HARMSCO® HP

Hurricane® Filter Housings

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.

NSF
Certified to ANSI-NSF 61

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 lid closure, rated for 150 psi
- 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) LT2
- Process Water
- Whole House Filtration
- Industrial Waste Water Treatment
- Reverse Osmosis Pre-filtration
- Small Community Compliance LT2
- Well Water
- Ground Water Remediation
- Ground Water Under Direct Influence (GUDI)

Cartridge Selection

Hurricane® Cartridge Family

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

		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
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-layed 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	●	●					●		●					●			

Harmsco® manufacturers the largest selection of

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 Use Only	Course Filtration	High Temperature	All Polypropylene	NSF Listed	Cleanable/ Reuseable
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																		
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	●	●				●				●	●		●				●

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

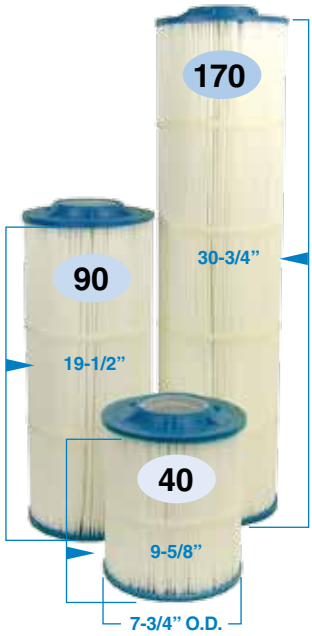
Harmsco® recommends operation at 70% of maximum flow rate for optimum performance.

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^3/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									
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

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

[b] recommended flow for maximum chlorine removal



Hurricane® Cartridges
Length and O.D.

Media Options

Polyester-Plus™ NSF 61 Listed

High Temperature

Harmsco-Free NSF 61 Listed

Poly-Pleat™ (multi-layer) NSF 61 Listed

All-Poly (multi-layer)

SureSafe™ (antimicrobial)

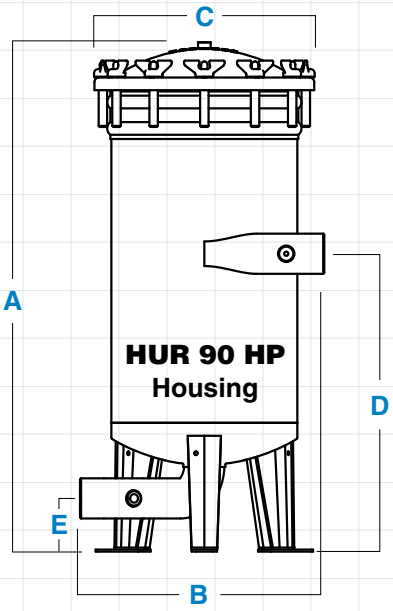
Carbon Block (5 Micron Pleated Pre-filter)

EZ Clean

Poly-Mesh

cartridges in the industry for all your filtration needs.

Harmsco® Hurricane® Filter Housings HP



NSF Certified to ANSI-NSF 61


HUR 40 HP


HUR 90 HP


HUR 170 HP

Ordering Information

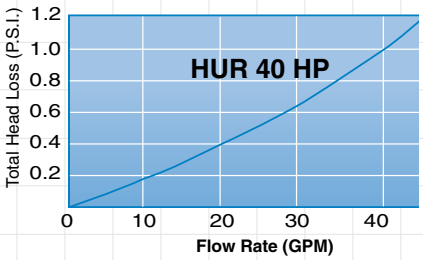
Filter Model	A Filter Height	B Width	C Diameter	D Inlet	E Outlet	Pipe Size NPT	Drain Size NPT	Floor Space	Service Ht.	Shipping Wt. Lbs.	Carton Size In.
HUR 40 HP	19-1/2”	14-3/8”	13”	12-3/4”	3-7/16”	2”	1”	15”x15”	35”	40	14x16x21
HUR 90 HP	29-7/8”	14-3/8”	13”	17-3/4”	3-7/16”	2”	1”	15”x15”	51”	52	14x16x38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

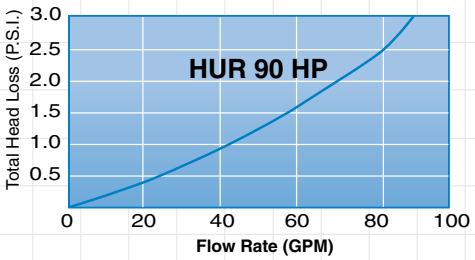
Filter Specifications

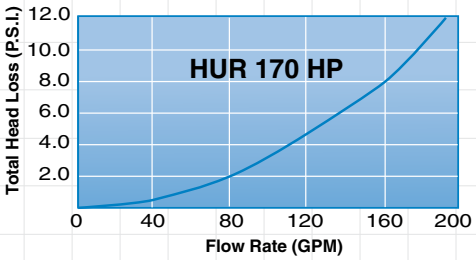
- Electropolished 304 stainless steel
- Standpipe - CPVC
- Temperature - 140˚F (60˚C) max. Up to 250˚F (121˚C) with optional stainless steel standpipe and high temperature cartridges installed
- Wing nuts - brass
- Rim gaskets - EPDM (Buna-N, Viton available)
- BSTP optional
- Gauge sample ports (1/4”), inlet and outlet
- Pressure - 150 psi (10 bar) max.

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.

