

HARMSCO®

HP Hurricane® Filter Housings

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Two Technologies in One

Lower Operation Cost

- Harmsco® HP Hurricane® filters provide unsurpassed performance. Our 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

- ▶ Combination cyclone separator and cartridge filter in a single compact design
- ▶ Patented Up-flow design with tangential entry - prevents air entrapment
- ▶ Rotational flow “flutters” media pleats - improving loading performance
- ▶ Electropolished 304 stainless steel housing
- ▶ Fail-Safe closure system
- ▶ Three sizes for greater media surface area
- ▶ CPVC standpipe (standard) - stainless steel optional
- ▶ Extensive choice of cartridge micron ratings and media, including carbon block
- ▶ NSF 61 listed



Applications

- ▶ Commercial/Residential Drinking Water
- ▶ Cooling Tower Filtration
- ▶ Desalination Pre-filtration (316 and coated options)
- ▶ Surface Water Treatment Rule (SWTR) I, II
- ▶ Process Water
- ▶ Whole House Filtration
- ▶ Industrial Waste Water Treatment
- ▶ Reverse Osmosis Pre-filtration
- ▶ Small Community Compliance (cysts)
- ▶ Well Water
- ▶ Ground Water Remediation
- ▶ Ground Water Under Direct Influence (GUDI)



HARMSCO® Filtration Products



Made in USA

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; 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	•	•		•	•		•							•	

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 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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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 (M³/HR)	No./ Case	Carton Size
HUR 40 HP	40	9-5/8	7-3/4	Up to 50	35	Up to 189	Up to 12	1	9x9x11
HUR 90 HP	90	19-1/2	7-3/4	Up to 100	70	Up to 378	Up to 24	1	9x9x21
HUR 170 HP	170	30-3/4	7-3/4	Up to 150	105	Up to 568	Up to 36	1	9x9x32

Poly-Pleat

HUR 40 HP	25	9-5/8	7-3/4	—	15	—	—	1	9x9x11
HUR 90 HP	50	19-1/2	7-3/4	—	25	—	—	1	9x9x21
HUR 170 HP	100	30-3/4	7-3/4	—	50	—	—	1	9x9x32

All-Poly

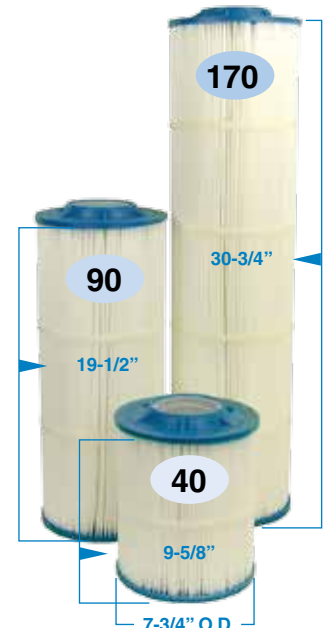
HUR 40 HP	25	9-5/8	7-3/4	25	17	19	Up to 12	1	9x9x11
HUR 90 HP	50	19-1/2	7-3/4	50	35	38	Up to 24	1	9x9x21
HUR 170 HP	75	30-3/4	7-3/4	100	60 ^a	76	Up to 36	1	9x9x32

Carbon Block

^a based on 1, 5, 10, 20 and 50 micron ratings

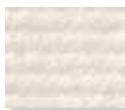
HUR 40 HP	25	9-5/8	7-3/4	—	5 ^b	—	—	1	9x9x11
HUR 90 HP	55	19-1/2	7-3/4	—	10 ^b	—	—	1	9x9x21
HUR 170 HP	90	30-3/4	7-3/4	—	15 ^b	—	—	1	9x9x32

^b recommended flow for maximum chlorine removal



Hurricane® Cartridges
Length and O.D.

Polyester



NSF 61 Listed

High Temperature

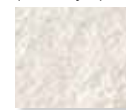


Harmsco Free



NSF 61 Listed

Poly-Pleat (multi-layer)



NSF 61 Listed

All-Poly (multi-layer)



Media Options

SureSafe (antimicrobial)

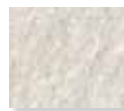


Carbon Block (5 Micron Pleated Pre-filter)



NSF 42 Listed

EZ Clean



Poly-Mesh

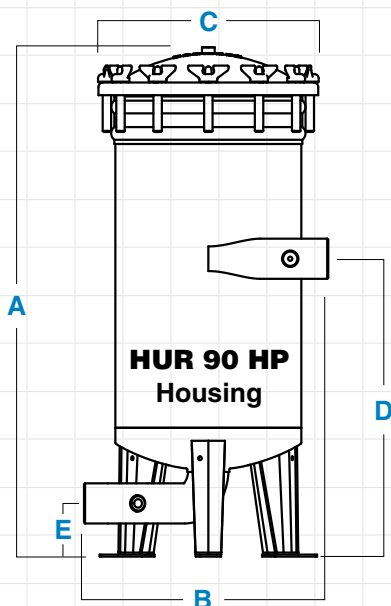


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Cartridges in the industry for all your filtration needs.

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Certified to
ANSI-NSF 61

Excluding High Temp Cartridges



HUR 40 HP



HUR 90 HP



HUR 170 HP

Ordering Information

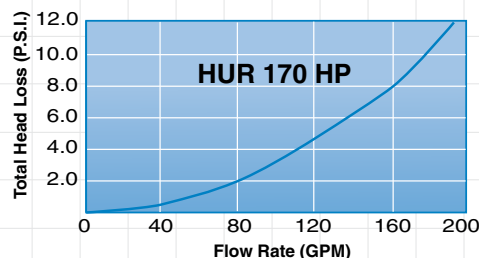
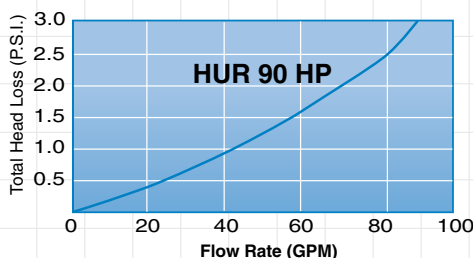
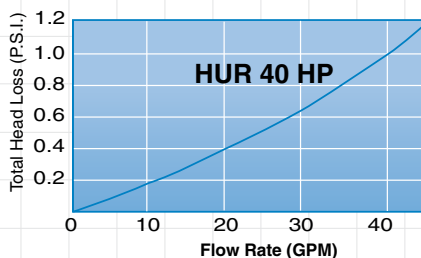
Filter Model	A Filter Height	B Width	C Diameter	D Inlet	E Outlet	Pipe Size NPT	Drain Size NPT	Floor Space In.	Service Ht.	Shipping Wt. Lbs.	Carton Size In.
HUR 40 HP	19-1/2"	14-5/8"	13"	12-3/4"	3-7/16"	2"	1"	15x15	35"	40	14x16x21
HUR 90 HP	29-7/8"	14-5/8"	13"	17-3/4"	3-7/16"	2"	1"	15x15	51"	52	14x16x38
HUR 170 HP	40-1/2"	14-5/8"	13"	23-5/8"	3-7/16"	2"	1"	15x15	72"	64	14x16x42

Filter Specifications

- ▶ Electropolished 304 stainless steel*
- ▶ Standpipe - CPVC*
- ▶ Temperature - 140°F (60°C)* max. *Up to 250°F (121°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
- ▶ Gauge sample ports (1/4"), inlet and outlet
- ▶ 90° elbow and 45° sweep on outlet for staggered in-line vertical installation

*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 Hurricane® filter housings and 20 micron filter cartridges in clean water.

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