg. Efficiency: 90%



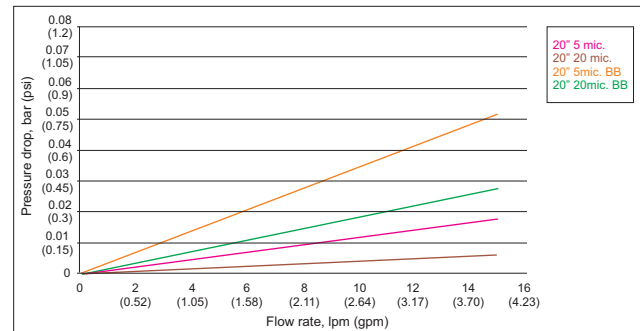
Pressure drop diagram for 5" cartridges



Pressure drop diagram for 10" cartridges (include 10" Big Blue®)



Pressure drop diagram for 20" cartridges (include 20" Big Blue®)



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 microorganisms 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 loses its ability to gaseous exchange (breathe) which lead to its death.
2. Nanosilver can penetrate cell wall and lead 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 the inside of the cell binds with various enzymes. Disruption of metabolic processes prevents cell growth.

### 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 5 or 8 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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### Aquafilter Manufacturing Facilities



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