

LEGIO.inlinefilter

Microfiltration + Activated Carbon



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Microfiltration membrane cartridge with activated carbon

Activated Charcoal in Action

Due to its porous structure, activated carbon can bind chemical contaminants in the flowing water to its extremely large surface area. These include chlorine, pesticides, pharmaceutical residues, aromatic hydrocarbons and heavy metals. The filter has a special, certified activated carbon for point-of-use applications directly at the sampling points. It also improves the taste and odor of the water.

Membrane Technology in Action

In water supply pipelines, high levels of microbiological contamination can occur. Simple disinfection measures usually do not provide sufficient protection for the user. In order to guarantee perfect water quality at all times, LEGIO products consist of tubular membranes with billions of microscopic pores small enough to retain bacteria and germs. However, these pores are large enough to allow the water to pass through with the beneficial vital minerals it contains. The membrane cartridge, with its outside-in technology, offers the assurance that until the membrane is blocked, e.g. by sediments, the high retention value for bacteria is maintained.

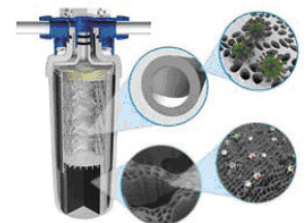
Benefits

- Removal of bacteria and germs
- Reduction of chemical impurities
- Taste and odor improvement
- Removal of chlorine and heavy metals
- Highly robust outside-in membranes
- Quick connect couplings for easy and hygienic handling

Applications

- POU drinking water filtration, e.g. under the sink
- Office coffee & water, vending applications
- Food Service
- Gastronomie-Gewerbe

Safe, simple, intelligent!



Infectious Disease Control

Inlinefilter

Specifications of the Filter Cartridge with Activated Carbon ⁽¹⁾


Modell	Product	Dimensions	Weight	Connections	Rated capacity max.	Rated service flow	Recommended service life ⁽¹⁾
24.2.401-04 / QCMFACRE	INLINE Water filter	240 x 88 mm	500 g	2 x 3/8" Female thread	3.800 L	3,8 Lpm	6 months

(1) Product performance is dependent on incoming water conditions

Filter head required for the initial equipment 3/8" IG / 3/8" IG

Article no. 24.2.901

Materials and Technical Data

Filter Media Max. Operating pressure Operating temperature Storage Handling	Capillary microfiltration tubular membranes + Activated Carbon Block 6 bar 0 – 40°C (32-104 °F) - Keep dry during storage; protect against freezing after first use - Handle with care; do not expose to shocks - Disposable product; discard as regular waste - Install filter head horizontally. Insert cartridge vertically (hanging) - Installation as close as possible to the extraction point - Before first use flush to drain for 10 minutes at full flow - Replace cartridge after 6 months at the latest when capacity limit is reached or flow rate is reduced - 1.200 ppm total during approved operating time	
Installation, Operating & Maintenance		
Chlorine Exposure		

This system was tested according to NSF/ANSI 42 rules for the reduction of the substances listed below. The concentration of the indicated substances present in the water entering the system was reduced to the concentration rate, which, according to NSF/ANSI 42, is below the allowable limit for water exiting the system.

Substance	Inlet concentration	Reduction requirement	Total reduction
Chlorine	2.0 mg/L ± 10%	≥ 50%	> 83%
Germes	Minimum 50.000/L	99.95 %	> 99.99 %

Actual performance may vary as testing was performed under standard laboratory conditions.

Performance Test and Certification:

Tested by VITENS Laboratories, Netherlands

Biological retention:

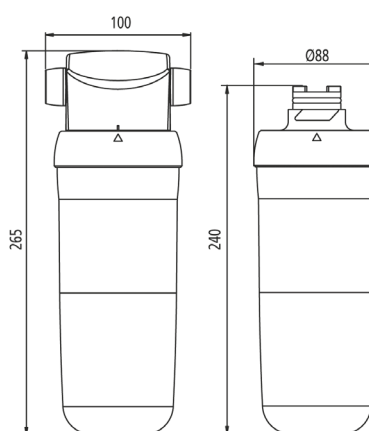
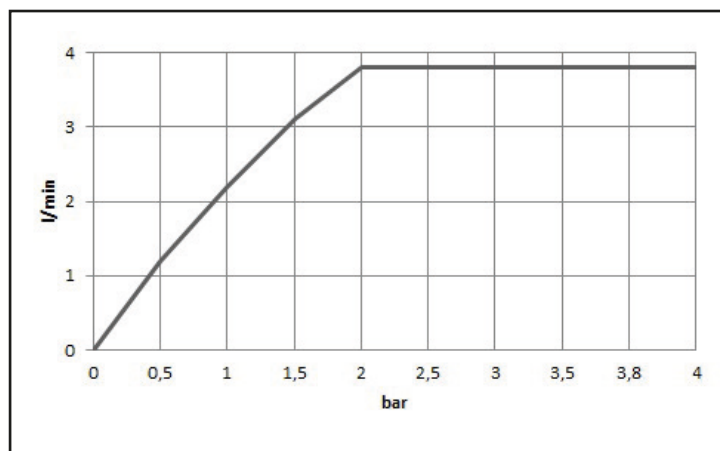
Bacteria: > 99.9999% (Klebsiella T.)

Internal manufacturer test at 2 Lpm for 3,800 L

Chemical reduction:

Herbicides & Pesticides: > 82% (Atrazine & 2.4 D)

Drug Residues: > 94% (Ethinylestradiol)



Disclaimer:

The information and data provided in this document are based on our general experience and are believed to be correct. They are given in good faith and are intended to provide a guideline for the selection and use of our products. Since the conditions under which our products may be used are beyond our control, this information does not imply any guarantee of final product performance and we cannot accept any liability with respect to the use of our products. The quality of our products is guaranteed under our conditions of sale. Existing (industrial, intellectual or other) property rights must be observed.