

HARMSCO®

Hurricane® Swing Bolt Housings

Two Technologies in One

Lower Operation Cost

- Harmsco® Hurricane® filters 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

Excluding High Temp Cartridges

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
- ▶ Flow rates up to 1,200 GPM



Applications

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



HARMSCO® Filtration Products



Cartridge Selection

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 Course Filtration High Temperature All Polypropylene NSF Listed Cleanable/ Reusable

Polyester - engineered for high efficiency, low pressure drops

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

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

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	●	●					●			●							●	

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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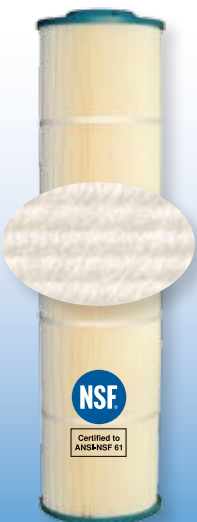
Poly-Mesh - 100% synthetic composite 250 micron media

HC/170-PM	Hur 170 Cartridge Poly Mesh - 250 Micron	●	●				●				●	●							●
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Nano Fiber - 1 micron absolute, multi-layered media, low initial pressure drop, high flow rates

Nano-HC-170-1	Hur 170 Cartridge - 1 Micron	●	●			●		●			●	●						●	
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Polyester



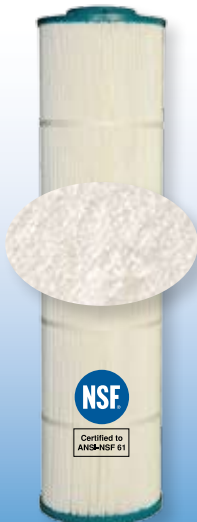
High Temperature



Harmsco Free



Poly-Pleat



All-Poly



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, High Temperature, 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 ³ /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

Nano Fiber

HUR 1x170FL	1	100	30-3/4	7-3/4	100	150	568	34	9x9x32
HUR 3x170FL	3	300	30-3/4	7-3/4	300	450	1,703	102	9x9x32
HUR 5x170FL	5	500	30-3/4	7-3/4	500	750	2,839	170	9x9x32
HUR 8x170FL	8	800	30-3/4	7-3/4	800	1,200	4,542	272	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

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

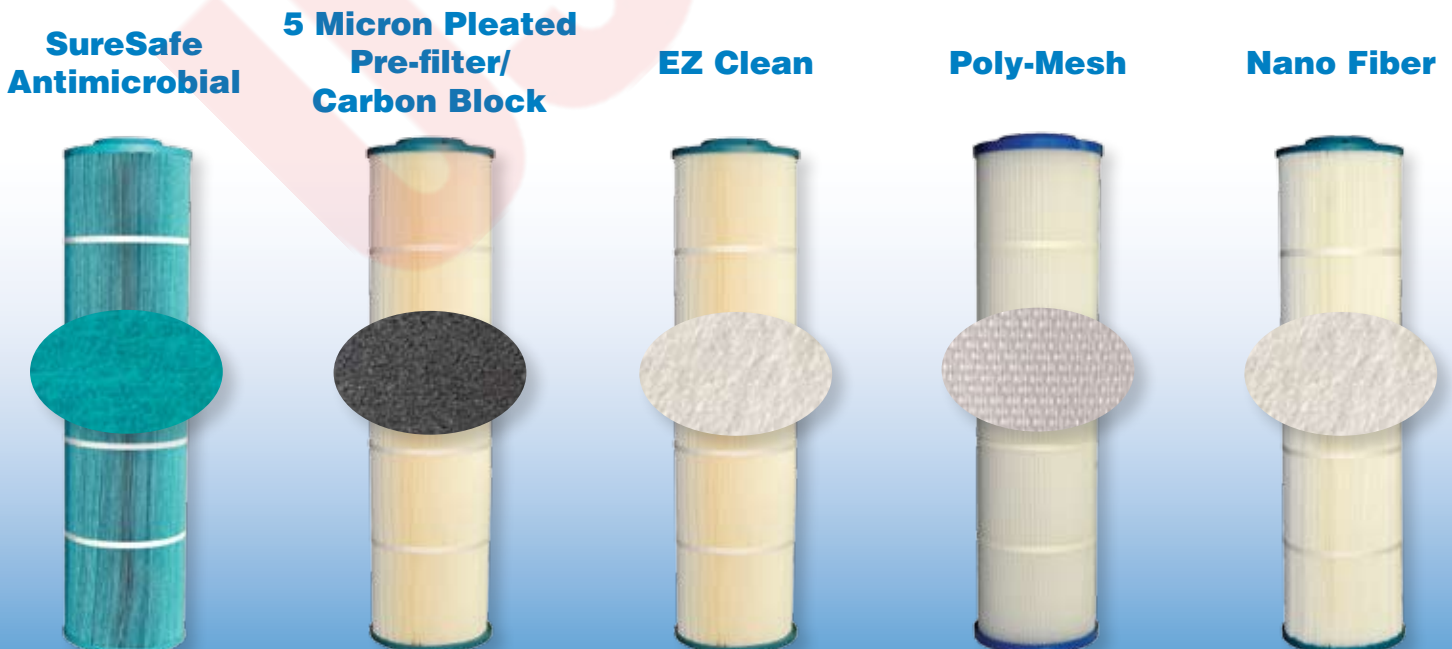
*recommended flow for maximum chlorine removal



Hurricane® Cartridge
Length and O.D.

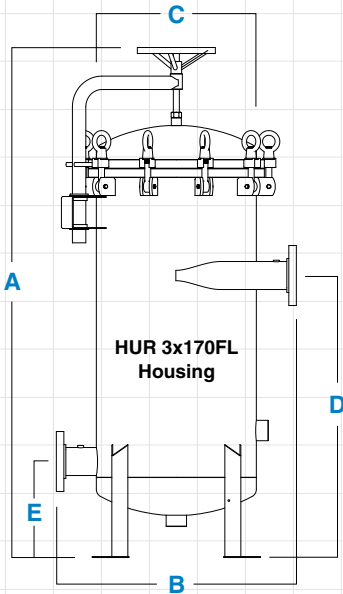
Cleanable/Reusable

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



Cartridges in the industry for all your filtration needs.

Harmsco® Hurricane® Swing Bolt Filter Housings



NSF
 Certified to
 ANSI-NSF 61
 Excluding High Temp Cartridges



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	47-1/2"	15-1/2"	11"	23-5/8"	9-3/4"	2" Flange	3/4"	1.8 ft ²	77"	150
HUR 3x170FL	64"	30"	20"	35-1/4"	12"	3" Flange	1-1/2"	3.7 ft ²	84"	420
HUR 5x170FL	73-3/4"	38"	30"	38"	14-1/8"	4" Flange	1-1/2"	7.6 ft ²	89 1/2"	1,100
HUR 8x170FL	84"	45-1/4"	35-7/16"	44-1/4"	20-1/4"	6" Flange	1-1/2"	13 ft ²	98-1/2"	1,600

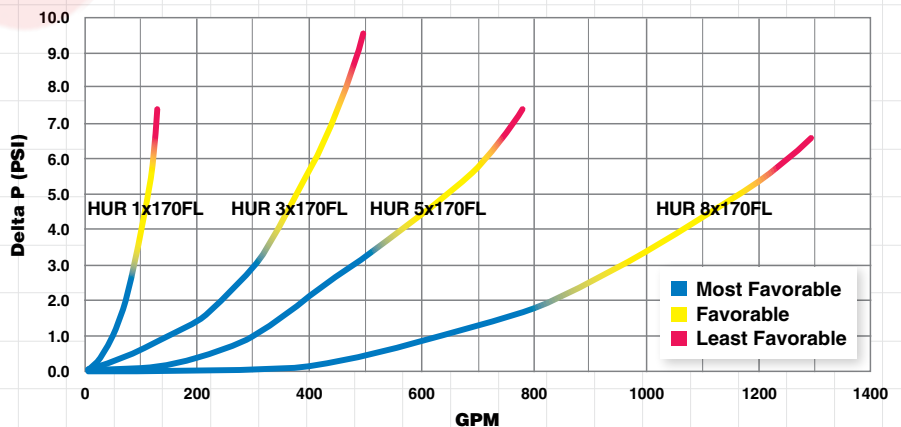
Filter Specifications

- ▶ 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.



HARMSCO® Filtration Products

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