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Performance Data Sheet



Point of Entry: CMF™ Charged Membrane Filtration Cartridges

Cartridges are used for Stage 1 Filtration/Disinfection for Multi Barrier Disinfection Systems and as stand alone Purification for home, office, business & industrial applications.

Replacement Cartridge Part No. RC-CMF2510-5, RC-CMF2520-10, RC-CMF2530-15, RC-CMF-2540-20, RC-CMF-4512-10, RC-CMF-4524-20, RC-CMF-4540-40

Read this Performance Data Sheet and compare the capabilities of this unit with your actual drinking water needs.

Water Testing: If your water has an aesthetic problem - one you can see, taste or smell - your senses are your most reliable resource. If you have read about or suspect volatile organic chemicals, chlorinated by-products or lead contamination you may want to have your water tested. But be careful...water testing can be expensive. A complete analysis of hundreds of contaminant's that may be in water can cost hundreds of dollars, or even thousands of dollars. A betterand lessexpensive alternative is to have your water tested only for common water contaminant's, or for contaminant's you have read about or know are likely to be in your water. Additionally, they may not be as conclusive as you might like, since contaminant levels can vary from day to day and week to week. Taking a specific sample at any given time may yield a falsely good (or bad) result.

Private water supply: Having your water tested may be your only way of knowing for sure what health related contaminant's might be present. Local health departments only test for a limited range of contaminant's like bacteria to approve the well for potable water.

Public Water supply: Which service more that 3/4 of the population in the America are already tested, following state and federal guidelines and law and are available for the asking from your water supply company/utility. These guidelines and laws do not cover every known contaminant that may be affecting your water source.

Water the Way you Want It: Many times it is a better investment, both in terms money and peace of mind, to invest in a quality drinking water system that solves a wide range of problems that you may or may not have or know about.

Health Claim Performance Certified by NSF/ANSI Standards 42 and 53. The housing and materials utilized in this design has been tested according to NSF/ANSI 42 and 53 for material safety and structural integrity. The system has been tested by USEPA using protocols developed through collaboration with the USEPA Testing and Evaluation Facility and the EPA Guidance Manuals.

Substance	Influent Challenge Concentration	Total Challenge of Influent	New Cart. Reduction	End of life Reduction
Microbiological Challenges were conducted using live organisms				
Cryptosporidium	>10 ⁶ /L	5x10 ⁶ /L	99.9992%	99.9992%
MS2Bacteriophage	>10 ⁹ /100mL	10x10 ⁹ /100mL	99.5%	>99.9%
Adenovirus-2	>10 ⁶ /L	5x10 ⁶ /L	92.0%	>99%
B Globigii	10 ⁷ /100mL	10 ⁷ /100mL	99.75%	>99.9%
RT Bacteria	10 ⁷ /100mL	10 ⁷ /100mL	99.99%	99.99%
Legionella	10 ⁷ /100mL	10 ⁷ /100mL	99.9%	>99.9%

Note: Total challenge of one liter concentration @10x/100mL

10x10⁶/100mL = 10,000,000 organisms

10x10⁹/100mL = 10,000,000,000 organisms

These extreme challenge levels were used to show the worst case performance on influent water that was chlorine free with other parameters to create the most conservative testing challenges to the system.

Influent Water Quality Guideline for Max Microbial Efficiency:

Turbidity <1 NTU Manganese <0.05ppm
pH 5-9 TDS 30g/L
Iron < 0.3 ppm TSS (total suspended solids) keep as low as possible. Use one of our cartridges that provide fine filtration (<= 1micron) in front of this cartridge for maximum microbial efficiency.

Operating Specifications

Capacity: Replace when pressure differential = 35 psi

*Pressure requirements: 50-125 psi (3.4-8.6 bar), non-shock

*Temperaure: 35-200 degrees F (2-76 degrees C)

*Flow Rate: 5-40 gpm per cartridge, see specification for details on your system.

TESTING LOCATION



USEPA Testing and Evaluation Facility - Cincinnati, OH With analysis and results by: The USEPA National Exposure Research Laboratory (NERL) Cincinnati, Ohio, BCS Lab, FL, Tested to NSF P231

Typical Applications:

Point of Entry for potable water supplies and for temporary use on non-potable water supplies suspected of being potable, excluding converting waste water to microbiologically potable water.

Primary Disinfection for Municipal Water when used with one of our Multi Barrier Drinking Water Disinfection Systems that meets and exceeds the USEPA's Federal Drinking Water regulations. See specifications

Legionella spp & Legionella pneumophila remediation in premise plumbing and cooling towers!

NOTE: It was reported in 2012 that ~25,000,000 people are affected with endemic water borne illness each year in the USA!

This added protection can safeguard your drinking water with a "Final Barrier" against these unknown and difficult to test for microbiological contaminants.

Features of Product

- * **High Flow Rate** 10-40 gpm per cartridge
- * **Exclusive & Sanitary, Quick Change Cartridge**
- * CMF™ Charged Membrane Filtration Sub micron Mechanical filtration & Adsorption for entrapment and filtering of bacteria, virus & cysts.

Antimicrobial.... EPA-registered, FDA-listed and NSF-certified for food and water uses: Silver Zeolite Technology blend throughout the CMF media during production using ion exchange to “manage” the silver release, giving optimum efficacy and longevity.

Integrally Sealed with sonic welding, exclusive sealing design cartridge and dual O-ring sealing into our filter vessels.

*All components and production proudly made in the USA

LIMITED WARRANTY

Waterline Technology warrants this product to be free of defects in workmanship or materials for twelve months from date of purchase or 24 months from date of manufacture. This warranty extends only to the original consumer and does not cover products which malfunction due to neglect or unauthorized modification. Warranty does not cover in-house labor or other labor charges.

The unit must be used in operating conditions that conform to Waterline's recommended design guidelines. This warranty will not apply if the unit has been modified, repaired or altered by someone not authorized by Waterline. We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents or operation contrary to printed instructions, or by the use of accessories or components not recommended in our installation guide.

System is not warranted to perform on a non-potable water source, or a water source which does not meet the conditions for use described in the installation guide or performance data sheet for these products. Water characteristics can vary seasonally or over a period of time. Waterline recommends having your water tested from time to time for any health related type contaminant that you are concerned with or that may be in your water supply before or after this unit.

OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT(AT WATERLINE'S DISCRETION) OF THE FAILED PARTS OF THE SYSTEM, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL OR OTHER DAMAGES.

To obtain warranty performance:

A: Call Technical Service at the number listed below to obtain a RGA (Return Goods Authorization Number). No returns accepted without RGA number and Waterline reserves the right to dispose of any items returned without RGA after 30 days.

B: Return this product with the RGA number clearly marked on the carton to Waterline Technology, transportation or mail prepaid, with an attached statement giving the date and place of purchase, the nature of the defect and your return address, and if possible your telephone number.

C: Upon receipt, Waterline Technology will examine your claim. If this warranty applies, Waterline Technology, at its option will either replace or repair this product.

D: Please send all returns or warranty questions to: Waterline Technology 961 N. Main St., Mansfield, OH 44903 UPS or PO Box 396, Mansfield, OH 44901 via US Mail.

This Warranty is given in lieu of all other warranties expressed or implied, written or oral. No employee, agent, dealer, or other person is authorized to give any warranties on behalf of Waterline Technology. NOTE: Some states do not allow limitation on how long an implied warranty lasts so the above limitation may not apply to you. Similarly some states do not allow the exclusion or limitation of consequential or incidental damages so the above limitation or exclusions may not apply to you. This warranty gives you special legal rights. You may also have other rights which may vary from state to state. Proof of purchase must accompany all merchandise returns if more than 12 months from date of Manufacture.

General Installation/Operation/Maintenance Requirements

See specification for dimensional details

*Recommended to install vertically

*Flush new cartridge at full flow for several minutes until water runs clear.

* Replace cartridge when capacity is reached, or when flow becomes too slow, but at least once per year.

Other Notices

*Installation instructions, parts and service availability, and standard warranty included with each system.

* This system must be maintained according to manufacturer's instructions, including replacement of filter cartridge.

Additional important NOTES:

* Do not use with water that is microbiologically unsafe, or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

*The contaminant's or other substances removed or reduced by this water treatment system are not necessarily in your water.

*Check for compliance with state and local laws and regulations.

*System tested under standard laboratory conditions, actual performance may vary.

Buyer _____

Seller _____

Date _____