

# HARMSCO®

## WB WaterBetter® Filter Housings

*Single Cartridge Design*

### Lower Operation Cost

- Harmsco® WB WaterBetter® single-cartridge filters deliver high flow, extended filter life, increased dirt holding capacity and ease of operation.



Certified to  
ANSI-NSF 61

Excluding High Temp Cartridges

### Features

- ▶ Patented Up-flow design
- ▶ Electropolished 304 stainless steel housing
- ▶ Fail Safe closure system
- ▶ Three sizes for greater media surface area
- ▶ CPVC standpipe (standard) - stainless steel optional
- ▶ Simple alternative to complex multiple cartridge housings
- ▶ Extensive choice of cartridge micron ratings and media, including carbon block

### Applications

- ▶ Commercial/Residential Drinking Water
- ▶ Cooling Tower Filtration
- ▶ Desalination Pre-filtration (coated option)
- ▶ Surface Water Treatment Rule (SWTR) I, II
- ▶ P.O.E. for household
- ▶ Industrial Waste Water Treatment
- ▶ Reverse Osmosis Pre-filtration
- ▶ Ground Water Remediation
- ▶ Utility Water
- ▶ Ground Water Under Direct Influence (GUDI)



40 90 170

# Cartridge Selection

Sediment Removal, Turbidity Reduction, Chlorine Removal, Taste & Odor Reduction, Cyst Removal, Pre-Filtration, Post-Filtration, Antimicrobial Rated, Absolute Rated, Nominal Rated, 100% Synthetic, Non Potable Use, Course Filtration, High Temperature, All Polypropylene, NSF Listed, Cleanable/ Reusable

## Polyester - engineered for high efficiency, low pressure drops; NSF 61 Listed

HC/40-0.35	Hur 40 Cartridge - 0.35 Micron	●	●					●												●
HC/40-1	Hur 40 Cartridge - 1 Micron	●	●					●												●
HC/40-5	Hur 40 Cartridge - 5 Micron	●	●					●												●
HC/40-10	Hur 40 Cartridge - 10 Micron	●	●					●												●
HC/40-20	Hur 40 Cartridge - 20 Micron	●	●					●												●
HC/40-50	Hur 40 Cartridge - 50 Micron	●	●					●												●
HC/40-100	Hur 40 Cartridge - 100 Micron	●	●					●												●
HC/40-150	Hur 40 Cartridge - 150 Micron	●	●					●												●
HC/90-0.35	Hur 90 Cartridge - 0.35 Micron	●	●					●												●
HC/90-1	Hur 90 Cartridge - 1 Micron	●	●					●												●
HC/90-5	Hur 90 Cartridge - 5 Micron	●	●					●												●
HC/90-10	Hur 90 Cartridge - 10 Micron	●	●					●												●
HC/90-20	Hur 90 Cartridge - 20 Micron	●	●					●												●
HC/90-50	Hur 90 Cartridge - 50 Micron	●	●					●												●
HC/90-100	Hur 90 Cartridge - 100 Micron	●	●					●												●
HC/90-150	Hur 90 Cartridge - 150 Micron	●	●					●												●
HC/170-0.35	Hur 170 Cartridge - 0.35 Micron	●	●					●												●
HC/170-1	Hur 170 Cartridge - 1 Micron	●	●					●												●
HC/170-5	Hur 170 Cartridge - 5 Micron	●	●					●												●
HC/170-10	Hur 170 Cartridge - 10 Micron	●	●					●												●
HC/170-20	Hur 170 Cartridge - 20 Micron	●	●					●												●
HC/170-50	Hur 170 Cartridge - 50 Micron	●	●					●												●
HC/170-100	Hur 170 Cartridge - 100 Micron	●	●					●												●
HC/170-150	Hur 170 Cartridge - 150 Micron	●	●					●												●

## High Temperature - up to 200°F (93°C)\* \*250°F (121°C) with metal end caps, using suffix "HTM"

HC/40-20HT	Hur 40 Cartridge - 20 Micron High Temp	●	●					●												●
HC/40-50HT	Hur 40 Cartridge - 50 Micron High Temp	●	●					●												●
HC/90-5CPHT	Hur 90 Cartridge - 5 Micron High Temp	●	●					●												●
HC/90-5HT	Hur 90 Cartridge - 5 Micron High Temp	●	●					●												●
HC/90-10HT	Hur 90 Cartridge - 10 Micron High Temp	●	●					●												●
HC/90-20HT	Hur 90 Cartridge - 20 Micron High Temp	●	●					●												●
HC/90-50HT	Hur 90 Cartridge - 50 Micron High Temp	●	●					●												●
HC/170-5CPHT	Hur 170 Cartridge - 5 Micron High Temp	●	●					●												●
HC/170-5HT	Hur 170 Cartridge - 5 Micron High Temp	●	●					●												●
HC/170-10HT	Hur 170 Cartridge - 10 Micron High Temp	●	●					●												●
HC/170-20HT	Hur 170 Cartridge - 20 Micron High Temp	●	●					●												●
HC/170-50HT	Hur 170 Cartridge - 50 Micron High Temp	●	●					●												●

## Harmsco Free - 100% synthetic composite media; NSF 61 Listed

HC/40-1W-HF	Hur 40 Cartridge - 1 Micron	●	●					●												●
HC/40-5W-HF	Hur 40 Cartridge - 5 Micron	●	●					●												●
HC/40-20W-HF	Hur 40 Cartridge - 20 Micron	●	●					●												●
HC/90-1W-HF	Hur 90 Cartridge - 1 Micron	●	●					●												●
HC/90-5W-HF	Hur 90 Cartridge - 5 Micron	●	●					●												●
HC/90-20W-HF	Hur 90 Cartridge - 20 Micron	●	●					●												●
HC/170-1W-HF	Hur 170 Cartridge - 1 Micron	●	●					●												●
HC/170-5W-HF	Hur 170 Cartridge - 5 Micron	●	●					●												●
HC/170-20W-HF	Hur 170 Cartridge - 20 Micron	●	●					●												●

## Poly-Pleat - 1 micron absolute, multi-layered media; NSF 61 Listed

PP-HC-40-1	Poly Pleat Hur 40 Cartridge - 1 Micron	●	●					●												●
PPFS-HC-40-1	PP-Fail Safe Hur 40 Cartridge - 1 Micron	●	●					●												●
PP-HC-90-1	Poly Pleat Hur 90 Cartridge - 1 Micron	●	●					●												●
PPFS-HC-90-1	PP-Fail Safe Hur 90 Cartridge - 1 Micron	●	●					●												●
PP-HC-170-1	Poly Pleat Hur 170 Cartridge - 1 Micron	●	●					●												●
PPFS-HC-170-1	PP-Fail Safe Hur 170 Cartridge - 1 Micron	●	●					●												●

## All-Poly - 100% polypropylene media with polypropylene end caps and components; also available in 10, 20 and 50 micron ratings

HC-PP-40-0.2	Hur 40 High Purity Pleated PP - 0.2 Mic	●	●					●												●
HC-PP-40-0.45	Hur 40 High Purity Pleated PP - 0.45 Mic	●	●					●												●
HC-PP-40-1	Hur 40 High Purity Pleated PP - 1 Mic	●	●					●												●
HC-PP-40-5	Hur 40 High Purity Pleated PP - 5 Mic	●	●					●												●
HC-PP-90-0.2	Hur 90 High Purity Pleated PP - 0.2 Mic	●	●					●												●
HC-PP-90-0.45	Hur 90 High Purity Pleated PP - 0.45 Mic	●	●					●												●
HC-PP-90-1	Hur 90 High Purity Pleated PP - 1 Mic	●	●					●												●
HC-PP-90-5	Hur 90 High Purity Pleated PP - 5 Mic	●	●					●												●
HC-PP-170-0.2	Hur 170 High Purity Pleated PP - 0.2 Mic	●	●					●												●
HC-PP-170-0.45	Hur 170 High Purity Pleated PP - 0.45 Mic	●	●					●												●
HC-PP-170-1	Hur 170 High Purity Pleated PP - 1 Mic	●	●					●												●
HC-PP-170-5	Hur 170 High Purity Pleated PP - 5 Mic	●	●					●												●

Hurricane® Cartridge Family

40 90 170

Sediment Removal, Turbidity Reduction, Chlorine Removal, Taste & Odor Reduction, Cyst Removal, Pre-Filtration, Post-Filtration, Antimicrobial Absolute Rated, Nominal Rated, 100% Synthetic Use, Non Potable Course Filtration, High Temperature, All Polypropylene, NSF Listed, Cleanable/ Reusable

**SureSafe Antimicrobial** - reduces growth of bacteria and mold on media

HC/40-20-AM	Hur 40 Cartridge - 20 Micron	●	●				●		●								●
HC/40-50-AM	Hur 40 Cartridge - 50 Micron	●	●				●		●								●
HC/90-20-AM	Hur 90 Cartridge - 20 Micron	●	●				●		●								●
HC/90-50-AM	Hur 90 Cartridge - 50 Micron	●	●				●		●								●
HC/170-20-AM	Hur 170 Cartridge - 20 Micron	●	●				●		●								●
HC/170-50-AM	Hur 170 Cartridge - 50 Micron	●	●				●		●								●

**Carbon Block** - includes pleated 5 micron nominal pre-filtration; NSF 42 Listed

HC/40-AC-5	Hur 40 Cart. Carbon + 5 Mic Pre-filt	●	●	●	●												●
HC/90-AC-5	Hur 90 Cart. Carbon + 5 Mic Pre-filt	●	●	●	●												●
HC/170-AC-5	Hur 170 Cart. Carbon + 5 Mic Pre-filt	●	●	●	●												●

**EZ Clean** - 100% synthetic composite 50 micron media

HC/40-EZ-CLEAN	Hur Cartridge - EZ CLEAN - 50 Micron	●	●														●
HC/90-EZ-CLEAN	Hur Cartridge - EZ CLEAN - 50 Micron	●	●	●	●												●
HC/170-EZ-CLEAN	Hur Cartridge - EZ CLEAN - 50 Micron	●	●														●

**Poly-Mesh** - 100% synthetic composite 250 micron media

HC/170-PM	Hur 170 Cartridge Poly Mesh - 250 Micron	●	●														●
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Note: WaterBetter® Single Cartridge Filters Use Hurricane® Cartridges

**Cartridge Sizing Guide**

**Cleanable/ Reusable** Hurricane® cartridges are cleanable and reusable in most applications and micron ratings (5 micron and up).

**For Harmsco® Hurricane® and WaterBetter® Single-cartridge Filter Housings**

Harmsco® recommends operation at 70% of maximum flow rate for optimum performance.

**Polyester, High Temperature, Harmsco Free, SureSafe, EZ Clean, Poly-Mesh**

Filter Model	Pleated Media Area (sq.ft.)	Length (in.)	O.D. (in.)	Max Flow Rate (GPM)	Recommended Flow Rate (GPM)	Max Flow Rate (LPM)	Max Flow Rate (M <sup>3</sup> /HR)	No./ Case	Carton Size
WB 40SC-2*	40	9-5/8	7-3/4	Up to 50	35	Up to 189	Up to 12	1	9x9x11
WB 90SC-2*	90	19-1/2	7-3/4	Up to 100	70	Up to 378	Up to 24	1	9x9x21
WB 170SC-2*	170	30-3/4	7-3/4	Up to 150	105	Up to 568	Up to 36	1	9x9x32

**Poly-Pleat**

WB 40SC-2*	25	9-5/8	7-3/4	-	15	-	-	1	9x9x11
WB 90SC-2*	50	19-1/2	7-3/4	-	25	-	-	1	9x9x21
WB 170SC-2*	100	30-3/4	7-3/4	-	50	-	-	1	9x9x32

**All-Poly**

WB 40SC-2*	25	9-5/8	7-3/4	25	17	19	Up to 12	1	9x9x11
WB 90SC-2*	50	19-1/2	7-3/4	50	35	38	Up to 24	1	9x9x21
WB 170SC-2*	75	30-3/4	7-3/4	100	60 <sup>a</sup>	76	Up to 36	1	9x9x32

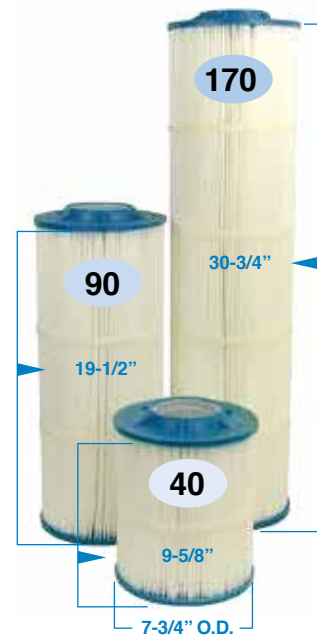
**Carbon Block**

<sup>a</sup> based on 1, 5, 10, 20 and 50 micron ratings

WB 40SC-2*	25	9-5/8	7-3/4	-	5 <sup>b</sup>	-	-	1	9x9x11
WB 90SC-2*	55	19-1/2	7-3/4	-	10 <sup>b</sup>	-	-	1	9x9x21
WB 170SC-2*	90	30-3/4	7-3/4	-	15 <sup>b</sup>	-	-	1	9x9x32

\* "2" represents 2 inch inlet/outlet pipe size; use "1" for 1 inch (not NSF Listed)

<sup>b</sup> recommended flow for maximum chlorine removal



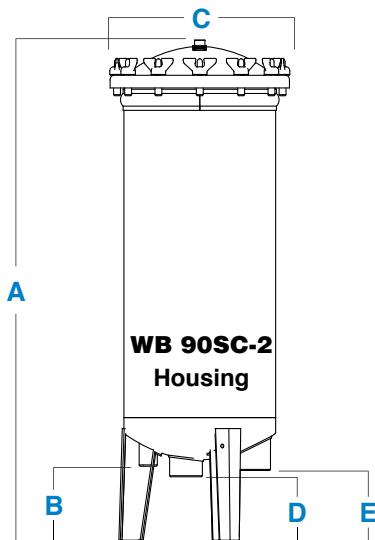
**Hurricane® Cartridges**  
Length and O.D.

Cartridge Sizing Guide

**Media Options**

<p><b>Polyester</b></p> <p>NSF 61 Listed</p>	<p><b>High Temperature</b></p>	<p><b>Harmsco Free</b></p> <p>NSF 61 Listed</p>	<p><b>Poly-Pleat (multi-layer)</b></p> <p>NSF 61 Listed</p>	<p><b>All-Poly (multi-layer)</b></p>
<p><b>SureSafe (antimicrobial)</b></p>	<p><b>Carbon Block (5 Micron Pleated Pre-filter)</b></p> <p>NSF 42 Listed</p>	<p><b>EZ Clean</b></p>	<p><b>Poly-Mesh</b></p>	

## Harmsco® WB WaterBetter® Filter Housings



WB 40SC-2



WB 90SC-2



WB 170SC-2

### Ordering Information

Filter Model	A Filter Height	B Drain	C Diameter	D Outlet	E Inlet	Pipe Size NPT	Drain Size NPT	Floor Space In.	Service Ht.	Shipping Wt. Lbs.	Carton Size In.
WB 40SC-1*	19-1/4"	4-1/2"	13"	3-7/8"	4-1/4"	1"	1"	15x15	31"	40	14x16x21
WB 40SC-2	19-1/4"	4-1/2"	13"	3-7/8"	4-1/4"	2"	1"	15x15	31"	40	14x16x21
WB 90SC-1*	29-3/8"	4-1/2"	13"	3-7/8"	4-1/4"	1"	1"	15x15	51"	51	14x16x38
WB 90SC-2	29-3/8"	4-1/2"	13"	3-7/8"	4-1/4"	2"	1"	15x15	51"	51	14x16x38
WB 170SC-1*	39-1/8"	4-1/2"	13"	3-7/8"	4-1/4"	1"	1"	15x15	72"	64	14x16x42
WB 170SC-2	39-1/8"	4-1/2"	13"	3-7/8"	4-1/4"	2"	1"	15x15	72"	64	14x16x42

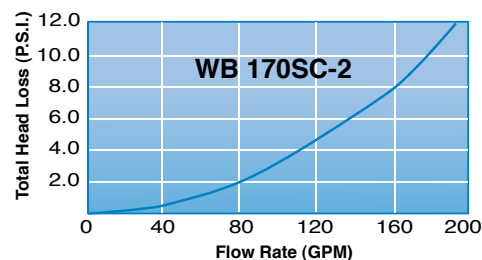
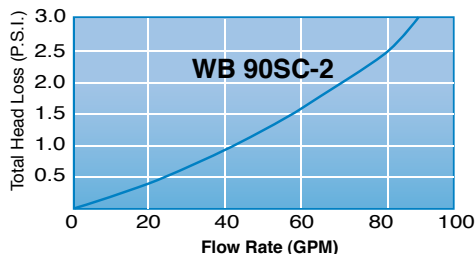
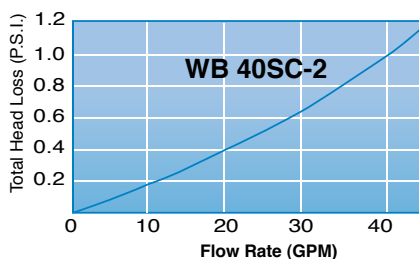
\*For 1" plumbing; not NSF Listed.

### Filter Specifications

- ▶ Electropolished 304 stainless steel\*
- ▶ Standpipe - CPVC\*
- ▶ Temperature - 140°F (60°C)\* max. \*Up to 200°F (93°C) with optional stainless steel standpipe and high temperature cartridges installed
- ▶ Pressure - 150 psi (10 bar) max.
- ▶ Wing nuts - brass
- ▶ Rim gaskets - EPDM (Buna-N, Viton available)
- ▶ BSTP optional

\*All stainless steel housings are 304; 316 available upon request. Stainless steel standpipe for high temperature also available.

### Pressure Drop



The total head loss data shown above was developed by NSF International and indicates pressure drop with WaterBetter® filter housings and 20 micron filter cartridges in clean water.

**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.