

## PENTEK® MICROGUARD® SERIES MEMBRANE FILTER CARTRIDGE

IDEAL FOR POINT-OF-USE APPLICATIONS



Pentair® Pentek® MicroGuard™ Series membrane filters provide safer and cleaner drinking water without incorporating chemicals into the media or adding chemicals to the filtered water.

The MG-10MCB is uniquely designed with integral carbon block and sediment pre-filtration for the reduction of chlorine taste & odor and for providing extended life of the internal membrane element. This cartridge has 2.5 times greater filtration surface area than some anti-microbial carbon blocks, and operates at a higher flow rate with lower pressure drop. This makes the MG-10MCB ideal for Point-of-Use (POU) applications.

The MicroGuard cartridges do not require USEPA registration and their effectiveness is not susceptible to common substances normally found in some waters.

### FEATURES/BENEFITS

Reduces particles as small as 0.15 micron in size by mechanical means

Membrane filtration provides 99.9999% reduction of bacteria and 99.9999% reduction of virus by mechanical means\*

Combined carbon block and sediment pre-filtration for extended life and chlorine taste & odor reduction

Utilizes highly asymmetric polyethersulfone membrane with proprietary hydrophilic formulation for immediate wetting and high flow

Double O-ring endcap seals for absolute sealing in Pentair Pentek 3G housings

No electrical power required  
Retains natural mineral content of water

### SPECIFICATIONS

Filter Media – Polyethersulfone

Endcaps – Top: Polystyrene

Bottom: Polypropylene

Membrane Assembly – Polystyrene, epoxy resin

Carbon Pre-filter - Activated carbon, synthetic polymeric fibers & binders

Netting – Polyethylene

O-ring Seals – EPDM

Temperature Rating – 40-140°F (4.4-60°C)

\*Based on manufacturer's internal testing.  
EPA EST. NO. 086074-NH-001

## RECOMMENDED OPERATING CONDITIONS

| MODEL #  | PART #    | PRESSURE DIFFERENTIAL   | STORAGE TEMPERATURE RANGE | pH RANGE | OPERATING PRESSURE RANGE       | WATER TURBIDITY |
|----------|-----------|-------------------------|---------------------------|----------|--------------------------------|-----------------|
| MG-10MCB | 255420-43 | 88 psi<br>(6.1 bar) max | 35-104° F<br>(2.0-40° C)  | 2-12     | 5-88 psi<br>(0.35-6.1 bar) max | <1 NTU          |

## SPECIFICATIONS AND PERFORMANCE

| MODEL #  | PART #    | MAXIMUM DIMENSIONS                 | RATING (ABSOLUTE)* | INITIAL ΔP (PSI) @ FLOW RATE (GPM)*    | ESTIMATED CAPACITIES**           |
|----------|-----------|------------------------------------|--------------------|----------------------------------------|----------------------------------|
| MG-10MCB | 255420-43 | 2.88" x 10.28"<br>(73 mm x 261 mm) | 0.15               | 11 psi @ 1 gpm<br>(0.76 bar @ 3.8 Lpm) | 200-600 gallons<br>(757-2,271 L) |

\*Based on manufacturer's internal testing.

\*\*Capacities may vary depending on local water quality, type of pre-filtration and acceptable minimum flow rate.

Not certified for sale in California, Iowa, or Wisconsin

NOTE: Cartridge not intended for converting wastewater or raw sewage into drinking water

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.



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