

Hydroscientific Industrial Filters

2023 - 2024



DP Series



AR Series



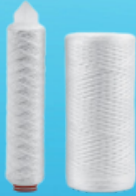
HBBC Series



HSC Series



HHFEC Series



SWX Series



SDX Flex Series



SPX Series



Bag Series

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Industrial Filters

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DP SERIES

Delta-Plus Cartridges
Data Sheet

- Absolute ratings from 1 to 100 microns.
- Surface pore structure extends water flow to reduce pressure drop.
- Thermally bonded end caps and connectors free of any binders.
- 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™ DP SERIES DELTA-PLUS CARTRIDGES

meet market needs for a pure Polypropylene depth filter with exceptional dirt holding capacity and performance. Delta-Plus cartridges are an outstanding value for industrial applications where long-life, low-pressure drop and high efficiency is required.

HYDROSCIENTIFIC™ DP SERIES DELTA-PLUS CARTRIDGES

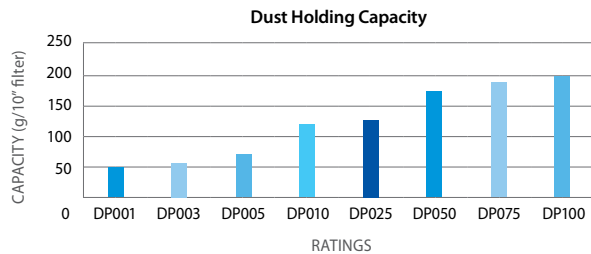
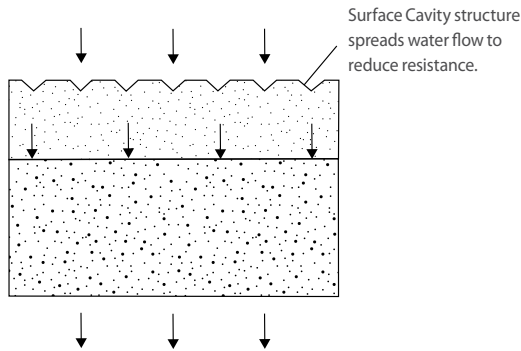
have continuous gradient pore structure which increases dust holding capacity. The surface of the cartridge is fiber fortified to prevent the release of micro fibers downstream. Manufactured of 100% pure Polypropylene for a wide range of process fluids.

HYDROSCIENTIFIC™ DP SERIES DELTA-PLUS CARTRIDGES

are made with 100% pure polypropylene and are free of surfactants, detergents and anti-static agents. DP series cartridges do not impart any substances into water which are known to or can cause adverse health effects to humans.

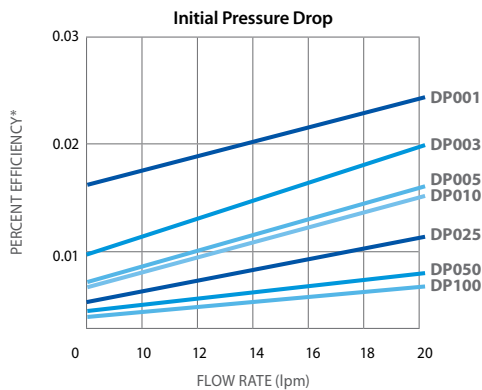
DP SERIES DELTA - PLUS CARTRIDGES SPECIFICATIONS									
	Part Number	Description	Micron Rating	O-Ring Material	End Cap Style	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	DP001SX1000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 10"	1	SILICONE	DOUBLE OPEN	40	12" x 10" x 20"	15	6.80
	DP001S51000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 10"	1	SILICONE	222/FIN	40	12" x 10" x 21"	15	6.80
	DP001SF1000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 10"	1	SILICONE	DOE	40	12" x 10" x 21"	15	6.80
20"	DP001SX2000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 20"	1	SILICONE	DOUBLE OPEN	20	12" x 10" x 20"	15	6.80
	DP001S52000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 20"	1	SILICONE	222/FIN	20	12" x 10" x 21"	15	6.80
	DP001SF2000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 20"	1	SILICONE	DOE	20	12" x 10" x 21"	15	6.80
30"	DP001SX3000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 30"	1	SILICONE	DOUBLE OPEN	20	12" x 10" x 30"	22	9.98
	DP001S53000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 30"	1	SILICONE	222/FIN	20	12" x 10" x 34"	22	9.98
	DP001SF3000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 30"	1	SILICONE	DOE	20	12" x 10" x 34"	22	9.98
40"	DP001SX4000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 40"	1	SILICONE	DOUBLE OPEN	20	12" x 10" x 40"	30	13.61
	DP001S54000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 40"	1	SILICONE	222/FIN	20	12" x 10" x 40"	30	13.61
	DP001SF4000	HydroScientific™ Delta-Plus Cartridges, 2.5" x 40"	1	SILICONE	DOE	20	12" x 10" x 40"	30	13.61

FLOW DETAIL



RETENTION EFFICIENCY (%)

Part Number	1 Micron	3 Micron	5 Micron	10 Micron	25 Micron	50 Micron	75 Micron	100 Micron
DP001	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
DP003	89.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
DP005	75.9	91.2	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
DP010	-	63.8	87.3	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
DP025	-	-	69.9	92.8	> 99.9	> 99.9	> 99.9	> 99.9
DP050	-	-	-	58.1	74.9	> 99.9	> 99.9	> 99.9
DP075	-	-	-	63.9	63.9	90.5	> 99.9	> 99.9
DP100	-	-	-	60.1	60.1	87.4	92.8	> 99.9



DISPLACES

Pentek:	Polydepth
Millipore:	Planargard Filter
Millipore:	Polygard-CR
Pall:	Profile II Filter- RMF Style
Cuno:	Deltaklean
Cuno:	Betapure
Filterite:	Nexis

OPERATIONAL DATA

Max. Pressure Drop:	100° F at 80 psi - 37° C at 5.6 kg/cm ²
	150° F at 60 psi - 65° C at 4.2 kg/cm ²
	180° F at 30 psi - 82° C at 2.1 kg/cm ²

Max. Operating Temperature:	180° F (82° C)
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RECOMMENDED CHANGEOUT

Differential Pressure:	30 psid (2.1 kg/cm ²)
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MATERIALS OF CONSTRUCTION

Filter Media:	Polypropylene
End Cap:	Polypropylene
O-Ring / Gasket:	EPDM - (Buna-N, Viton, Silicone and Viton Encapsulado PFA options)

MODEL # GUIDE

LEGEND

Length:	1000 = 10"	O-Ring Material:	E = EPDM (Black)	End Cap:	X = Double Open
	2000 = 20"		N = Buna-N		F = Double Open End (DOE)
	3000 = 30"		S = Silicone (Red)		0 = 222/Flat (SOE)
	4000 = 40"		V = Viton		5 = 222/Fin (SOE)
			T = Viton Encapsulated PFA		6 = 226/Flat (SOE)
					7 = 226/Fin (SOE)
					8 = Spring/Open

Micron:	001 = 1 Micron	F	0	5	6	7	8
	003 = 3 Micron						
	005 = 5 Micron						
	010 = 10 Micron						
	025 = 25 Micron						
	050 = 50 Micron						
	075 = 75 Micron						
	100 = 100 Micron						

End cap, special lengths and diameters available.

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AR SERIES

Absolute Rated Pleated Cartridges
Data Sheet

- Double layer structure, absolute rated.
- Thermal bonded end caps and connectors free of any binders.
- End connections fit most standard housings.
- 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™ AR SERIES ABSOLUTE RATED PLEATED CARTRIDGES

are Beta 5000 Absolute Rated Cartridges. Made from 100% pure Polypropylene, HydroScientific AR Series Cartridges comply with USP XXIII and FDA CFR Title 21 for food and beverage applications.

HYDROSCIENTIFIC™ AR SERIES ABSOLUTE RATED PLEATED CARTRIDGES

offer a longer service life and contain no binders, adhesives or surfactant for wide compatibility of fluids. They combine exceptional solids holding capacity with precise micron ratings. Layered double sheets of media provide absolute particle retention and long service life.

HYDROSCIENTIFIC™ AR SERIES ABSOLUTE RATED PLEATED CARTRIDGES

are free of surfactants, detergents and anti-static agents. AR series filter cartridges do not impart any substances into water which are known to or can cause adverse health effects to humans.

AR SERIES - ABSOLUTE RATED PLEATED CARTRIDGES SPECIFICATIONS									
	Part Number	Description	Micron Rating	O-Ring Material	End Cap Style	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	AR0020S01A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 10"	0.2	SILICONE	222/FLAT	20	15" x 12" x 14"	17	7.71
	AR0020S51A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 10"	0.2	SILICONE	222/FIN	20	15" x 12" x 14"	17	7.71
	AR0020SF1A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 10"	0.2	SILICONE	DOE	20	15" x 12" x 14"	17	7.71
20"	AR0020S02A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 20"	0.2	SILICONE	222/FLAT	20	15" x 12" x 23"	30	13.61
	AR0020S52A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 20"	0.2	SILICONE	222/FIN	20	15" x 12" x 23"	30	13.61
	AR0020SF2A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 20"	0.2	SILICONE	DOE	20	15" x 12" x 23"	30	13.61
30"	AR0020S03A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 30"	0.2	SILICONE	222/FLAT	20	15" x 12" x 35"	43	19.50
	AR0020S53A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 30"	0.2	SILICONE	222/FIN	20	15" x 12" x 35"	43	19.50
	AR0020SF3A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 30"	0.2	SILICONE	DOE	20	15" x 12" x 35"	43	19.50
40"	AR0020S04A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 40"	0.2	SILICONE	222/FLAT	20	15" x 12" x 44"	55	24.95
	AR0020S54A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 40"	0.2	SILICONE	222/FIN	20	15" x 12" x 44"	55	24.95
	AR0020SF4A	HydroScientific™ Absolute Rated Pleated Cartridges, 2.5" x 40"	0.2	SILICONE	DOE	20	15" x 12" x 44"	55	24.95

ADDITIONAL FEATURES

Inner Diameter (ID): 1"
Outer Diameter (OD): 2.75"

APPLICATIONS

- RO Pre-filtration
- DI Pre-filtration
- Cooling Tower
- Pharmacist
- Liquids of medium and low viscosity
- Food & Beverages
- Laboratory

MATERIALS OF CONSTRUCTION

Filter Media: Polypropylene
Outer Shell: Polypropylene
Core: Polypropylene
End Cap: Polypropylene
O-Ring: EPDM - (Buna-N, Viton, Silicone and Viton Encapsulado PFA options)

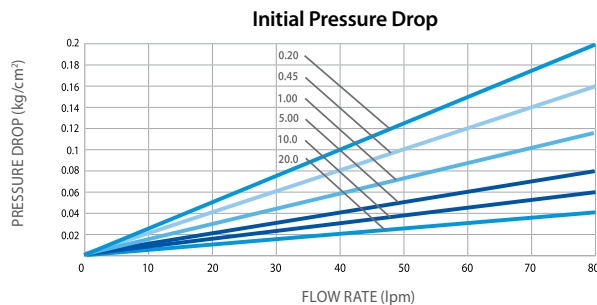
OPERATIONAL DATA

Max. Pressure Drop: 68 °F at 70 psi - 20 °C at 4.9 kg/cm²
140 °F at 40 psi - 60 °C at 2.8 kg/cm²
203 °F at 20 psi - 95 °C at 1.4 kg/cm²

Max. Operating Temperature: 203 °F (95 °C)

RECOMMENDED CHANGEOUT

Differential Pressure: 35.6 psid (2.5 kg/cm²)



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DISPLACES

Millipore: Polyguard - CN
Pall: HDC II Filter
Pall: Ultipleat Profile
Cuno: Poly Flow - G
Cuno: Polypro
Filterite: Poly - Fine II

RETENTION EFFICIENCY (%)

Part Number	0.2 Micron	0.45 Micron	1.0 Micron	5.0 Micron	10.0 Micron	20.0 Micron
AR0020	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
AR0045	62.3	> 99.9	> 99.9	> 99.9	> 99.9	> 99.9
AR0100	30.2	73.9	> 99.9	> 99.9	> 99.9	> 99.9
AR0500	-	46.8	87.3	> 99.9	> 99.9	> 99.9
AR1000	-	-	53.9	81.5	> 99.9	> 99.9
AR2000	-	-	-	59.3	86.9	> 99.9

MODEL # GUIDE

Absolute Rated Pleated Cartridge O-Ring Material Length

AR 0020 S 01 A

Micron End Cap Pre Flush

LEGEND

<p>Length:</p> <ul style="list-style-type: none"> 1 = 10" 2 = 20" 3 = 30" 4 = 40" 	<p>O-Ring Material:</p> <ul style="list-style-type: none"> E = EPDM (Black) N = Buna-N S = Silicone (Red) V = Viton T = Viton Encapsulated PFA 	<p>End Cap:</p> <ul style="list-style-type: none"> F = Double Open Cap 0 = 222/Flat (SOE) 5 = 222/Fin (SOE) 6 = 226/Flat (SOE) 7 = 226/Fin (SOE) 8 = Spring/Open
<p>Micron:</p> <ul style="list-style-type: none"> 0020 = 0.2 Micron 0045 = 0.45 Micron 0100 = 1 Micron 0500 = 5 Micron 1000 = 10 Micron 2000 = 20 Micron 	<p>Pre-Flush:</p> <ul style="list-style-type: none"> B = Pre-flush with DI water A = Non pre-flush 	

F

0

5

6

7

8

End cap, special lengths and diameters available.

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BIG FLOW™ FILTER CARTRIDGES

HBBC SERIES



HYDROSCIENTIFIC™ HBBC SERIES BIG FLOW™ CARTRIDGES

are a high-quality alternative to Big Bubba® filter cartridges. Big Flow™ filter cartridges can provide flow rates of up to 150 gpm and are designed to handle a working pressure of up to 125 psi.

HYDROSCIENTIFIC™ HBBC SERIES BIG FLOW™ CARTRIDGES

deliver high flow capability while reducing filter change-outs. Their 100% binder free FDA CFR 21 compliant material is ideal for use in applications where a durable, cleanable**, reliable and reusable** cartridge is required.



HBBC SERIES - PLEATED BIG FLOW™ FILTER CARTRIDGE SPECIFICATIONS

Part Number	Description	Material	Nominal Micron Rating (μ)	Max. Flow Rate (gpm)	Max. Flow Rate (lpm)	Max. Flow Rate (m³/hr)	Box Dimension (Inches)	Case Qty (pcs)
HBBC-150-P1	HydroScientific™ Pleated Big Flow Filter Cartridge	PP	1	150	567.8	36	7" x 7" x 31"	1
HBBC-150-P5	HydroScientific™ Pleated Big Flow Filter Cartridge	PP	5	150	567.8	36	7" x 7" x 31"	1
HBBC-150-P20	HydroScientific™ Pleated Big Flow Filter Cartridge	PP	20	150	567.8	36	7" x 7" x 31"	1
HBBC-150-P50	HydroScientific™ Pleated Big Flow Filter Cartridge	PP	50	150	567.8	36	7" x 7" x 31"	1
HBBC-150-P150	HydroScientific™ Pleated Big Flow Filter Cartridge	PP	150	150	567.8	36	7" x 7" x 31"	1

HBBC SERIES - DEPTH BIG FLOW™ FILTER CARTRIDGE SPECIFICATIONS

Part Number	Description	Material	Nominal Micron Rating (μ)	Max. Flow Rate (gpm)	Max. Flow Rate (lpm)	Max. Flow Rate (m³/hr)	Box Dimension (Inches)	Case Qty (pcs)
HBBC-150-D1	HydroScientific™ Depth Big Flow Filter Cartridge	PP	1	100	378.5	22.71	7" x 7" x 31"	1
HBBC-150-D5	HydroScientific™ Depth Big Flow Filter Cartridge	PP	5	100	378.5	22.71	7" x 7" x 31"	1
HBBC-150-D20	HydroScientific™ Depth Big Flow Filter Cartridge	PP	20	100	378.5	22.71	7" x 7" x 31"	1
HBBC-150-D50	HydroScientific™ Depth Big Flow Filter Cartridge	PP	50	100	378.5	22.71	7" x 7" x 31"	1

HydroScientific recommends operation at 70% of maximum flow rate for optimum performance. Custom sizes available upon request.

PP = POLYPROPYLENE

** Pleated Cartridges only.

BIG FLOW™ FILTER CARTRIDGES

HBBC SERIES



APPLICATIONS

- Whole House Filtration
- Pre-Filtration for Reverse Osmosis
- Commercial Filtration
- Industrial Filtration
- Farms
- Car Washes
- Hotels
- Food Service
- Agricultural

FEATURES

- Cleanable and Reusable. **
- 1, 5, 20, 50 and 150 Nominal Micron Ratings.
- Surfactant and Binder Free.
- High Flow Rates.
- NSF Standard 61 Approved Material.
- Lower Initial Pressure Drop.
- Higher Loading Capacity.
- Longer Life, Longer Filter Runs.
- 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.

MATERIALS OF CONSTRUCTION

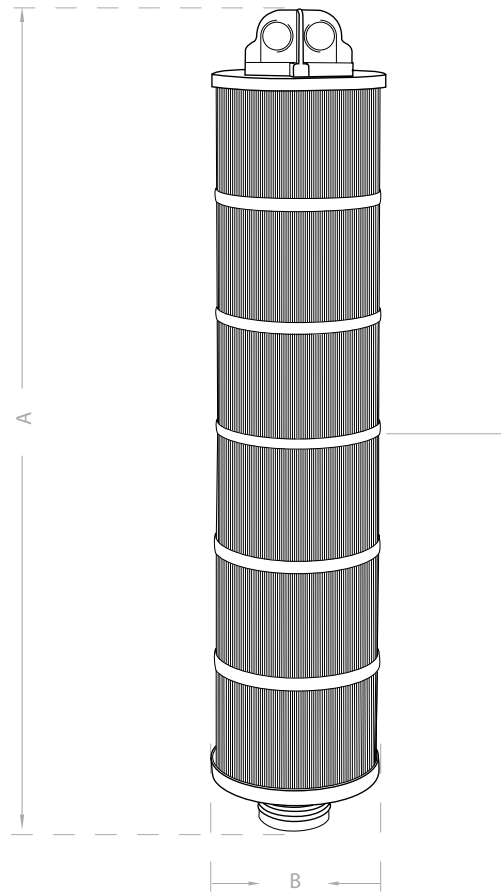
Filter Media:	Pleated - Polypropylene
	Depth - Polypropylene
End Caps:	PP
Center Tubes:	ABS or PVC
O-Ring:	EPDM

OPERATIONAL DATA

Max. Operating Temperature:	125 °F (52 °C)*
Max. Flow Rate:	Pleated - 150 gpm
	Depth - 100 gpm
Max. Working Pressure:	125 psi (8.75 bar)

RECOMMENDED CHANGEOUT

Differential Pressure:	30 psid (2.07 bar)
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HBBC SERIES DIMENSIONS

MODEL	A Length	B OD Diameter
HBBC	23"	6"

*Temperature limits vary and depend on pressure and time under load.

**Pleated Cartridges only.

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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PLEATED JUMBO HIGH FLOW FILTER CARTRIDGES

HSC SERIES

HYDROSCIENTIFIC™ PLEATED JUMBO CARTRIDGES

are high flow performance cartridges designed to meet and exceed operational requirements in high flow applications. Their 100% Polyester material is ideal for almost every application where a rugged, cleanable and reusable cartridge is required.

HYDROSCIENTIFIC™ PLEATED JUMBO CARTRIDGES

deliver high flow capability while reducing filter change-outs due to their high dirt holding capacity and increased particle removal. HSC Series Cartridges are surfactant and binder free, incorporate a built-in seal and are available in a wide range of sizes and micron ratings.

HSC SERIES - PLEATED JUMBO CARTRIDGE SPECIFICATIONS

Cartridge Length	Part Number	Description	Micron Rating (μ)	Rcmd. Flow Rate (gpm)**	Max. Flow Rate (gpm)**	Max. Flow Rate (lpm)**	Max. Flow Rate (m ³ /hr)**	Box Dimension (Inches)	Case Qty (pcs)
9 5/8"	HSC-40-0.2-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 9 5/8", Absolute	0.2	35	50	189	12	9" x 9" x 11"	1
	HSC-40-0.35-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 9 5/8", Absolute	0.35	35	50	189	12	9" x 9" x 11"	1
	HSC-40-0.45-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 9 5/8", Absolute	0.45	35	50	189	12	9" x 9" x 11"	1
	HSC-40-1-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 9 5/8", Absolute	1	35	50	189	12	9" x 9" x 11"	1
	HSC-40-0.35	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 9 5/8"	0.35	35	50	189	12	9" x 9" x 11"	1
	HSC-40-1	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 9 5/8"	1	35	50	189	12	9" x 9" x 11"	1
	HSC-40-5	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 9 5/8"	5	35	50	189	12	9" x 9" x 11"	1
	HSC-40-10	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 9 5/8"	10	35	50	189	12	9" x 9" x 11"	1
	HSC-40-20	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 9 5/8"	20	35	50	189	12	9" x 9" x 11"	1
	HSC-40-50	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 9 5/8"	50	35	50	189	12	9" x 9" x 11"	1
19 1/2"	HSC-90-0.2-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 19 1/2", Absolute	0.2	70	100	378	24	9" x 9" x 21"	1
	HSC-90-0.35-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 19 1/2", Absolute	0.35	70	100	378	24	9" x 9" x 21"	1
	HSC-90-0.45-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 19 1/2", Absolute	0.45	70	100	378	24	9" x 9" x 21"	1
	HSC-90-1-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 19 1/2", Absolute	1	70	100	378	24	9" x 9" x 21"	1
	HSC-90-0.35	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 19 1/2"	0.35	70	100	378	24	9" x 9" x 21"	1
	HSC-90-1	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 19 1/2"	1	70	100	378	24	9" x 9" x 21"	1
	HSC-90-5	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 19 1/2"	5	70	100	378	24	9" x 9" x 21"	1
	HSC-90-10	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 19 1/2"	10	70	100	378	24	9" x 9" x 21"	1
	HSC-90-20	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 19 1/2"	20	70	100	378	24	9" x 9" x 21"	1
	HSC-90-50	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 19 1/2"	50	70	100	378	24	9" x 9" x 21"	1
30 3/4"	HSC-170-0.2-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 30 3/4", Absolute	0.2	105	150	568	36	9" x 9" x 32"	1
	HSC-170-0.35PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 30 3/4", Absolute	0.35	105	150	568	36	9" x 9" x 32"	1
	HSC-170-0.45PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 30 3/4", Absolute	0.45	105	150	568	36	9" x 9" x 32"	1
	HSC-170-1-PPA	HydroScientific™ Pleated All Poly Jumbo, 7 3/4" x 30 3/4", Absolute	1	105	150	568	36	9" x 9" x 32"	1
	HSC-170-0.35	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	0.35	105	150	568	36	9" x 9" x 32"	1
	HSC-170-1	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	1	105	150	568	36	9" x 9" x 32"	1
	HSC-170-5	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	5	105	150	568	36	9" x 9" x 32"	1
	HSC-170-10	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	10	105	150	568	36	9" x 9" x 32"	1
	HSC-170-20	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	20	105	150	568	36	9" x 9" x 32"	1
	HSC-170-50	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	50	105	150	568	36	9" x 9" x 32"	1
HSC-170-100	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	100	105	150	568	36	9" x 9" x 32"	1	
HSC-170-150	HydroScientific™ Pleated Synthetic Jumbo, 7 3/4" x 30 3/4"	150	105	150	568	36	9" x 9" x 32"	1	

PLEATED JUMBO HIGH FLOW FILTER CARTRIDGES

HSC SERIES



APPLICATIONS

- Desalination Prefiltration
- Residential, Commercial, Industrial
- Cooling Tower Filtration
- Whole House Filtration
- Process Water
- Well Water
- Industrial Waste Water Treatment
- Reverse Osmosis Prefiltration

FEATURES

- Available in three sizes 9 5/8", 19 1/2" and 30 3/4". *
- Cleanable and reusable in most micron ratings and filtration applications.
- 0.2, 0.35, 0.45, 1, 5, 10, 20, 50, 100 and 150 Micron Ratings.
- Complies with NSF/ANSI Standard 61 Material Safety Requirements.
- 100% Surfactant and Binder Free.
- High Flow Rates, Lower Initial Pressure Drop.
- Longer Life, Longer Filter Runs.
- FDA / USP Material Safety Compliant.

OPERATIONAL DATA

Max. Operating Temperature: 140 °F (60 °C)***
 - Synthetic Cartridge
 176 °F (80 °C)***
 - All Poly Cartridge

MATERIALS OF CONSTRUCTION

Filter Media: Pleated Polyester
 End Caps: Platisol
 Center Tubes: ABS or PVC

Filter Media (Absolute): Polypropylene
 End Caps (Absolute): Polypropylene
 Center Tubes (Absolute): Polypropylene

* Custom sizes available upon request.

** HydroScientific recommends operation at 70% of maximum flow rate for optimum performance.

*** Temperature limits vary and depend on pressure and time under load.

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.

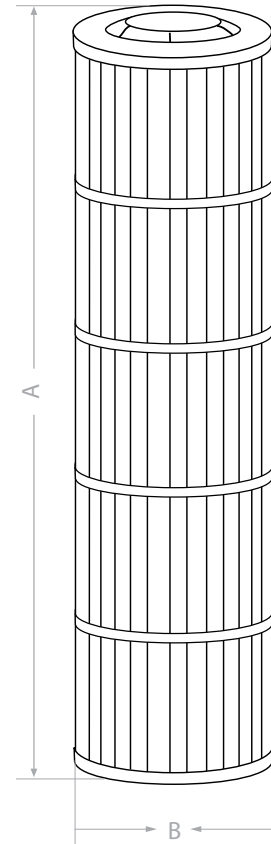
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HSC SERIES DIMENSIONS

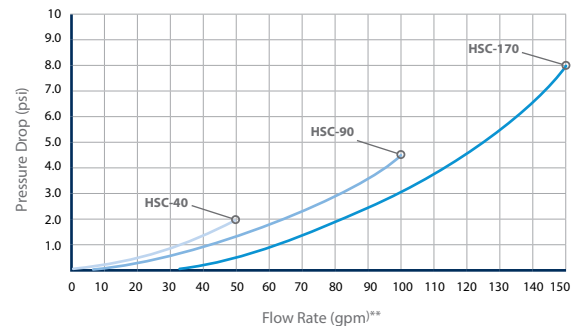
MODEL	A Length	B Diameter
HSC-40	9 5/8"	7 3/4"
HSC-90	19 1/2"	7 3/4"
HSC-170	30 3/4"	7 3/4"

HSC SERIES SPECIFICATIONS

MODEL	Media (sq ft)
HSC-40	40
HSC-90	90
HSC-170	170



INITIAL PRESSURE DROP



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



HIGH FLOW FILTER CARTRIDGES

HHFEC SERIES



HYDROSCIENTIFIC™ HHFEC HIGH FLOW CARTRIDGES

are highly efficient and easy to use cartridges designed for residential, commercial and light industrial filtration applications. Their rigid outer cage replaces costly bag filter baskets and provide an easy to use push/pull application.

HYDROSCIENTIFIC™ HHFEC HIGH FLOW CARTRIDGES

deliver high flow capability while reducing filter change-outs due to their high dirt holding capacity and increased particle removal. HHFEC Series Cartridges are designed for high flow and long service life. Available in a wide range of sizes and micron ratings.



HHFEC SERIES - HIGH FLOW CARTRIDGE SPECIFICATIONS

Part Number	Description	Material	Nominal Micron Rating (μ)	Max. Flow Rate (gpm)	Max. Flow Rate (lpm)	Max. Flow Rate (m ³ /hr)	Box Dimension (Inches)	Box Qty (pcs)
HHFEC-0.5	HydroScientific™ High Flow, 23"	PP	0.5	60	227.2	13.63	7" x 7" x 24"	1
HHFEC-1	HydroScientific™ High Flow, 23"	PP	1	80	302.8	18.17	7" x 7" x 24"	1
HHFEC-5	HydroScientific™ High Flow, 23"	PP	5	120	454.2	27.25	7" x 7" x 24"	1
HHFEC-10	HydroScientific™ High Flow, 23"	PP	10	150	567.8	34.07	7" x 7" x 24"	1
HHFEC-20	HydroScientific™ High Flow, 23"	PP	20	150	567.8	34.07	7" x 7" x 24"	1
HHFEC-50	HydroScientific™ High Flow, 23"	PP	50	150	567.8	34.07	7" x 7" x 24"	1
HHFEC-70	HydroScientific™ High Flow, 23"	PP	70	150	567.8	34.07	7" x 7" x 24"	1

PP = POLYPROPYLENE

HIGH FLOW FILTER CARTRIDGES

HHFEC SERIES



APPLICATIONS

- RO Systems
- Water
- Coolants
- Food & Beverage
- Wastewater
- Sea Water
- Desalination
- Chemicals
- Electronics
- Power

FEATURES

- High Flow Rates.
- All polypropylene construction.
- 0.5, 1, 5, 10, 20, 50 and 70 Nominal Micron Ratings.
- 98% retention ratings from .5 to 70 microns.
- Handle provides fast and easy push / pull installation.
- O-ring seal on cartridge eliminates bypass.
- Inside out flow retains contaminant during change out.
- Pleated media designed for high flow and long service life.
- Thermally bonded filter structure.
- NSF Standard 61 Approved Material.
- 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.

MATERIALS OF CONSTRUCTION

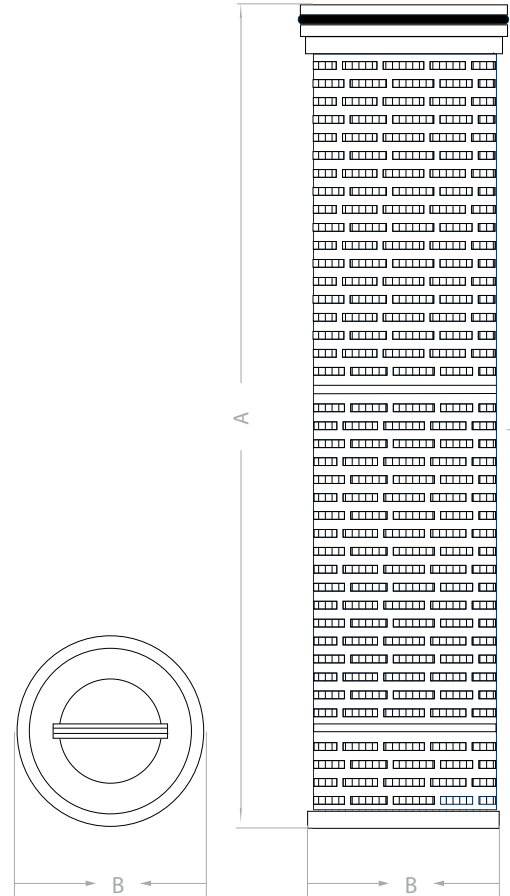
Filter Media:	Polypropylene
End Caps:	Polypropylene
Body:	Polypropylene
Gaskets:	EPDM standard*

OPERATIONAL DATA

Max. Operating Temperature:	140 °F @ 20 psi** (60 °C @ 1.4 bar)
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RECOMMENDED CHANGEOUT

Differential Pressure:	15 psid (1.0 bar)
------------------------	-------------------



HHFEC SERIES DIMENSIONS

MODEL	A Length	B OD Diameter
HHFEC	23"	6"

* Buna-N, Viton, Silicone available upon request.

** Temperature limits vary and depend on pressure and time under load.



Certified to
NSF/ANSI/CAN 61
and NSF/ANSI 372

COMPONENT

STRING WOUND CARTRIDGES

SWX SERIES

HYDROSCIENTIFIC™ SWX SERIES STRING WOUND CARTRIDGES

a cost effective solution for the reduction of sand, silt, rust, dirt and scale particles. Made from 100% Polypropylene cord, SWX Series String Wound Cartridges can withstand temperatures of up to 165 °F (73.9 °C). SWX Series filter cartridges are suitable for a variety of applications including residential and commercial applications using both municipal and well water. Different wound patterns for different micron ratings ensure that you are getting the right product for the right application. NSF/ANSI/CAN 61 & 372 certified.

HYDROSCIENTIFIC™ SWX SERIES STRING WOUND CARTRIDGES

are made with 100% pure polypropylene and are free of surfactants, detergents and anti-static agents. SWX series filter cartridges do not impart any substances into water which are known to or can cause adverse health effects to humans. SWX polypropylene media complies with the appropriate U.S. Food and Drug Administration guidelines, as outlined in the Code of Federal regulations, Title 21, Sections 177.1520 (a), (1) and Section 177.1520 (c), (1.1).

SWX SERIES - 2.5" STRING WOUND CARTRIDGE SPECIFICATIONS

	Part Number	Description	Material	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	SWX-25-10-0.5	2.5" x 9.875"	PP	0.5	40	13" x 11" x 21"	17.2	7.80
	SWX-25-1001	2.5" x 9.875"	PP	1	40	13" x 11" x 21"	17.2	7.80
	SWX-25-1005	2.5" x 9.875"	PP	5	40	13" x 11" x 21"	17.2	7.80
	SWX-25-1010	2.5" x 9.875"	PP	10	40	13" x 11" x 21"	17.2	7.80
	SWX-25-1020	2.5" x 9.875"	PP	20	40	13" x 11" x 21"	17.2	7.80
	SWX-25-1030	2.5" x 9.875"	PP	30	40	13" x 11" x 21"	17.2	7.80
	SWX-25-1050	2.5" x 9.875"	PP	50	40	13" x 11" x 21"	17.2	7.80
SWX-25-10100	2.5" x 9.875"	PP	100	40	13" x 11" x 21"	17.2	7.80	
20"	SWX-25-20-0.5	2.5" x 20"	PP	0.5	20	13" x 11" x 21"	15.4	7
	SWX-25-2001	2.5" x 20"	PP	1	20	13" x 11" x 21"	15.4	7
	SWX-25-2005	2.5" x 20"	PP	5	20	13" x 11" x 21"	15.4	7
	SWX-25-2010	2.5" x 20"	PP	10	20	13" x 11" x 21"	15.4	7
	SWX-25-2020	2.5" x 20"	PP	20	20	13" x 11" x 21"	15.4	7
	SWX-25-2030	2.5" x 20"	PP	30	20	13" x 11" x 21"	15.4	7
	SWX-25-2050	2.5" x 20"	PP	50	20	13" x 11" x 21"	15.4	7
SWX-25-20100	2.5" x 20"	PP	100	20	13" x 11" x 21"	15.4	7	
30"	SWX-25-30-0.5	2.5" x 30"	PP	0.5	20	13" x 11" x 31"	23.1	10.50
	SWX-25-3001	2.5" x 30"	PP	1	20	13" x 11" x 31"	23.1	10.50
	SWX-25-3005	2.5" x 30"	PP	5	20	13" x 11" x 31"	23.1	10.50
	SWX-25-3010	2.5" x 30"	PP	10	20	13" x 11" x 31"	23.1	10.50
	SWX-25-3020	2.5" x 30"	PP	20	20	13" x 11" x 31"	23.1	10.50
	SWX-25-3030	2.5" x 30"	PP	30	20	13" x 11" x 31"	23.1	10.50
	SWX-25-3050	2.5" x 30"	PP	50	20	13" x 11" x 31"	23.1	10.50
SWX-25-30100	2.5" x 30"	PP	100	20	13" x 11" x 31"	23.1	10.50	
40"	SWX-25-40-0.5	2.5" x 40"	PP	0.5	20	13" x 11" x 41"	38	17.27
	SWX-25-4001	2.5" x 40"	PP	1	20	13" x 11" x 41"	38	17.27
	SWX-25-4005	2.5" x 40"	PP	5	20	13" x 11" x 41"	38	17.27
	SWX-25-4010	2.5" x 40"	PP	10	20	13" x 11" x 41"	38	17.27
	SWX-25-4020	2.5" x 40"	PP	20	20	13" x 11" x 41"	38	17.27
	SWX-25-4030	2.5" x 40"	PP	30	20	13" x 11" x 41"	38	17.27
	SWX-25-4050	2.5" x 40"	PP	50	20	13" x 11" x 41"	38	17.27
SWX-25-40100	2.5" x 40"	PP	100	20	13" x 11" x 41"	38	17.27	
50"	SWX-25-5005	2.5" x 50"	PP	5	20	13" x 11" x 51"	52	23.59

*Other Special lengths available upon request.

PP = POLYPROPYLENE

STRING WOUND CARTRIDGES

SWX SERIES



SWX SERIES - 4.5" STRING WOUND CARTRIDGE SPECIFICATIONS								
	Part Number	Description	Material	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	SWX-45-10-0.5	4.5" x 9.875"	PP	0.5	12	14" x 10" x 21"	19.4	8.8
	SWX-45-1001	4.5" x 9.875"	PP	1	12	14" x 10" x 21"	19.4	8.8
	SWX-45-1005	4.5" x 9.875"	PP	5	12	14" x 10" x 21"	19.4	8.8
	SWX-45-1010	4.5" x 9.875"	PP	10	12	14" x 10" x 21"	19.4	8.8
	SWX-45-1020	4.5" x 9.875"	PP	20	12	14" x 10" x 21"	19.4	8.8
	SWX-45-1030	4.5" x 9.875"	PP	30	12	14" x 10" x 21"	19.4	8.8
	SWX-45-1050	4.5" x 9.875"	PP	50	12	14" x 10" x 21"	19.4	8.8
20"	SWX-45-20-0.5	4.5" x 20"	PP	0.5	6	14" x 10" x 21"	17.6	8
	SWX-45-2001	4.5" x 20"	PP	1	6	14" x 10" x 21"	17.6	8
	SWX-45-2005	4.5" x 20"	PP	5	6	14" x 10" x 21"	17.6	8
	SWX-45-2010	4.5" x 20"	PP	10	6	14" x 10" x 21"	17.6	8
	SWX-45-2020	4.5" x 20"	PP	20	6	14" x 10" x 21"	17.6	8
	SWX-45-2030	4.5" x 20"	PP	30	6	14" x 10" x 21"	17.6	8
	SWX-45-2050	4.5" x 20"	PP	50	6	14" x 10" x 21"	17.6	8
	SWX-45-20100	4.5" x 20"	PP	100	6	14" x 10" x 21"	17.6	8

*Special lengths and diameter available.

PP = POLYPROPYLENE

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

FEATURES

- Manufactured from 100% Polypropylene Cord.
- Reduces sand, silt, rust and scale particles.
- High dirt holding capacity.
- NSF/ANSI/CAN 61 & 372 Certified.
- 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.

MATERIALS OF CONSTRUCTION

Filter Media: Polypropylene Fiber Cord

Core: Polypropylene

OPERATIONAL DATA

Temperature Range: 40 °F to 165 °F (4.4 °C to 73.9 °C)

RECOMMENDED CHANGEOUT

- 30 psi maximum - Dirty
- 10-15 psi optimum - Change out

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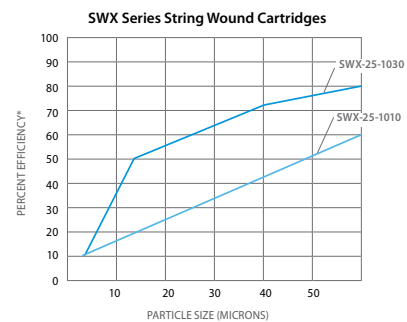
3001 S.W. 15th Street, Suite C, Deerfield Beach, FL 33442

sales@h2ofilter.com • www.h2ofilter.com

Toll-Free Number: 1-800-570-3464

International: 1-954-570-3464

Manufactured by Hydronix Water Technology



MODEL # GUIDE

String Wound Cartridge Length O-Ring Material

SWX-25-4001-S5

Outside Diameter Micron End Cap

LEGEND

Outside Diameter:	Micron:	O-Ring Material:	End Cap:
25 = 2.5"	0.5 = 0.5 Micron	E = EPDM (Black)	No symbol = Double Open
45 = 4.5"	01 = 1 Micron	N = Buna-N	F = Double Open Cap
10 = 9.875"	05 = 5 Micron	S = Silicone (Red)	0 = 222/Flat (SOE)
20 = 20"	10 = 10 Micron	V = Viton	5 = 222/Fin (SOE)
30 = 30"	20 = 20 Micron		6 = 226/Flat (SOE)
40 = 40"	30 = 30 Micron		7 = 226/Fin (SOE)
50 = 50"	50 = 50 Micron		8 = Spring/Open
	100 = 100 Micron		

F 0 5 6 7 8

End cap, special lengths and diameters available.



Certified to
NSF/ANSI/CAN 61
and NSF/ANSI 372

COMPONENT

SEDIMENT DEPTH CARTRIDGES

SDX FLEX SERIES

HYDROSCIENTIFIC™ SDX FLEX SERIES CARTRIDGES

are comprised of special matrix spun polypropylene layer designed to trap coarse and fine particles which increases reliability and service life over conventional cartridges. Utilizing the Flex Matrix technology, SDX Flex Series Cartridges do not utilize binders, anti-static agents or surfactants to produce an ideal surface filtration area.

HYDROSCIENTIFIC™ SDX FLEX SERIES CARTRIDGES

are produced with a precise and even matrix of polypropylene fibers which results in no foaming and are anti-static. Made with FDA approved Polypropylene, SDX Flex Series Cartridges are extremely resistant to chemicals and are safe to use in a wide range of applications. SDX Flex Series Cartridges are NSF/ANSI Certified to Standard 42, NSF/ANSI/CAN 61 & 372, and comply with FDA CFR 21 guidelines.

SDX FLEX SERIES - 2.5" SEDIMENT DEPTH CARTRIDGE SPECIFICATIONS

	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	SDX-25-10-0.5	2.5" x 9 7/8"	0.5	40	13" x 11" x 21"	14	6.35
	SDX-25-1001	2.5" x 9 7/8"	1	40	13" x 11" x 21"	14	6.35
	SDX-25-1005	2.5" x 9 7/8"	5	40	13" x 11" x 21"	14	6.35
	SDX-25-1010	2.5" x 9 7/8"	10	40	13" x 11" x 21"	14	6.35
	SDX-25-1020	2.5" x 9 7/8"	20	40	13" x 11" x 21"	14	6.35
	SDX-25-1050	2.5" x 9 7/8"	50	40	13" x 11" x 21"	14	6.35
	SDX-25-10100	2.5" x 9 7/8"	100	40	13" x 11" x 21"	14	6.35
20"	SDX-25-20-0.5	2.5" x 20"	0.5	20	13" x 11" x 21"	14	6.35
	SDX-25-2001	2.5" x 20"	1	20	13" x 11" x 21"	14	6.35
	SDX-25-2005	2.5" x 20"	5	20	13" x 11" x 21"	14	6.35
	SDX-25-2010	2.5" x 20"	10	20	13" x 11" x 21"	14	6.35
	SDX-25-2020	2.5" x 20"	20	20	13" x 11" x 21"	14	6.35
	SDX-25-2050	2.5" x 20"	50	20	13" x 11" x 21"	14	6.35
29"	SDX-25-29141	2.5" x 29 1/4"	1	20	13" x 11" x 31"	17	7.71
	SDX-25-29145	2.5" x 29 1/4"	5	20	13" x 11" x 31"	17	7.71
30"	SDX-25-3001	2.5" x 30"	1	20	13" x 11" x 31"	18	8.16
	SDX-25-3005	2.5" x 30"	5	20	13" x 11" x 31"	18	8.16
	SDX-25-3010	2.5" x 30"	10	20	13" x 11" x 31"	18	8.16
	SDX-25-3025	2.5" x 30"	25	20	13" x 11" x 31"	18	8.16
	SDX-25-3050	2.5" x 30"	50	20	13" x 11" x 31"	18	8.16
	SDX-25-3075	2.5" x 30"	75	20	13" x 11" x 31"	18	8.16
	SDX-25-30100	2.5" x 30"	100	20	13" x 11" x 31"	18	8.16
39"	SDX-25-3905	2.5" x 39"	5	20	13" x 11" x 41"	22	9.97
40"	SDX-25-4001	2.5" x 40"	1	20	13" x 11" x 41"	23	10.43
	SDX-25-4005	2.5" x 40"	5	20	13" x 11" x 41"	23	10.43
	SDX-25-4010	2.5" x 40"	10	20	13" x 11" x 41"	23	10.43
	SDX-25-4025	2.5" x 40"	25	20	13" x 11" x 41"	23	10.43
	SDX-25-4050	2.5" x 40"	50	20	13" x 11" x 41"	23	10.43
	SDX-25-4075	2.5" x 40"	75	20	13" x 11" x 41"	23	10.43
	SDX-25-40100	2.5" x 40"	100	20	13" x 11" x 41"	23	10.43
50"	SDX-25-5005	2.5" x 50"	5	20	13" x 11" x 51"	27	12.25

SEDIMENT DEPTH CARTRIDGES



SDX FLEX SERIES

SDX FLEX SERIES - 4.5" SEDIMENT DEPTH CARTRIDGE SPECIFICATIONS							
	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	SDX-45-1001	4.5" x 9 7/8"	1	12	10" x 15" x 21"	15	6.8
	SDX-45-1005	4.5" x 9 7/8"	5	12	10" x 15" x 21"	15	6.8
	SDX-45-1010	4.5" x 9 7/8"	10	12	10" x 15" x 21"	15	6.8
	SDX-45-1020	4.5" x 9 7/8"	20	12	10" x 15" x 21"	15	6.8
	SDX-45-1050	4.5" x 9 7/8"	50	12	10" x 15" x 21"	15	6.8
20"	SDX-45-2001	4.5" x 20"	1	6	10" x 15" x 21"	15	6.8
	SDX-45-2005	4.5" x 20"	5	6	10" x 15" x 21"	15	6.8
	SDX-45-2010	4.5" x 20"	10	6	10" x 15" x 21"	15	6.8
	SDX-45-2020	4.5" x 20"	20	6	10" x 15" x 21"	15	6.8
	SDX-45-2050	4.5" x 20"	50	6	10" x 15" x 21"	15	6.8

APPLICATIONS

- Ink
- Paint
- Plating
- Ultra Filtration
- Chemical liquid
- Reverse Osmosis
- Food & Beverage
- Electronic Industry

MAXIMUM DIFFERENTIAL PRESSURE

15 psid at 175 °F (1.0 bar at 80 °C)
 25 psid at 140 °F (1.7 bar at 60 °C)
 60 psid at 68 °F (4.13 bar at 20 °C)

OPERATIONAL DATA

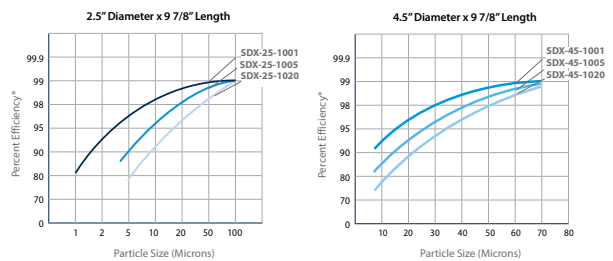
Max. Operating Temperature: 145 °F (63 °C)
 Max. Pressure Drop: 69 °F (20 °C) at 46.4 psi (3.2 kg/cm²)
 Temperature Range: 40 °F to 145 °F (4.4 °C to 79.4 °C)
 Max. Flow: 2-8 gpm**
 **Depending on micron rating.

MATERIALS OF CONSTRUCTION

Filter Media: 100% Polypropylene

4.5" DIAMETER SPECIFICATIONS

	Part Number	Initial ΔP (psi) at Flow Rate (gpm)
10"	SDX-45-1001	1 psi at 10 gpm
	SDX-45-1005	1 psi at 10 gpm
	SDX-45-1010	1 psi at 10 gpm
	SDX-45-1020	1 psi at 10 gpm
	SDX-45-1050	1 psi at 10 gpm
20"	SDX-45-2001	1 psi at 20 gpm
	SDX-45-2005	1 psi at 20 gpm
	SDX-45-2010	1 psi at 20 gpm
	SDX-45-2020	1 psi at 20 gpm
	SDX-45-2050	1 psi at 20 gpm



MODEL # GUIDE

Sediment Depth Cartridge Length O-Ring Material

SDX 25 40 01 S5

Outside Diameter Micron End Cap

LEGEND

Outside Diameter:	25 = 2.5" 45 = 4.5" 10 = 9 7/8" 20 = 20" 30 = 30" 40 = 40" 50 = 50"	Micron:	0.5 = 0.5 Micron 01 = 1 Micron 05 = 5 Micron 10 = 10 Micron 20 = 20 Micron 25 = 25 Micron 50 = 50 Micron 75 = 75 Micron 100 = 100 Micron	End Cap:	No symbol = Double Open F = Double Open Cap 0 = 222/Flat (SOE) 5 = 222/Fin (SOE) 6 = 226/Flat (SOE) 7 = 226/Fin (SOE) 8 = Spring/Open
Length:		O-Ring Material:	E = EPDM (Black) N = Buna-N S = Silicone (Red) V = Viton		

F

0

5

6

7

8

End cap, special lengths and diameters available.

RECOMMENDED CHANGEOUT

Differential Pressure: 21.75 psi (1.5 kg/cm²)

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.

*WARNING: 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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 Manufactured by Hydronix Water Technology



POLYESTER PLEATED CARTRIDGES

SPX SERIES



HYDROSCIENTIFIC™ SPX SERIES POLYESTER PLEATED CARTRIDGES

are manufactured from durable polyester to provide you with a superior pleated cartridge that is washable and reusable. The Polyester media is pleated around a Polypropylene core for added strength and the ends are immersed in a thermosetting Vinyl Plastisol which fuses the three components together forming a unified end cap and gasket. The cartridges are bacteria and chemical resistant and provide great dirt holding capacity to extend the time between cartridge change outs.

HYDROSCIENTIFIC™ SPX SERIES POLYESTER PLEATED CARTRIDGES

are made with 100% pure polypropylene and are free of surfactants, detergents and anti-static agents. SPX series filter cartridges do not impart any substances into water which are known to or can cause adverse health effects to humans.

SPX SERIES - 2.75" POLYESTER PLEATED CARTRIDGE SPECIFICATIONS

	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	SPX-275-100.35	2.75" x 9.875"	0.35	40	13" x 11" x 21"	14	6.35
	SPX-275-1001	2.75" x 9.875"	1	40	13" x 11" x 21"	14	6.35
	SPX-275-1001A	2.75" x 9.875"	1	40	13" x 11" x 21"	14	6.35
	SPX-275-1005	2.75" x 9.875"	5	40	13" x 11" x 21"	14	6.35
	SPX-275-1010	2.75" x 9.875"	10	40	13" x 11" x 21"	14	6.35
	SPX-275-1020	2.75" x 9.875"	20	40	13" x 11" x 21"	14	6.35
	SPX-275-1030	2.75" x 9.875"	30	40	13" x 11" x 21"	14	6.35
	SPX-275-1050	2.75" x 9.875"	50	40	13" x 11" x 21"	14	6.35
19.5"	SPX-275-10100	2.75" x 9.875"	100	40	13" x 11" x 21"	14	6.35
	SPX-275-1950.35	2.75" x 19.5"	0.35	20	13" x 11" x 21"	14	6.35
	SPX-275-19501	2.75" x 19.5"	1	20	13" x 11" x 21"	14	6.35
	SPX-275-19501A	2.75" x 19.5"	1	20	13" x 11" x 21"	14	6.35
	SPX-275-19505	2.75" x 19.5"	5	20	13" x 11" x 21"	14	6.35
	SPX-275-19510	2.75" x 19.5"	10	20	13" x 11" x 21"	14	6.35
	SPX-275-19520	2.75" x 19.5"	20	20	13" x 11" x 21"	14	6.35
	SPX-275-19530	2.75" x 19.5"	30	20	13" x 11" x 21"	14	6.35
20"	SPX-275-19550	2.75" x 19.5"	50	20	13" x 11" x 21"	14	6.35
	SPX-275-195100	2.75" x 19.5"	100	20	13" x 11" x 21"	14	6.35
	SPX-275-200.35	2.75" x 20"	0.35	20	13" x 11" x 21"	14	6.35
	SPX-275-2001	2.75" x 20"	1	20	13" x 11" x 21"	14	6.35
	SPX-275-2001A	2.75" x 20"	1	20	13" x 11" x 21"	14	6.35
	SPX-275-2005	2.75" x 20"	5	20	13" x 11" x 21"	14	6.35
	SPX-275-2010	2.75" x 20"	10	20	13" x 11" x 21"	14	6.35
	SPX-275-2020	2.75" x 20"	20	20	13" x 11" x 21"	14	6.35
20"	SPX-275-2030	2.75" x 20"	30	20	13" x 11" x 21"	14	6.35
	SPX-275-2050	2.75" x 20"	50	20	13" x 11" x 21"	14	6.35
	SPX-275-20100	2.75" x 20"	100	20	13" x 11" x 21"	14	6.35

POLYESTER PLEATED CARTRIDGES



SPX SERIES

SPX SERIES - 2.75" POLYESTER PLEATED CARTRIDGE SPECIFICATIONS							
	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
29.25"	SPX-275-292.35	2.75" x 29.25"	0.35	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29201	2.75" x 29.25"	1	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29201A	2.75" x 29.25"	1	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29205	2.75" x 29.25"	5	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29210	2.75" x 29.25"	10	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29220	2.75" x 29.25"	20	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29230	2.75" x 29.25"	30	20	13" x 11" x 31"	23.1	10.48
	SPX-275-29250	2.75" x 29.25"	50	20	13" x 11" x 31"	23.1	10.48
SPX-275-292100	2.75" x 29.25"	100	20	13" x 11" x 31"	23.1	10.48	
30"	SPX-275-300.35	2.75" x 30"	0.35	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3001	2.75" x 30"	1	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3001A	2.75" x 30"	1	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3005	2.75" x 30"	5	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3010	2.75" x 30"	10	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3020	2.75" x 30"	20	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3030	2.75" x 30"	30	20	13" x 11" x 31"	23.1	10.48
	SPX-275-3050	2.75" x 30"	50	20	13" x 11" x 31"	23.1	10.48
SPX-275-30100	2.75" x 30"	100	20	13" x 11" x 31"	23.1	10.48	
39"	SPX-275-390.35	2.75" x 39"	0.35	20	13" x 11" x 41"	26	11.80
	SPX-275-3901	2.75" x 39"	1	20	13" x 11" x 41"	26	11.80
	SPX-275-3901A	2.75" x 39"	1	20	13" x 11" x 41"	26	11.80
	SPX-275-3905	2.75" x 39"	5	20	13" x 11" x 41"	26	11.80
	SPX-275-3910	2.75" x 39"	10	20	13" x 11" x 41"	26	11.80
	SPX-275-3920	2.75" x 39"	20	20	13" x 11" x 41"	26	11.80
	SPX-275-3930	2.75" x 39"	30	20	13" x 11" x 41"	26	11.80
	SPX-275-3950	2.75" x 39"	50	20	13" x 11" x 41"	26	11.80
SPX-275-39100	2.75" x 39"	100	20	13" x 11" x 41"	26	11.80	
40"	SPX-275-400.35	2.75" x 40"	0.35	20	13" x 11" x 41"	26	11.80
	SPX-275-4001	2.75" x 40"	1	20	13" x 11" x 41"	26	11.80
	SPX-275-4001A	2.75" x 40"	1	20	13" x 11" x 41"	26	11.80
	SPX-275-4005	2.75" x 40"	5	20	13" x 11" x 41"	26	11.80
	SPX-275-4010	2.75" x 40"	10	20	13" x 11" x 41"	26	11.80
	SPX-275-4020	2.75" x 40"	20	20	13" x 11" x 41"	26	11.80
	SPX-275-4030	2.75" x 40"	30	20	13" x 11" x 41"	26	11.80
	SPX-275-4050	2.75" x 40"	50	20	13" x 11" x 41"	26	11.80
SPX-275-40100	2.75" x 40"	100	20	13" x 11" x 41"	26	11.80	
SPX SERIES - 4.5" POLYESTER PLEATED CARTRIDGE SPECIFICATIONS							
	Part Number	Description	Micron Rating	Case Quantity	Box Dimension (Inches)	Weight (lbs)	Weight (kgs)
10"	SPX-45-100.2A	4.5" x 9.875"	0.2	12	14" x 10" x 21"	12	5.44
	SPX-45-100.35	4.5" x 9.875"	0.35	12	14" x 10" x 21"	12	5.44
	SPX-45-1001	4.5" x 9.875"	1	12	14" x 10" x 21"	12	5.44
	SPX-45-1001A	4.5" x 9.875"	1	12	14" x 10" x 21"	12	5.44
	SPX-45-1005	4.5" x 9.875"	5	12	14" x 10" x 21"	12	5.44
	SPX-45-1010	4.5" x 9.875"	10	12	14" x 10" x 21"	12	5.44
	SPX-45-1020	4.5" x 9.875"	20	12	14" x 10" x 21"	12	5.44
	SPX-45-1030	4.5" x 9.875"	30	12	14" x 10" x 21"	12	5.44
	SPX-45-1050	4.5" x 9.875"	50	12	14" x 10" x 21"	12	5.44
	SPX-45-10100	4.5" x 9.875"	100	12	14" x 10" x 21"	12	5.44
20"	SPX-45-200.35	4.5" x 20"	0.35	6	14" x 10" x 21"	9	4.08
	SPX-45-2001	4.5" x 20"	1	6	14" x 10" x 21"	9	4.08
	SPX-45-2001A	4.5" x 20"	1	6	14" x 10" x 21"	9	4.08
	SPX-45-2005	4.5" x 20"	5	6	14" x 10" x 21"	9	4.08
	SPX-45-2010	4.5" x 20"	10	6	14" x 10" x 21"	9	4.08
	SPX-45-2020	4.5" x 20"	20	6	14" x 10" x 21"	9	4.08
	SPX-45-2030	4.5" x 20"	30	6	14" x 10" x 21"	9	4.08
	SPX-45-2050	4.5" x 20"	50	6	14" x 10" x 21"	9	4.08
SPX-45-20100	4.5" x 20"	100	6	14" x 10" x 21"	9	4.08	

*WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.



POLYESTER PLEATED CARTRIDGES

SPX SERIES

SPX SERIES - 2.75" FLOW RATES							
Microns	2.75" x 9.875"	2.75" x 19.5"	2.75" x 20"	2.75" x 29.25"	2.75" x 30"	2.75" x 39"	2.75" x 40"
1	4	8	8	25	25	25	25
5	7	14	14	25	25	25	25
10	7	14	14	25	25	25	25
20	8	16	16	25	25	25	25
30	8	16	16	25	25	25	25
50	10	20	20	30	30	40	40
100	12	24	24	35	35	46	46

SPX SERIES - 4.5" FLOW RATES		
Microns	4.5" x 9.875"	4.5" x 20"
1	15	30
5	20	40
10	20	40
20	20	40
30	20	40
50	20	40
100	25	50

Flow Rates in gpm.

WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

FEATURES

- Manufactured from durable Polyester.
- Made with FDA CFR 21 approved material.
- Bacteria and chemical resistant.
- Washable and reusable.
- 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.

OPERATIONAL DATA

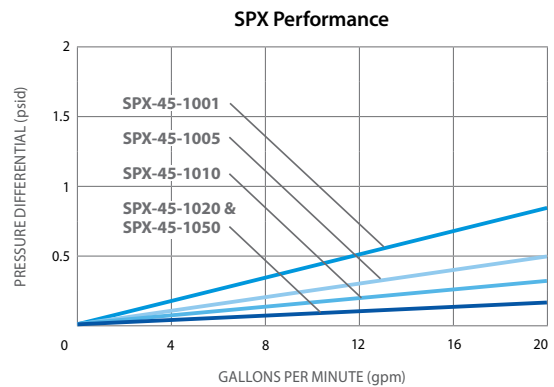
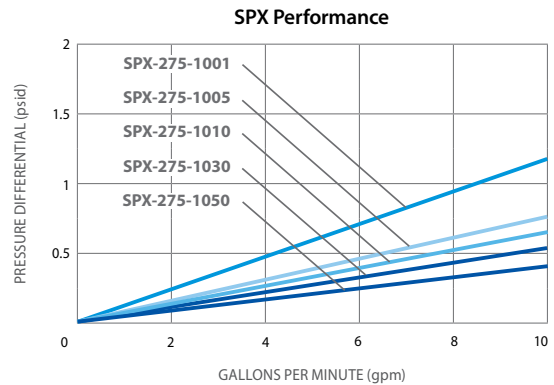
Temperature Range: 40 °F to 125 °F (4.4 °C to 51.7 °C)

MATERIALS OF CONSTRUCTION

Filter Media: Non-woven Polyester
 End Caps: Vinyl Plastisol
 Core: Polypropylene

RECOMMENDED CHANGEOUT

Differential Pressure: 30 psid (2.07 bar)



MODEL # GUIDE

Polyester Pleated Cartridge Length Retention Rating

SPX-45-100.2A

Outside Diameter Micron

LEGEND

Outside Diameter: 275 = 2.75"	Micron: 0.2 = 0.2 Micron	Retention Rating: A = Absolute
45 = 4.5"	0.35 = 0.35 Micron	
Length: 10 = 9.875"	01 = 1 Micron	
19 = 19.5"	05 = 5 Micron	
20 = 20"	10 = 10 Micron	
292 = 29.25"	20 = 20 Micron	
30 = 30"	30 = 30 Micron	
39 = 39"	50 = 50 Micron	
40 = 40"	100 = 100 Micron	



POLYPROPYLENE FILTER BAG

BAG1 / BAG2 SERIES



HYDROSCIENTIFIC™ BAG1 / BAG2 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™ BAG1 / BAG2 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

POLYPROPYLENE FILTER BAG

BAG1 / BAG2 SERIES



FEATURES

- Micron Ratings from 1 to 200 microns.
- Durable Polypropylene Felt Standard #1 and #2 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.

APPLICATIONS

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

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)

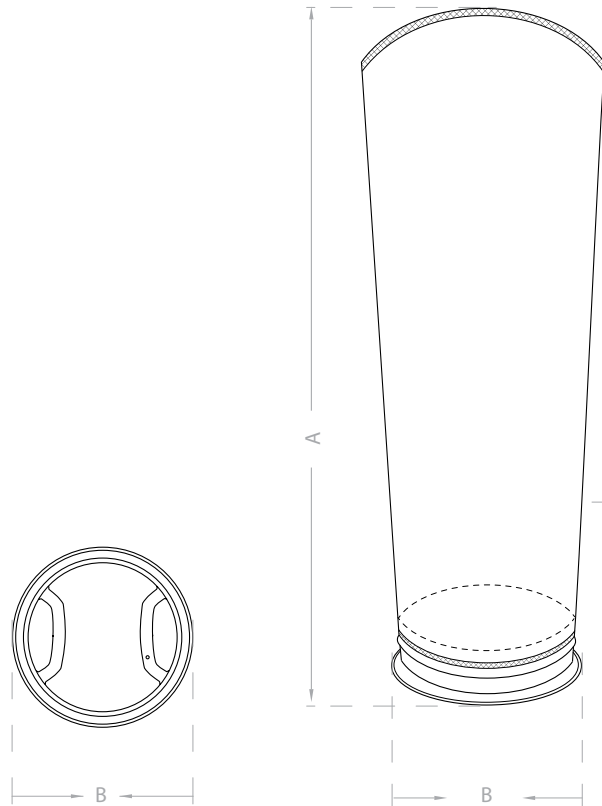
RECOMMENDED CHANGEOUT

Differential Pressure:	35 psid (2.4 bar)
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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



BAG1 / BAG2 SERIES DIMENSIONS

MODEL	A Length	B OD Diameter
BAG1	17"	7"
BAG2	32"	7"

MATERIALS OF CONSTRUCTION

Filter Media:	Polypropylene
Ring:	Polypropylene
Handle:	Polypropylene

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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