

# Multiple Cartridge Filters



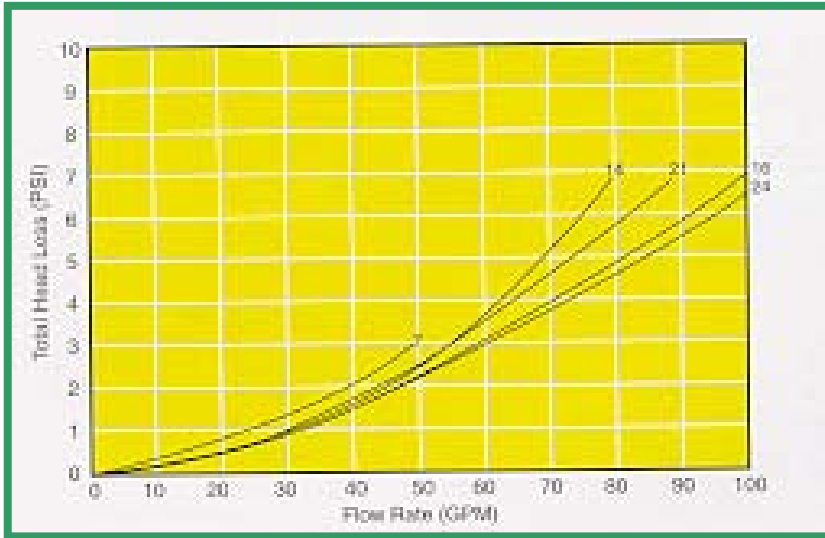
## ® HARMSCO CLUSTER FILTERS AND HIGH RATE FILTERS

### FEATURES

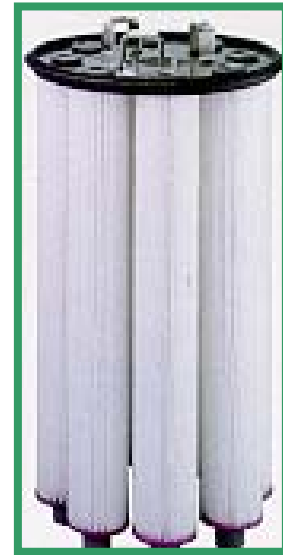
- Rugged low carbon 304 stainless steel housings
- Electro-polished for increased resistance to corrosion
- Pressure rated and hydrostatically tested to 150 psi
- Individual studs for safe, secure lid closure
- Wing nuts are used as closures so no tools are required
- Easy cartridge removal, installation, and service. Our 7,14,16,21, and 24 cartridge models have all cartridges arranged in a single "cartridge cluster" (See picture on next page)
- ®Harmsco's upflow design prevents accumulation of air in the filter and eliminates the need for an air release valve

MODEL	FLOW RATE (GPM) MAXIMUM	NUMBER OF STANDARD CARTRIDGES	ALTERNATIVE CARTRIDGES <sup>1</sup>	PIPE SIZE (IN.) (NPT)	DRAIN (IN.) (NPT)	FILTER HEIGHT	FLOOR SPACE REQUIREMENT	SERVICE HEIGHT CLEARANCE	SHIPPING WEIGHT (APPROX.)
HIF-7	Up to 30	7	Single only	1 ½	1	19 ½" 49 cm	13" x 13"	35" 89 cm	29 lbs 13 kg
HIF-14	Up to 60	14	Doubles	1 ½	1	28" 71 cm	13" x 13"	48" 122 cm	39 lbs 18 kg
HIF-16	Up to 75	16	Doubles	2	1	28" 71 cm	13" x 13"	48" 122 cm	39 lbs 18 kg
HIF-21	Up to 90	21	Triples	1 ½	1	37" 94 cm	13" x 13"	68" 173 cm	50 lbs 23 kg
HIF-24	Up to 100	24	Triples	2	1	37" 94 cm	13" x 13"	68" 173 cm	50 lbs 23 kg
HIF-42	Up to 175	42	Triples	2	1	40" 102 cm	18" x 18"	68" 173 cm	100 lbs 45 kg
HIF-75	Up to 300	75	Triples	3	1 ½	42" 107 cm	20" x 20"	70" 178 cm	129 lbs 59 kg
HIF-100	Up to 400	100	Doubles	3	1 ½	52" 132 cm	20" x 20"	87" 221 cm	188 lbs 86 kg
HIF-150-FL	Up to 600	150	Triples	4 flanged	1 ½	48" 122 cm	28" x 28"	76" 193 cm	274 lbs 124 kg
HIF-200-FL	Up to 800	200	Doubles	4 flanged	1 ½	58" 147 cm	28" x 28"	93" 236 cm	321 lbs 146 kg

## CAT595.2



**Initial Pressure Drop for ®Harmsco Cluster Filters in Clean Water.** Water King Models HIF-7, HIF-14, HIF-16, HIF-21 and HIF-24.



**Initial Pressure Drop for ®Harmsco High Capacity Filters in Clean Water.** Water King Models HIF-42, HIF-75, HIF-100, HIF-150-FL and HIF-200FL. This chart indicates the initial pressure drop for our high capacity models with 20 micron cartridges in clean water.

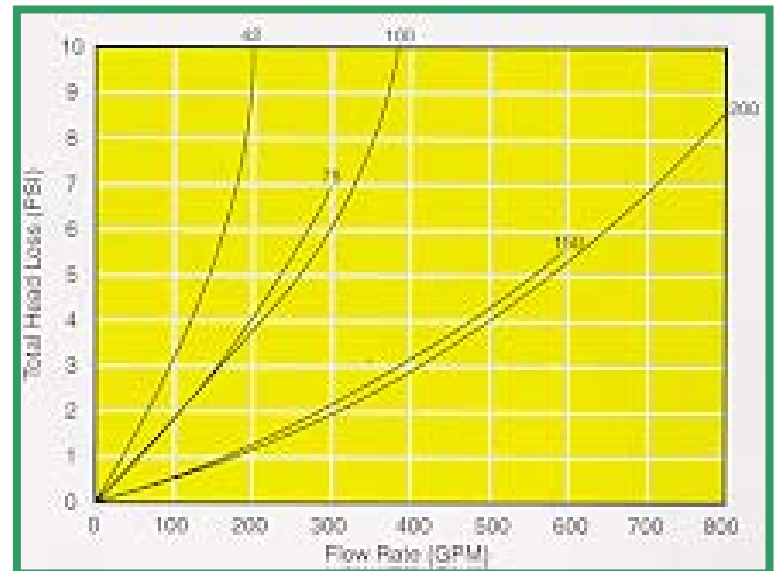
### CARTRIDGE SELECTION

Our single length 9 ¾" cartridges fit all ®Harmsco filter housing models.

Models HIF-100 and HIF-200-FL can take double length cartridges; HIF-42, HIF-75 and HIF-150-FL can take triple length cartridges.

### TEMPERATURES

Standard filters with CPVC holding rods, pipe caps and standpipes with standard ®Harmsco cartridges are temperature rated to 140°F (60°C). Models with stainless steel internals are temperature rated to 200° F (93°C) with ®Harmsco High Temp cartridges. Results may vary; ratings are based on pressures and time under load.



# Hurricane Filters

Three standard ®Harmsco Hurricane Filter models are available for a wide range of applications. Standard models are rated for pressures to 150 psi and temperatures to 140° F (60°C). See compatibility charts for chemical resistance to stainless steel.



## FEATURES

- 304 stainless steel filter housings
- Electro-polished for superior finish
- Resistant coatings available
- Fail-safe lids with individual studs for security
- Bronze wing nuts for convenience
- 90° elbow and 45° sweep on outlet for staggered in-line vertical installation
- CPVC standpipe for up-flow design
- Cartridge not included

CARTRIDGE MODEL	FLOW RATE (GPM)	PIPE SIZE (IN.) (NPT)	DRAIN (IN.) (NPT)	FILTER HEIGHT	FLOOR SPACE REQUIREMENTS	Service Height Requirements	Shipping Weight
HUR-40-HP	Up to 50	2	1	21" 54 cm	15" x 15"	31" 79 cm	40 lbs 18 kg
HUR-90-HP	Up to 100	2	1	31" 79 cm	15" x 15"	51" 130 cm	51 lbs 23 kg
HUR-170HP	Up to 150	2	1	41" 105 cm	15" x 15"	72" 183 cm	64 lbs 29 kg

## ® HARMSCO BAG FILTERS

### FEATURES

Harmsco® Bag Housings utilize patented technology combined with superior bag filtration.

- ◆ All Housings are 304 Stainless Steel
- ◆ All Internal Parts are Stainless Steel
- ◆ All Units Come Electro-polished and Passivated
- ◆ Housing Seal is Standard Buna-N
- ◆ *Viton optional for higher temperatures*
- ◆ Drill-in-place Legs

### SPECIFICATIONS

#1 - The bag filter shall be constructed of electro-polished, welded, passivated, 304 stainless steel with a band clamp type top enclosure and 1 ½" or 2" female NPT inlet and outlet fittings. Filter shall be 32 ½" height, with a pressure rating of 150 psi and a temperature rating of 200°F. The recommended flow rate shall be 90 gpm as a guideline. Actual flow rates will vary based on pressure, temperature, viscosity, and bag type, solids loading and other factors. The bag filter and housing shall be a Harmsco® Bag #1. Order as Part N° HBCB-1-X-EXT, where X is inlet and outlet pipe size. Use "1.5" for 1 ½" pipe and "2" for 2" pipe.

#2 - The bag filter shall be constructed of electro-polished, welded, passivated, 304 stainless steel with a band clamp type top enclosure and 1 ½" or 2" female NPT inlet and outlet fittings. Filter shall be 42 ¾" height, with a pressure rating of 150 psi and a temperature rating of 200°F. The recommended flow rate shall be 200 gpm as a guideline. Actual flow rates will vary based on pressure, temperature, viscosity, and bag type, solids loading and other factors. The bag filter and housing shall be a Harmsco® Bag #2. Order as Part N° HBCB-2-X-EXT, where X is inlet and outlet pipe size. Use "1.5" for 1 ½" pipe and "2" for 2" pipe.

Bag filters shall be either polypropylene or polyethylene with micron ratings of 1, 5, 10, 15, 25, 50, 100 or 200 as specified at time of order. Order Part N° HXX-GYPS-EA where XX is either PO for polypropylene or PE for polyethylene and Y is 1 for #1 bag filters and 2 for #2 bag filters. For example a 10 micron polypropylene filter for a number 2 filter housing would be HPO-G2PS-EA

### Bag Housing #2

Basket  
Extended Area  
Optional

