



BAG SERIES

Polypropylene Filter Bag
Data Sheet

- Micron Ratings from 1 to 200 microns.
- Durable Polypropylene Felt Standard #1, #2, #3 and #4 Bags.
- Designed to fit most manufacturers housings.
- Polypropylene ring with handle for easy removal.
- High Particle Retention.
- Superb Solids-Loading capacity.
- FDA / USP Material Safety Compliance - All materials comply with FDA requirements for food and beverage contact per CFR Title 21 174.5, 177.1520 and 177.1630. All components meet USP Class VI Plastics.



HYDROSCIENTIFIC™ BAG SERIES FILTER BAGS

are durable, reusable polypropylene felt filter bags designed to fit most manufacturers housings. Precise pore sizes and micron ratings from 1 to 200 microns provide high particle retention and a superb solids-loading capacity.

HYDROSCIENTIFIC™ BAG SERIES FILTER BAGS

are ideal for applications requiring high efficiency and can be used in a wide range of applications. Glazed for minimal fiber migration and thermally-welded for strength, HydroScientific delivers on cost and quality.

BAG1 SERIES - LIQUID BAG FILTER SINGLE LAYER #1 SPECIFICATIONS						
Part Number	Description	Nominal Micron Rating (μ)	Case Qty (pcs)	Case Dimension (Inches)	Shipping Weight (lbs)	Shipping Weight (kgs)
BAG1-1M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	1	50	19" x 19" x 19"	24.0	10.9
BAG1-3M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	3	50	19" x 19" x 19"	20.5	9.2
BAG1-5M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	5	50	19" x 19" x 19"	20.5	9.2
BAG1-10M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	10	50	19" x 19" x 19"	20.5	9.2
BAG1-25M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	25	50	19" x 19" x 19"	20.5	9.2
BAG1-50M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	50	50	19" x 19" x 19"	20.5	9.2
BAG1-75M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	75	50	19" x 19" x 19"	20.0	9.0
BAG1-100M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	100	50	19" x 19" x 19"	20.0	9.0
BAG1-150M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	150	50	19" x 19" x 19"	20.0	9.0
BAG1-200M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #1, Polypropylene ring	200	50	19" x 19" x 19"	20.0	9.0

BAG2 SERIES - LIQUID BAG FILTER SINGLE LAYER #2 SPECIFICATIONS						
Part Number	Description	Nominal Micron Rating (μ)	Case Qty (pcs)	Case Dimension (Inches)	Shipping Weight (lbs)	Shipping Weight (kgs)
BAG2-1M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	1	40	31" x 17" x 19.3"	30.5	13.8
BAG2-3M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	3	50	31" x 17" x 19.3"	29.7	13.4
BAG2-5M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	5	50	31" x 17" x 19.3"	29.7	13.4
BAG2-10M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	10	50	31" x 17" x 19.3"	29.7	13.4
BAG2-25M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	25	50	31" x 17" x 19.3"	29.7	13.4
BAG2-50M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	50	50	31" x 17" x 19.3"	29.7	13.4
BAG2-75M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	75	50	31" x 17" x 19.3"	29.2	13.2
BAG2-100M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	100	50	31" x 17" x 19.3"	29.2	13.2
BAG2-150M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	150	50	31" x 17" x 19.3"	29.2	13.2
BAG2-200M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #2, Polypropylene ring	200	50	31" x 17" x 19.3"	29.2	13.2



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BAG3 SERIES - LIQUID BAG FILTER SINGLE LAYER #3 SPECIFICATIONS						
Part Number	Description	Nominal Micron Rating (μ)	Case Qty (pcs)	Case Dimension (Inches)	Shipping Weight (lbs)	Shipping Weight (kgs)
BAG3-1M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	1	50	19" x 19" x 19"	12.1	5.4
BAG3-3M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	3	100	19" x 19" x 19"	15.9	7.2
BAG3-5M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	5	100	19" x 19" x 19"	15.9	7.2
BAG3-10M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	10	100	19" x 19" x 19"	15.9	7.2
BAG3-25M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	25	100	19" x 19" x 19"	15.9	7.2
BAG3-50M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	50	100	19" x 19" x 19"	15.9	7.2
BAG3-75M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	75	100	19" x 19" x 19"	15.4	6.9
BAG3-100M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	100	100	19" x 19" x 19"	15.4	6.9
BAG3-150M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	150	100	19" x 19" x 19"	15.4	6.9
BAG3-200M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #3, Polypropylene ring	200	100	19" x 19" x 19"	15.4	6.9

BAG4 SERIES - LIQUID BAG FILTER SINGLE LAYER #4 SPECIFICATIONS						
Part Number	Description	Nominal Micron Rating (μ)	Case Qty (pcs)	Case Dimension (Inches)	Shipping Weight (lbs)	Shipping Weight (kgs)
BAG4-1M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	1	50	19" x 19" x 19"	14.3	6.4
BAG4-3M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	3	100	19" x 19" x 19"	18.7	8.4
BAG4-5M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	5	100	19" x 19" x 19"	18.7	8.4
BAG4-10M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	10	100	19" x 19" x 19"	18.7	8.4
BAG4-25M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	25	100	19" x 19" x 19"	18.7	8.4
BAG4-50M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	50	100	19" x 19" x 19"	18.7	8.4
BAG4-75M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	75	100	19" x 19" x 19"	18.2	8.2
BAG4-100M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	100	100	19" x 19" x 19"	18.2	8.2
BAG4-150M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	150	100	19" x 19" x 19"	18.2	8.2
BAG4-200M	HydroScientific™ Liquid Bag Filter, Polypropylene Felt, #4, Polypropylene ring	200	100	19" x 19" x 19"	18.2	8.2

MATERIALS OF CONSTRUCTION

Filter Media:	Polypropylene
Ring:	Polypropylene
Handle:	Polypropylene

OPERATIONAL DATA

Max. Operating Temperature:	195° F @ 20 psi (90° C @ 2.4 bar)
Max. Flow Rate:	Bag1 20 m ³ /hr (88 gal/min) Bag2 40 m ³ /hr (176 gal/min) Bag3 6 m ³ /hr (26.4 gal/min) Bag4 12 m ³ /hr (52.8 gal/min)

APPLICATIONS

- Process Water
- Water and Wastewater
- Prefiltration
- Beverages
- Lubricants
- Paints / Inks
- Chemicals
- Coatings

RECOMMENDED CHANGEOUT

Differential Pressure:	35 psid (2.4 bar)
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BAG SERIES DIMENSIONS

MODEL	A Length	B OD Diameter
BAG1	17"	7"
BAG2	32"	7"
BAG3	8"	4"
BAG4	14"	4"

CHEMICAL COMPATIBILITY

CHEMICAL	Compatibility Rating
Water / Potable Liquids	4
Alkalis	4
Organic Solvents	3
Oils	2
Oxidizing Acids	1
Dilute inorganic Acids	4
Strong Inorganic Acids	4

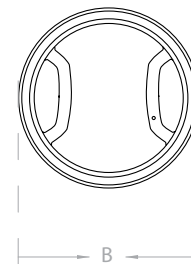
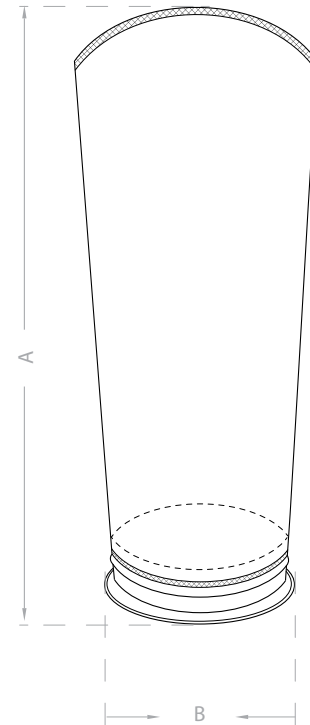
0 = Not Recommended 1 = Poor 2 = Fair 3 = Good 4 = Excellent

DO NOT use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

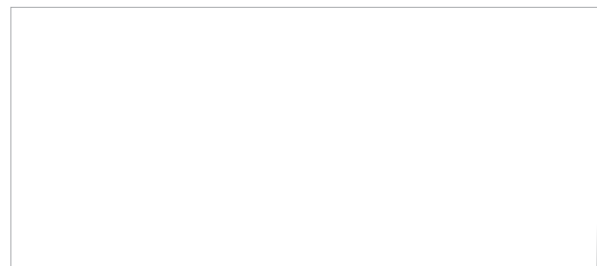
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