HARMSCO® MUNICIPAL

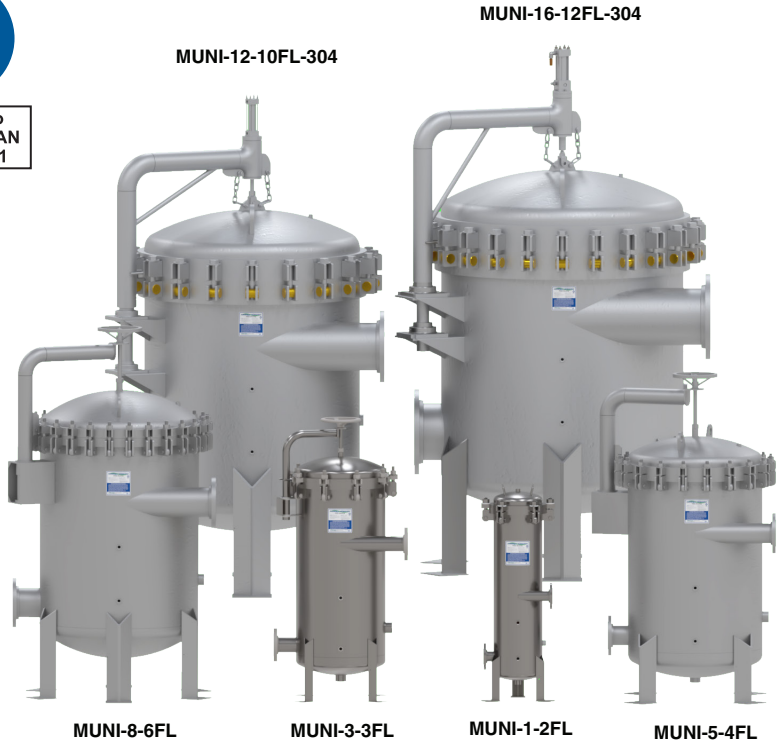
MUNI SB

Hurricane® Swing Bolt High Flow Housings

Lower Operation Cost

Harmsco® Hurricane® Swing Bolt filter housings 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

NSF Certified to NSF/ANSI/CAN Standard 61



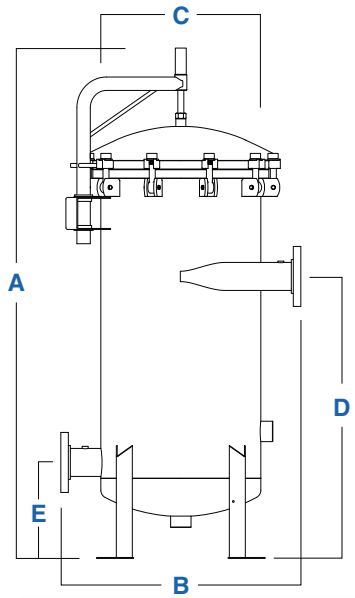
Features

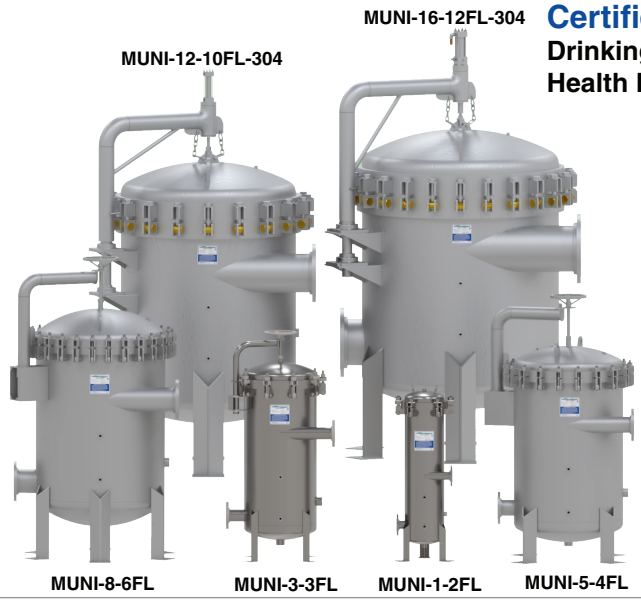
- Patented Up-flow Design
- NSF/ANSI/CAN Standard 61 listed
- Electro-polished finish - standard
- “Swing Bolt” closure system
- Combination cyclone separator and cartridge filter in a single compact design
- Manual hydraulic lid lift for ease of maintenance - various pump mounting options available
- 304 stainless steel housing and internal components - standard
- The industry’s largest selection of NSF/ANSI/CAN certified cartridges
- Built to ASME design standards
- Flow rates up to 2,400 GPM per housing
- LT2 flow rates to 1,600 GPM per housing
- 316L stainless steel and Duplex stainless steel construction options available

Applications

- Municipal Drinking Water
- Cooling Tower Filtration
- Surface Water Treatment Rule (SWTR) LT2
- Ground Water Under Direct Influence (GWUDI)
- Industrial Waste Water Treatment
- Reverse Osmosis Pre-filtration
- Ground Water Remediation

HARMSCO® MUNICIPAL Filtration Systems





Certified: NSF/ANSI/CAN Std 61

Drinking Water System Components - Health Effects

NSF

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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
MUNI-1-2FL	48”	15-1/2”	11”	23-5/8”	9-3/4”	2” Flange	3/4”	1.6 ft^2	77”
MUNI-3-3FL	64”	30”	20”	35-1/4”	12”	3” Flange	1-1/2”	4.5 ft^2	98-1/2”
MUNI-5-4FL	74”	37-1/2”	30”	38”	14-1/8”	4” Flange	1-1/2”	8.5 ft^2	98-1/2”
MUNI-8-6FL	84”	45-1/4”	35-3/8”	44-1/4”	20-1/2”	6” Flange	1-1/2”	14 ft^2	104-1/2”
MUNI-12-10FL	109-1/2”	59”	48”	55”	28-1/2”	10” Flange	2”	14.2 ft^2	115-1/2”
MUNI-16-12FL	116-1/2”	66”	54”	58”	30-1/2”	12” Flange	2”	18.7 ft^2	118-1/2”

Design Recommendations

Pre-filtration is always recommended due to potential changes in environmental conditions. Turbidity must not exceed 1-NTU prior to final filtration stage (HC/170-LT2 cartridge). For more information please contact Harmsco Filtration Products.

Pre-Filtration

Filter Model	N0. of Cartridges	Pleated Media Area (sq.ft.)	Max Flow Rate (GPM)	Max Flow Rate (LPM)	Max Flow Rate (M^3/HR)
MUNI-1-2FL	1	170	150	568	34
MUNI-3-3FL	3	510	450	1,703	102
MUNI-5-4FL	5	850	750	2,839	170
MUNI-8-6FL	8	1,360	1,200	4,542	272
MUNI-12-10FL	12	2,040	1,600	6,057	363
MUNI-16-12FL	16	2,720	2,400	9,085	545

Final Stage

Filter Model	N0. of Cartridges	Pleated Media Area (sq.ft.)	Max Flow Rate (GPM)	Max Flow Rate (LPM)	Max Flow Rate (M^3/HR)
MUNI-1-2FL	1	125	100	378	23
MUNI-3-3FL	3	375	300	1,135	68
MUNI-5-4FL	5	625	500	1,892	113
MUNI-8-6FL	8	1,000	800	3,028	181
MUNI-12-10FL	12	1,500	1,200	4,542	272
MUNI-16-12FL	16	2,000	1,600	6,057	363

Filter Specifications

- 304L or 316L stainless steel, EP or Matte finish
- Built to ASME design standards (not code stamped)
- Standpipe - 304L or 316L stainless steel
- Inlet/Outlet - flanged connections
- NSF 61 Listed Ball Valves (2) - 316 stainless steel
- O-ring housing seal, swing bolt closure
- NSF 61 Listed Pressure Gauges (2) - 316 stainless steel
- Pressure - 150 psi (10 bar) max.
- Temperature* - up to 140˚F (60˚C) with standard cartridges

* Temperature ratings based on pressure and time under load.

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.

HARMSCO® MUNICIPAL Filtration Systems
7169 49th Terrace North, Riviera Beach, FL 33407
(561) 848-9628 • Toll-free: (800) 327-3248 • E-mail: sales@harmsco.com
www.harmsco.com

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