

# HARMSCO<sup>®</sup> Hurricane<sup>®</sup> Swing Bolt Housings

# SB

*Two Technologies in One*

## Lower Operation Cost

- Harmsco<sup>®</sup> Hurricane<sup>®</sup> Swing Bolt filter housings provide unsurpassed performance. Their unique design separates dense solids prior to cartridge filtration for extended filter life, increased dirt holding capacity and reduced maintenance costs.

### Features



- ▶ Patented Up-flow Design
- ▶ Pressure rated to 235 PSI (XFP models)
- ▶ NSF 61 listed
- ▶ Electro-polished finish - standard
- ▶ "Swing Bolt" closure system
- ▶ Combination cyclone separator and cartridge filter in a single compact design
- ▶ Four sizes for greater utility - one, three, five and eight cartridges
- ▶ 304L stainless steel housing and internal components - standard
- ▶ The industry's largest selection of cartridge options
- ▶ Built to ASME design standards
- ▶ 316L SS, Duplex SS, & 3MTM Scotchkote<sup>™</sup> coating available
- ▶ Flow rates up to 1,200 GPM (up to 2,400 GPM see **SB High Flow** literature)



### Applications

- ▶ Municipal Drinking Water
- ▶ Cooling Tower Filtration
- ▶ Desalination Pre-filtration (coated option)
- ▶ Surface Water Treatment Rule (SWTR) LT2
- ▶ Industrial Waste Water Treatment
- ▶ Reverse Osmosis Pre-filtration
- ▶ Ground Water Remediation
- ▶ Ground Water Under Direct Influence (GUDI)



**HARMSCO<sup>®</sup> Filtration Products**



## Cartridge Selection

Hurricane® Cartridges For Swing Bolt Housings

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

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

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/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/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-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

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	●	●						●									●	
HC-PP-170-10	Hur 170 High Purity Pleated PP - 10 Mic	●	●						●									●	
HC-PP-170-20	Hur 170 High Purity Pleated PP - 20 Mic	●	●						●									●	
HC-PP-170-50	Hur 170 High Purity Pleated PP - 50 Mic	●	●						●									●	

### SureSafe™ Antimicrobial - reduces growth of bacteria and mold on media

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

HC/170-AC-5	Hur 170 Cart. Carbon + 5 Mic Pre-filt	●	●	●	●				●										●
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### EZ Clean - 100% synthetic composite 50 micron media

HC/170-EZ-CLEAN	Hur Cartridge - EZ CLEAN - 50 Micron	●	●						●										●
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### Poly-Mesh - 100% synthetic composite 250 micron media

HC/170-PM	Hur 170 Cartridge Poly Mesh - 250 Micron	●	●						●										●
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### Polyester-Plus™

### High Temperature

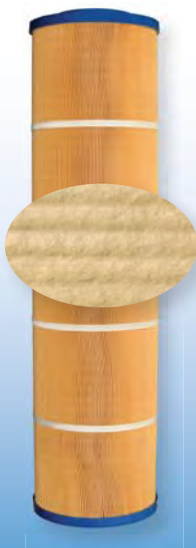
### Harmsco-Free

### Poly-Pleat™

(multi-layer)

### All-Poly

(multi-layer)



**Harmsco®** manufacturers the largest selection of

## Cartridge Sizing Guide

### For Harmsco® Hurricane® Swing Bolt Single and Multiple Cartridge Filter Housings

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

#### Polyester-Plus™, High Temp, Harmsco-Free, SureSafe™, EZ Clean, Poly-Mesh

Filter Model	NO. of Cartridges	Pleated Media Area (sq.ft.)	Length (in.)	O.D. (in.)	Recommended Flow Rate* (GPM)	Max Flow Rate (GPM)	Max Flow Rate (LPM)	Max Flow Rate (M <sup>3</sup> /HR)	Carton Size
HUR 1x170FL	1	170	30-3/4	7-3/4	105	150	568	34	9x9x32
HUR 3x170FL	3	510	30-3/4	7-3/4	315	450	1,703	102	9x9x32
HUR 5x170FL	5	850	30-3/4	7-3/4	525	750	2,839	170	9x9x32
HUR 8x170FL	8	1360	30-3/4	7-3/4	840	1200	4,542	272	9x9x32

#### Poly-Pleat™

HUR 1x170FL	1	100	30-3/4	7-3/4	50	–	–	–	9x9x32
HUR 3x170FL	3	300	30-3/4	7-3/4	150	–	–	–	9x9x32
HUR 5x170FL	5	500	30-3/4	7-3/4	250	–	–	–	9x9x32
HUR 8x170FL	8	800	30-3/4	7-3/4	400	–	–	–	9x9x32

#### All-Poly

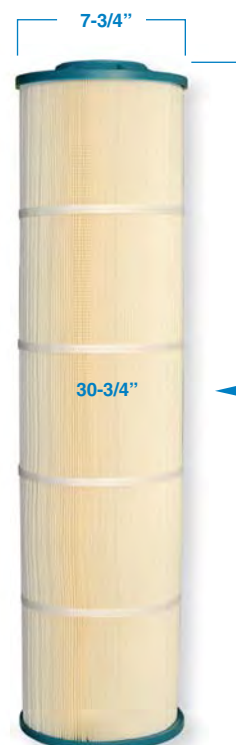
HUR 1x170FL	1	75	30-3/4	7-3/4	60*	100	76	36	9x9x32
HUR 3x170FL	3	225	30-3/4	7-3/4	180*	300	228	108	9x9x32
HUR 5x170FL	5	375	30-3/4	7-3/4	300*	500	380	180	9x9x32
HUR 8x170FL	8	600	30-3/4	7-3/4	480*	800	608	288	9x9x32

#### Carbon Block

\*based on 1, 5, 10, 20 and 50 micron ratings

HUR 1x170FL	1	90	30-3/4	7-3/4	15**	–	–	–	9x9x32
HUR 3x170FL	3	270	30-3/4	7-3/4	45**	–	–	–	9x9x32
HUR 5x170FL	5	450	30-3/4	7-3/4	75**	–	–	–	9x9x32
HUR 8x170FL	8	720	30-3/4	7-3/4	120**	–	–	–	9x9x32

\*\*recommended flow for maximum chlorine removal



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

## Cleanable/Reusable

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

### SureSafe™

(antimicrobial)



### Carbon Block

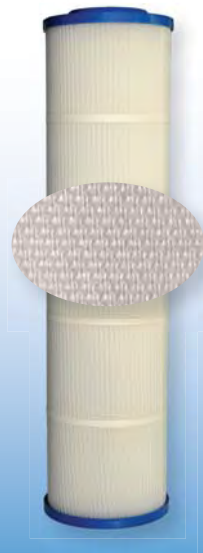
(5 Micron Pleated Pre-filter)



### EZ Clean



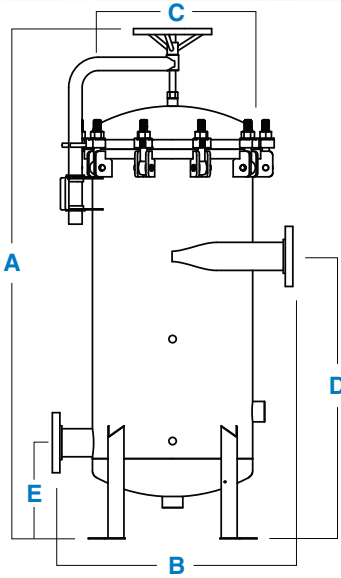
### Poly-Mesh



**cartridges in the industry for all your filtration needs.**

# Harmsco® Hurricane® Swing Bolt Housings

**SB**



## Ordering Information

Filter Model	Pressure Rating PSI (Bar)	A Filter Height	B Width	C Diameter	D Inlet	E Outlet	Pipe Size I/O NPS	Drain Size NPT	Floor Space	Service Height	Shipping Wt. (lbs.)
HUR 1x170FL-XP	150 (10)	48"	15-1/2"	11"	23-5/8"	9-3/4"	2" Flange	3/4"	1.8 ft <sup>2</sup>	77"	150
HUR 3x170FL-XP	150 (10)	64"	30"	20"	35-1/4"	12"	3" Flange	1-1/2"	3.7 ft <sup>2</sup>	98-1/2"	420
HUR 5x170FL-XP	150 (10)	74"	37-1/2"	30"	38"	14-1/8"	4" Flange	1-1/2"	7.6 ft <sup>2</sup>	98-1/2"	1,100
HUR 8x170FL-XP	150 (10)	84"	44-1/4"	35-3/8"	44-1/4"	20-1/2"	6" Flange	1-1/2"	13 ft <sup>2</sup>	104-1/2"	1,600
HUR 1x170FL-XXP	235 (16)	48"	15-1/2"	11"	23-5/8"	9-3/4"	2" Flange	3/4"	1.8 ft <sup>2</sup>	77"	150
HUR 3x170FL-XXP	235 (16)	64"	30"	20"	35-1/4"	12"	3" Flange	1-1/2"	3.7 ft <sup>2</sup>	98-1/2"	420
HUR 5x170FL-XXP	235 (16)	74"	37-1/2"	30"	38"	14-1/8"	4" Flange	1-1/2"	7.6 ft <sup>2</sup>	98-1/2"	1,100
HUR 8x170FL-XXP	235 (16)	84"	44-1/4"	35-3/8"	44-1/4"	20-1/2"	6" Flange	1-1/2"	13 ft <sup>2</sup>	104-1/2"	1,600

## Filter Specifications

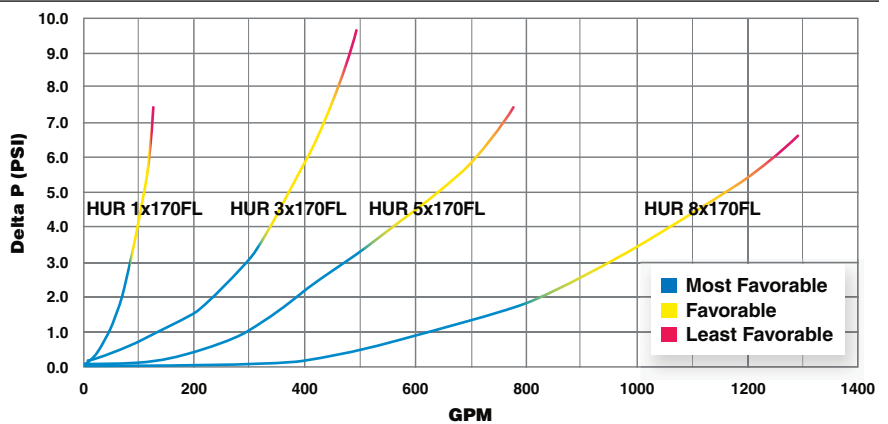
- ▶ Electropolished or Matte(5X & larger) finish
- ▶ Built to ASME design standards
- ▶ Standpipes - stainless steel
- ▶ Inlet/Outlet - flanged connections
- ▶ O-ring housing seal, swing-bolt closure
- ▶ Pressure - Up to 235 psi (16 bar) max (XXP Only)
- ▶ Temperature - Up to 250°F (121°C) with HTM high temperature cartridges.

## Pressure Drop

### Pressure Drop vs. Flow Rate

The total head loss data shown indicates pressure drop with Hurricane® Swing Bolt filter housings and 20-micron filter cartridges in clean water.

For additional information, please refer to the "Installation & Operation Manual" for Hurricane® Swing Bolt Filters.



**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.

