

# CRB Series

## Filter Cartridges for Cyst Reduction



### Description

- Absolute rated one micron filter media removes cyst sized particles for safe, cyst-free drinking water
- Pleated polypropylene filter media provides more surface area for longer filter life and increased particle removal
- FDA listed materials for use in potable water and liquid food applications
- End caps, center tubes and media are thermally bonded as one integral component for added strength and to provide superior end sealing



### Independent Lab Validated

To verify the performance of CRB series cartridges Pace Analytical\*, a highly respected independent testing facility, was selected to conduct challenge tests to the NSF 53-2007 protocol for cysts reduction. The NSF 53-2007 protocol consists of two side-by-side systems operating on a 10-minute on / 10-minute off cycle. Polystyrene 3-micron beads were injected after the 8th cycle and at 25%, 50% and 75% reduction in flow rate.

Sample Point	Particle Size (Microns)	Reduction
8 <sup>th</sup> Cycle	3	99.92%
25% reduction	3	99.95%
50% reduction	3	99.96%
75% reduction	3	99.95%



\* - Pace Analytical is State Certified (CA, IA, MA, WI). Results are accepted by Water Quality Association (WQA), Underwriters Laboratory (UL) and Canadian Standards Association (CSA) for product label or seal programs.

### Specifications

- ⦿ **Micron rating** - One micron absolute for Cryptosporidium and Giardia cysts.
- ⦿ **Filter media** - Meltblown polypropylene inner layer with outer layers of polypropylene scrim material for support
- ⦿ **Temperature** - 140°F (60°C) max\* \*  
Temperature limits vary and depend on pressure and time under load.
- ⦿ **Center tubes** - Rigid PVC with perforations or molded polypropylene
- ⦿ **Netting** - Polypropylene netting standard for 2-3/4" O.D.; 10" and 20" cartridges use polyethylene netting.
- ⦿ **Flow Rates** - Up to 0.5 US GPM ft<sup>2</sup> media
- ⦿ **End Caps** - Pliable PVC, sealing surface built in

### Applications

- Commercial / Residential Drinking Water Filtration
- Municipal Drinking Water Filtration
- Reverse Osmosis Pre-filtration
- Desalination Pre-filtration
- Industrial Water Filtration
- Chill Water Loop Filtration
- Food & Beverage Filtration
- Marine /Aquatic Filtration

### Cartridge Selection/Sizing Guide

Model	Micron Rating	Length	Diameter	Recommended Flow Rate for 2 log removal (US GPM)
CR10	1μ absolute	10"	2.5"	1.85
CRB10	1μ absolute	9.75"	4.5"	4.0
CRB20	1μ absolute	20"	4.5"	10.0
CRB3075	1μ absolute	30.75"	7.75"	50.0

**Note:** This publication is to be used as a guide. The data within has been obtained from many sources and is considered to be accurate. Envirogard does not assume liability for the accuracy and/or completeness of this data. Changes to the data can be made without notification. Temperature, Pressure, Flow Rates, Differential Pressures, Chemical Combinations and other unknown factors can affect performance in unknown ways. Determination of suitability of Envirogard products for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. The end user/installer/buyer shall be liable for the product's performance and suitability regarding their specific intended applications. End users should perform their own tests to determine suitability for each application.

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