

## Hurricane® Swing Bolt Housings

Two Technologies in One

### Lower Operation Cost

- Harmsco® Hurricane® 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.



Certified to  
ANSI-NSF 61

### Features

- ▶ Patented Up-flow Design
- ▶ 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
- ▶ 304 stainless steel housing and internal components - standard
- ▶ The industry's largest selection of cartridge options
- ▶ Built to ASME design standards
- ▶ Coated option available
- ▶ Flow rates up to 1,200 GPM



### 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)





# 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 (M³/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



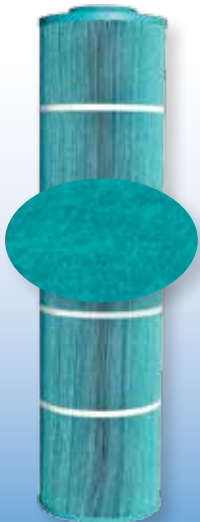
**Hurricane® Cartridge**  
Length and O.D.

## Cleanable/Reusable

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

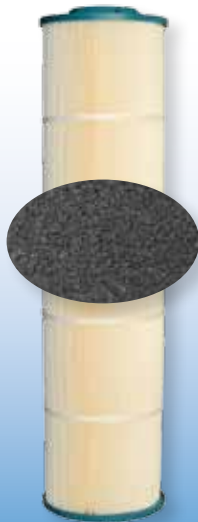
### SureSafe™

(antimicrobial)



### Carbon Block

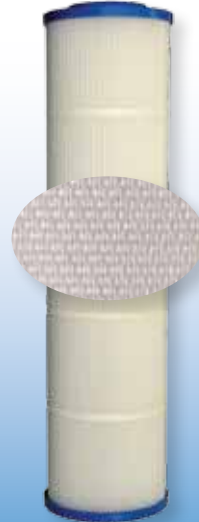
(5 Micron Pleated Pre-filter)



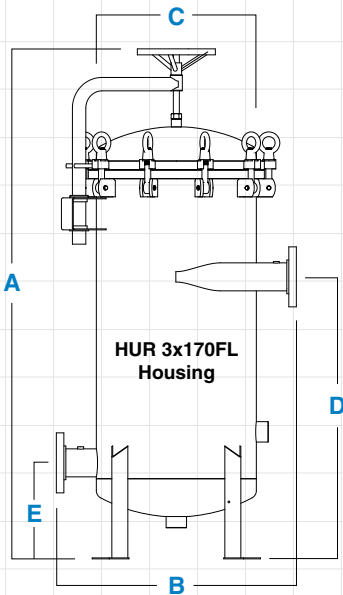
### EZ Clean



### Poly-Mesh



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



## Ordering Information

Filter Model	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	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	64"	30"	20"	35-1/4"	12"	3" Flange	1-1/2"	3.7 ft <sup>2</sup>	98-1/2"	420
HUR 5x170FL	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	84"	44-1/4"	35-3/8"	44-1/4"	20-1/2"	6" Flange	1-1/2"	13 ft <sup>2</sup>	98-1/2"	1,600

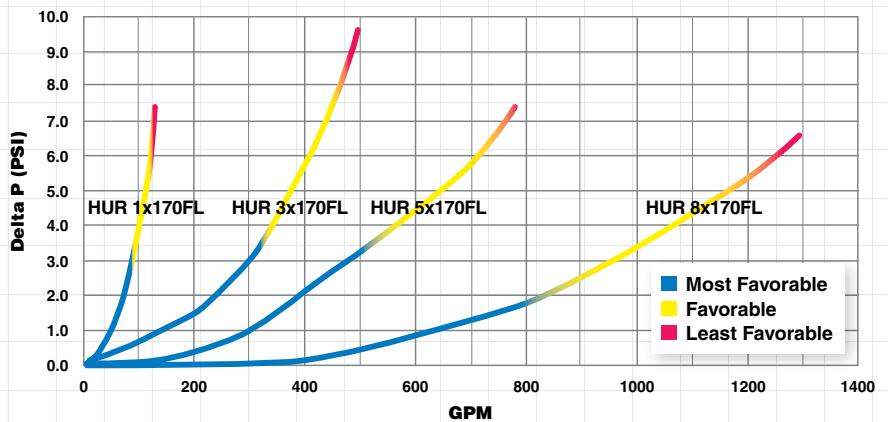
## Filter Specifications

- ▶ Electropolished finish
- ▶ Built to ASME design standards
- ▶ Standpipes - stainless steel
- ▶ Inlet/Outlet - flanged connections
- ▶ O-ring housing seal, swing-bolt closure
- ▶ Pressure - Up to 150 psi (10 bar) max.
- ▶ Temperature - Up to 140°F (60°C)\* with standard cartridges. \*Up to 200°F (93°C) with HT, and 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.



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