

HARMSCO®

PFAS

Premium Hurricane® Carbon Cartridges

PFOS/PFAS Removal

Designed for Hurricane® and WaterBetter® filter housings.

Activated Carbon cartridges designed for removal of hazardous PFOS/PFAS contaminants from Potable water sources. The industry's largest carbon block cartridge.

- PFOS/PFAS are a group of man-made chemicals that persist in the environment. These chemicals have been used for decades in fire retardant foams and other fire fighting sprays. The characteristics that make them useful are the reasons they persist in the environment which leads to harmful buildup in humans & animals



Performance of carbon block core validated by the U.S. EPA

HC/170-AC-5

Protect Against

- ▶ Increased cholesterol levels
- ▶ Immune system changes
- ▶ Decreased fertility
- ▶ Altered thyroid function
- ▶ Increased risk of certain types of cancer
- ▶ Changes in learning & behavior of children
- ▶ Abnormal changes of developing fetus

Activated Carbon Features

- ▶ NSF/ANSI/CAN Standard P473 Tested*
- ▶ NSF/ANSI/CAN Standard 61 Certified
- ▶ Flow rates up to 15gpm for maximum PFOS/PFAS removal per cartridge
- ▶ Solutions offered with up to 1,400,000 gallons of filtration capacity between cartridge change-outs (HUR 16X170FL)



Certified to NSF/ANSI/CAN Standard 61



HC/40-AC-5

HC/90-AC-5



Firefighters using fire retardant foam containing PFOS/PFAS



HARMSCO® Filtration Products



Made in USA

Premium Hurricane® Carbon Cartridges

Specifications

- ▶ **Carbon:** high performance extruded activated carbon block
- ▶ **Outer layer:** 5 micron nominal pleated Polyester-Plus™ media
- ▶ **Center tubes:** PVC, rigid and perforated
- ▶ **End caps:** Plastisol (pliable PVC) Dual Durometer
- ▶ **Directional flow:** radial (outside to in) for low pressure drop
- ▶ **Temperature:** rated to 125°F (52°C)



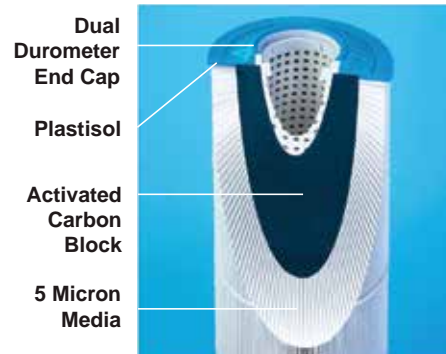
Performance of carbon block core validated by the U.S. EPA

Cartridge Selection/Sizing Guide

7-3/4" O.D. Hurricane® Carbon Cartridges

Cartridge Length

Cartridge Length	Product Code	Nominal Micron Rating	(sq.ft.)	Recommended Flow Rate (GPM)	Min. Carbon Content (lbs)	Capacity
9-5/8"	HC/40-AC-5	5	30	5	2.5	30,000 gallons
19-1/2"	HC/90-AC-5	5	60	10	5	60,000 gallons
30-3/4"	HC/170-AC-5	5	90	15	8	90,000 gallons



Cut-away view

PFOS/PFAS Data Summary - Filter 1

Sample Point	Water Sample Point Effluent 1	Influent Total PFOA + PFOS Concentration (µg/L)	Effluent Total PFOA + PFOS Concentration (µg/L)	Passing Criteria
10 UV	10 UV	1.53	<0.01	Passed
50%	5,000 gallons	1.52	<0.01	Passed
100%	10,000 gallons	1.49	<0.01	Passed
150%	15,000 gallons	1.55	<0.01	Passed
180%	18,000 gallons	1.56	<0.01	Passed
200%	20,000 gallons	1.40	<0.01	Passed
300%	30,000 gallons	1.44	<0.01	Passed
360%	36,000 gallons	1.60	0.04	Passed
400%	40,000 gallons	1.56	0.04	Passed
450%	45,000 gallons	1.58	0.03	Passed
460%	46,000 gallons	1.58	0.08	Test End

Hurricane® XP (HUR 5x170FL)



Certified to NSF/ANSI/CAN Standard 61

PFOS/PFAS Data Summary - Filter 2

Sample Point	Water Sample Point Effluent 2	Influent Total PFOA + PFOS Concentration (µg/L)	Effluent Total PFOA + PFOS Concentration (µg/L)	Passing Criteria
10 UV	10 UV	1.53	<0.01	Passed
50%	5,000 gallons	1.52	<0.01	Passed
100%	10,000 gallons	1.49	<0.01	Passed
150%	15,000 gallons	1.55	<0.01	Passed
180%	18,000 gallons	1.56	<0.01	Passed
200%	20,000 gallons	1.40	<0.01	Passed
300%	30,000 gallons	1.44	<0.01	Passed
360%	36,000 gallons	1.60	0.04	Passed
400%	40,000 gallons	1.56	0.06	Passed
450%	45,000 gallons	1.58	0.03	Passed
460%	46,000 gallons	1.58	0.12	Test End



Hurricane® HP series

* Test through IAPMO QFT Laboratory, LLC. to NSF/ANSI/CAN Standard P473

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. Harmsco 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. **Limited Warranty:** Harmsco warrants their products to be free of material and workmanship defects. Determination of suitability of Harmsco 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.



HARMSCO® Filtration Products

7169 49th Terrace North, Riviera Beach, FL 33407
(561) 848-9628 • Toll-free: (800) 327-3248 • Fax: (561) 845-2474 • E-mail: sales@harmsco.com

www.harmsco.com



Made in USA

© Harmsco, Inc.

03/20