

# HARMSCO®

## Premium High-Temperature Cartridges

**Industrial Grade**

### Designed for Hurricane® and WaterBetter® Housings

High temperature pleated cartridges for high capacity filtration.  
Two types of filter media for flexibility: Polyester Plus™  
and Cellulose Phenolic.

- **High flow capability**
- Two types of pleated media for flexibility
- Lower overall operating cost
- Longer filter runs for fewer change outs
- Increased contaminant removal
- Two temperature ratings to choose from:  
200°F (93°C) and 250°F (121°C)

### Features

- ▶ Fewer cartridges for fewer change outs and lower maintenance cost
- ▶ Pleated filter media provides higher flow rates and lower initial pressure drop
- ▶ Pleated surface area provides higher loading capacity for longer filter life and increased particle removal
- ▶ Aqueous and oil based fluid applications
- ▶ High surface area (40, 90 and 170 sq. ft.) in a single cartridge design

### Applications

- ▶ Hot Water Loops
- ▶ Boiler Make-up Water
- ▶ Petrochemical
- ▶ Lubricating Oil
- ▶ Cutting Fluids
- ▶ Solvents
- ▶ Distillate Fuel
- ▶ Fuel Oil
- ▶ Hydraulic Fluids
- ▶ Bio Fuels



**Cellulose Phenolic**  
90 and 170

**Polyester Plus™**  
40, 90 and 170

## Premium High-Temperature Cartridges

### Specifications

- ▶ **Filter media:** polyester or cellulose phenolic
- ▶ **End Caps:** injection molded (Suffix HT) or powder coated metal (Suffix HTM)
- ▶ **Temperature:** up to 200°F (93°C) w/suffix HT; up to 250°F (121°C) w/suffix HTM
- ▶ **Center Core:** powder coated perforated metal
- ▶ **pH:** 6.5 to 9.5
- ▶ **Change Out:** 25 PSI ΔP (1.7 bar)
- ▶ **O-Rings & Sealing Grommet:** Buna N standard, optional Viton available

### Cartridge Selection/Sizing Guide

**7-3/4" O.D.** Temperature ratings based on pressure and time under load.

| Product Code                                     | Nominal Micron Rating | Media (sq ft) | Recommended Flow Rate* (GPM) | Length (in) | No./Case |
|--|-----------------------|---------------|------------------------------|-------------|----------|
| <b>Polyester Plus</b> - rated up to 200°F (93°C) |                       |               |                              |             |          |
| 9-5/8" HC/40-20HT                                | 20                    | 40            | 35                           | 9-5/8       | 1        |
| 9-5/8" HC/40-50HT                                | 50                    | 40            | 35                           | 9-5/8       | 1        |
| 19-1/2" HC/90-5HT                                | 5                     | 90            | 70                           | 19-1/2      | 1        |
| 19-1/2" HC/90-10HT                               | 10                    | 90            | 70                           | 19-1/2      | 1        |
| 19-1/2" HC/90-20HT                               | 20                    | 90            | 70                           | 19-1/2      | 1        |
| 19-1/2" HC/90-50HT                               | 50                    | 90            | 70                           | 19-1/2      | 1        |
| 30-3/4" HC/170-5HT                               | 5                     | 170           | 105                          | 30-3/4      | 1        |
| 30-3/4" HC/170-10HT                              | 10                    | 170           | 105                          | 30-3/4      | 1        |
| 30-3/4" HC/170-20HT                              | 20                    | 170           | 105                          | 30-3/4      | 1        |
| 30-3/4" HC/170-50HT                              | 50                    | 170           | 105                          | 30-3/4      | 1        |

**Polyester Plus** - rated up to 250°F (121°C)

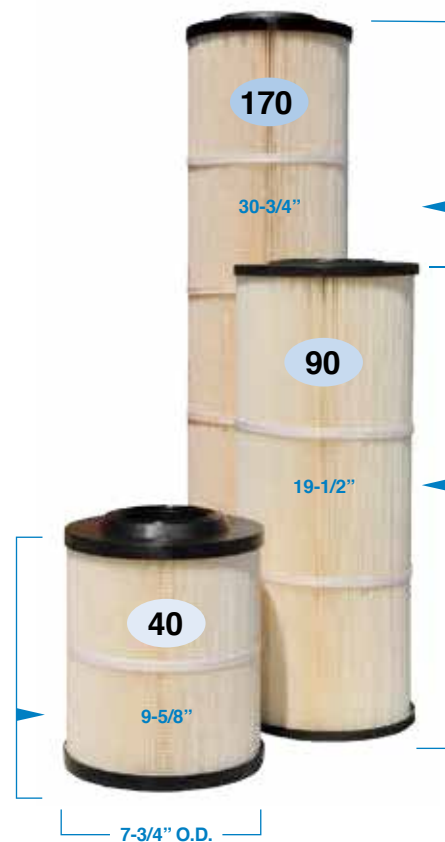
|                      |    |     |     |        |   |
|----------------------|----|-----|-----|--------|---|
| 9-5/8" HC/40-20HTM   | 20 | 40  | 35  | 9-5/8  | 1 |
| 9-5/8" HC/40-50HTM   | 50 | 40  | 35  | 9-5/8  | 1 |
| 19-1/2" HC/90-5HTM   | 5  | 90  | 70  | 19-1/2 | 1 |
| 19-1/2" HC/90-10HTM  | 10 | 90  | 70  | 19-1/2 | 1 |
| 19-1/2" HC/90-20HTM  | 20 | 90  | 70  | 19-1/2 | 1 |
| 19-1/2" HC/90-50HTM  | 50 | 90  | 70  | 19-1/2 | 1 |
| 30-3/4" HC/170-5HTM  | 5  | 170 | 105 | 30-3/4 | 1 |
| 30-3/4" HC/170-10HTM | 10 | 170 | 105 | 30-3/4 | 1 |
| 30-3/4" HC/170-20HTM | 20 | 170 | 105 | 30-3/4 | 1 |
| 30-3/4" HC/170-50HTM | 50 | 170 | 105 | 30-3/4 | 1 |

**Cellulose Phenolic** - rated up to 200°F (93°C)

|                      |   |     |     |        |   |
|----------------------|---|-----|-----|--------|---|
| 19-1/2" HC/90-5CPHT  | 5 | 90  | 70  | 19-1/2 | 1 |
| 30-3/4" HC/170-5CPHT | 5 | 170 | 105 | 30-3/4 | 1 |

**Cellulose Phenolic** - rated up to 250°F (121°C)

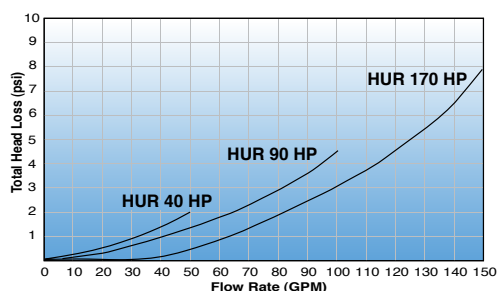
|                       |   |     |     |        |   |
|-----------------------|---|-----|-----|--------|---|
| 19-1/2" HC/90-5CPHTM  | 5 | 90  | 70  | 19-1/2 | 1 |
| 30-3/4" HC/170-5CPHTM | 5 | 170 | 105 | 30-3/4 | 1 |



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

### Pressure Drop

Pressure drop shown at right is for filter housing and 20 micron filter cartridge in clean water.



**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