



FWPS - Spun Polypropylene Filter Cartridges

FWPS Series Spun Polypropylene Cartridges are fused and intertwined with polypropylene resin without any chemical glues, utilizing thermal fusion. The cartridge is constructed using 3 different layers with the largest fibers on the surface and smallest fibers inside. With the various fiber density, our filters have a high filtration rating, high hold capacity, low pressure drop. They can effectively remove contaminants, suspended solids, and particulate while providing efficient filtration and long service life.

Features:

- Three-layers structure cartridge, high contaminant holding capacity, long filter service life.
- 100% PP for compatibility with a wide range of process fluids.
- Micro-Denier melt-blown filtration fiber, high removal ratings.
- Formed by thermal bond without use of any binders and adhesives.
- The polypropylene material is chemical resistant and not prone to bacterial attack. It will not add any taste, color or odor to the water.
- Certified to NSF42 and FDA CFR Title 21.



Tested and certified by NSF international to NSF/ANSI 42 for material requirement only.



String Wound Filter Cartridges

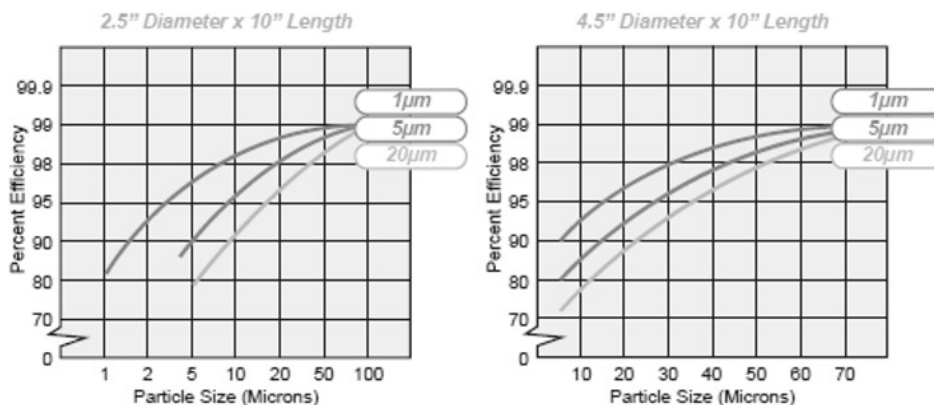
Size	Micron Rating	Item Number	Description	Cert.	Max Temp °C / °F		Qty/ Box	Box Dimensions cm/in	Weight kg/lbs
2.5" x 10"	1	FWPS1001	FWT Polyspun Cartridge, 10", 1 Micron	NSF 42	65°	150°	50	33x33x54 cm 13x13x54 in	6.8 kg 15 lbs
	5	FWPS1005	FWT Polyspun Cartridge, 10", 5 Micron						
	20	FWPS1020	FWT Polyspun Cartridge, 10", 20 Micron						
	50	FWPS1050	FWT Polyspun Cartridge, 10", 50 Micron						
2.5" x 20"	1	FWPS2001	FWT Polyspun Cartridge, 20", 1 Micron	NSF 42	65°	150°	25	33x33x54 cm 13x13x21 in	6.8kg 15Lbs
	5	FWPS2005	FWT Polyspun Cartridge, 20", 5 Micron						
	20	FWPS2020	FWT Polyspun Cartridge, 20", 20 Micron						
	50	FWPS2050	FWT Polyspun Cartridge, 20", 50 Micron						
2.5" x 30"	1	FWPS3001	FWT Polyspun Cartridge, 30", 1 Micron	NSF 42	65°	150°	20	33x28x79 cm 13x11x31 in	8.2 kg 18 Lbs
	5	FWPS3005	FWT Polyspun Cartridge, 30", 5 Micron						
	20	FWPS3020	FWT Polyspun Cartridge, 30", 20 Micron						
2.5" x 40"	1	FWPS4001	FWT Polyspun Cartridge, 40", 1 Micron	NSF 42	65°	150°	20	33x28x104cm 13x11x41 in	10.9 Kg 24 lbs
	5	FWPS4005	FWT Polyspun Cartridge, 40", 5 Micron						
	20	FWPS4020	FWT Polyspun Cartridge, 40", 20 Micron						



FWPS - Spun Polypropylene Filter Cartridges (cont)

Size	Micron Rating	Item Number	Description	Cert.	Max Temp °C / °F		Qty/ Box	Box Dimensions cm/in	Weight kg/lbs
4.5" x 10"	1	FWPS10B01	FWT Polyspun Cartridge, 10" BB, 1 Micron	NSF 42	65°	150°	12	33x28x79 cm 13x11x31 in	5.44 kg 12 lbs
	5	FWPS10B05	FWT Polyspun Cartridge, 10" BB, 5 Micron						
	20	FWPS10B20	FWT Polyspun Cartridge, 10" BB, 20 Micron						
	50	FWPS10B50	FWT Polyspun Cartridge, 10" BB, 50 Micron						
4.5" x 20"	1	FWPS20B01	FWT Polyspun Cartridge, 20" BB, 1 Micron	NSF 42	65°	150°	6	33x28x104 cm 13x11x41 in	5.44 kg 12 lbs
	5	FWPS20B05	FWT Polyspun Cartridge, 20" BB, 5 Micron						
	20	FWPS20B20	FWT Polyspun Cartridge, 20" BB, 20 Micron						
	50	FWPS20B50	FWT Polyspun Cartridge, 20" BB, 50 Micron						

Cartridge Efficiency



Materials of Construction

100% Melt-Blown Micron-Denier PP Fiber

Applications

Potable & Process Water
Water Purification Systems
Pre/Post-Filtration for RO

Food & Beverage
Chemical Processing
Electroplating

Performance

Maximum Operating Temperature	65°C (150°F)
Nominal ΔP for Replacement	1.5 Bar (22 psi)
Maximum Pressure Drop @ 20°C (77°F)	3.2 Bar (46.4 psi)
Maximum Flow (2.5x10")	7-30 Lpm (2-8 gpm) *
Maximum Flow (4.5x10")	22-75 Lpm (6-20 gpm) *
Maximum Flow (4.5x20")	45-75 Lpm (12-20 gpm) *

*Depending on Micron rating and Length

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Franklin Water Treatment recommends that when treating drinking water from a raw water source with unknown microbiological contamination or where pathogens are suspected, that multiple disinfection barriers are employed.



FWSW - String Wound Filter Cartridges

FWSW Series Cartridges are a premium solution for the reduction of sand, silt, rust and scale particles. They are manufactured from 100% Polypropylene cord, which is wound around a Polypropylene core.

FWSW Series string wound cartridges are suitable for a wide range of filtering applications and are manufactured from FDA grade polypropylene. These cartridges are ideal for potable water filtration, removing extremely fine to very coarse sediment.

By varying the wind pattern, cartridges are fabricated to give a pre-determined micron rating.

Features:

- String wound filters reduces a variety of suspended particles
- Low pressure drop
- Available in 4 sizes
- Fits most standard water filter housings
- Available in four micron ratings: 1; 5; 20; 50



String Wound Filter Cartridges

Size	Micron Rating	Item Number	Description	Max Temp °C / °F		Qty/ Box	Box Dimensions cm/in	Weight kg/lbs	Nominal Flow Rate
2.5" x 10"	1	FWSW1001	FWT String Wound Cartridge, 9.88"x2.5", 1 Micron	55°	130°	50	32x32x52.5 12.6x12.6x20.7	8.5 18.7	9.0 lpm/ 2.4 gpm
	5	FWSW1005	FWT String Wound Cartridge, 9.88"x2.5", 5 Micron						18.0 lpm/ 4.7 gpm
	20	FWSW1020	FWT String Wound Cartridge, 9.88"x2.5", 20 Micron						37.0 lpm/ 9.7 gpm
	50	FWSW1050	FWT String Wound Cartridge, 9.88"x2.5", 50 Micron						44.0 lpm/ 11.6 gpm
2.5" x 20"	1	FWSW2001	FWT String Wound Cartridge, 20", 1 Micron	55°	130°	25	32x32x52.5 12.6x12.6x20.7	8.5 18.7	36 lpm/ 10 gpm
	5	FWSW2005	FWT String Wound Cartridge, 20", 5 Micron						74 lpm/ 16 gpm
	20	FWSW2020	FWT String Wound Cartridge, 20", 20 Micron						88 lpm/ 30 gpm
	50	FWSW2050	FWT String Wound Cartridge, 20", 50 Micron						114 lpm/ 30 gpm



FWSW - String Wound Filter Cartridges (cont)

Size	Micron Rating	Item Number	Description	Max Temp °C / °F		Qty/ Box	Box Dimensions cm/in	Weight kg/lbs	Nominal Flow Rate
4.5" x 10"	1	FWSW10B01	FWT String Wound Cartridge, 9.88"x4.5" BB, 1 Micron	55°	130°	12	34/22/54.5 13.4x8.7x21.5	7.5 16.5	38 lpm/ 10 gpm
	5	FWSW10B05	FWT String Wound Cartridge, 9.88"x4.5" BB, 5 Micron						76 lpm/ 20 gpm
	20	FWSW10B20	FWT String Wound Cartridge, 9.88"x4.5" BB, 20 Micron						76 lpm/ 20 gpm
	50	FWSW10B50	FWT String Wound Cartridge, 9.88"x4.5" BB, 50 Micron						76 lpm/ 20 gpm
4.5" x 20"	1	FWSW20B01	FWT String Wound Cartridge, 20" BB, 1 Micron	55°	130°	6	34/22/54.5 13.4x8.7x21.5	8.0 17.6	114 lpm/ 30 gpm
	5	FWSW20B05	FWT String Wound Cartridge, 20" BB, 5 Micron						114 lpm/ 30 gpm
	20	FWSW20B20	FWT String Wound Cartridge, 20" BB, 20 Micron						114 lpm/ 30 gpm
	50	FWSW20B50	FWT String Wound Cartridge, 20" BB, 50 Micron						114 lpm/ 30 gpm

Materials of Construction

Polypropylene Cord/Polypropylene Core

Applications

Potable & Process Water
Process and cooling water

Food & Beverage
Water Purification Systems

Pre/Post-Filtration for RO
Chemical Processing

Performance

Max. Operating Temperature PP/PP 55°C
Nominal ΔP for Replacement 1.0 Bar (15 psi)
Max Pressure Drop @ 20°C (77°F) 1.5 bar (22 psi)

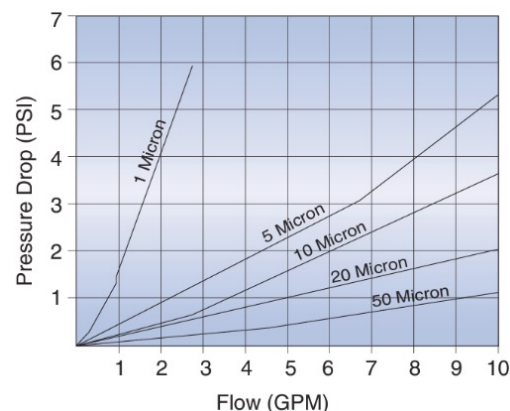
*Depending on Micron rating and Length

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Initial Pressure Drop

In Water Filtration Using 10" Wound Cartridge





FWPL - Pleated Filter Cartridges

FWPL Series Pleated Filter Cartridges are washable, reusable, and durable with high dirt holding capacity. An extended life span makes the cartridge more economical.

Features:

- Pleated design increases surface area and contaminant removal
- Longer filtration life for fewer replacements and less maintenance
- Low pressure drop
- Designed for general water filtration purposes



Polyester Pleated Filter Cartridges

Size	Micron Rating	Item Number	Description	Size	Qty/Box	Box Dimensions cm/in	Weight kg/lbs
10"	1A	FWPL1001A	FWT Pleated Cartridge, 10", 1 Micron Absolute	2.5" x 9.88"	50	37x37x53cm/ 14.5x14.5x21 in	7.3 kg 16 lbs
	5	FWPL1005	FWT Pleated Cartridge, 10", 5 Micron				
	20	FWPL1020	FWT Pleated Cartridge, 10", 20 Micron				
	50	FWPL1050	FWT Pleated Cartridge, 10", 50 Micron				
10" BB	1A	FWPL10B01A	FWT Pleated Cartridge, 10" BB, 1 Micron Absolute	4.5" x 9.88"	18	37x37x53cm / 14.5x14.5x21 in	6.5 kg 14.5 lbs
	5	FWPL10B05	FWT Pleated Cartridge, 10" BB, 5 Micron				
	20	FWPL10B20	FWT Pleated Cartridge, 10" BB, 20 Micron				
	50	FWPL10B50	FWT Pleated Cartridge, 10" BB, 50 Micron				
20" BB	1A	FWPL20B01A	FWT Pleated Cartridge, 20" BB, 1 Micron Absolute	4.5" x 20"	9	37x37x53cm/ 14.5x14.5x21 in	5.6 kg 12.3 lbs
	5	FWPL20B05	FWT Pleated Cartridge, 20" BB, 5 Micron				
	20	FWPL20B20	FWT Pleated Cartridge, 20" BB, 20 Micron				
	50	FWPL20B50	FWT Pleated Cartridge, 20" BB, 50 Micron				



FWPL - Pleated Filter Cartridges (cont)

Materials of Construction

Media	Polyester, Polypropylene
End cap	Polyethylene, Plastisol
Core	Polypropylene

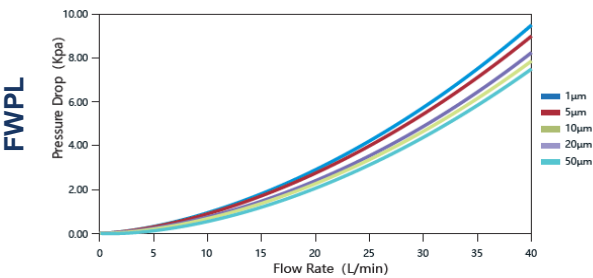
Applications

R.O. Pre-Filtration
Process water, Drinking water, Cooling water,
Waste water, Deionized water, Plating chemicals

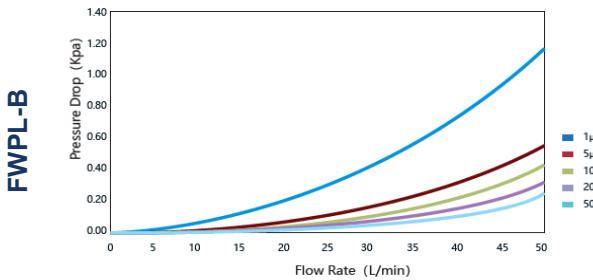
Performance

Max. Operating Temperature	37.8°C (100°F)
Max. Operating DP	4 bar(58psi)
Flow Rate per 10" Cartridge	3~10GPM*
Flow Rate per 10" BB Cartridge	3~15GPM*
Flow Rate per 12" BBCartridge	3~30GPM*

*Dependant on different Micron removal rating



BDLB Filter Pressure Drop vs Flow Rate @20°C



BDLB Filter Pressure Drop vs Flow Rate @20°C

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Franklin Water Treatment recommends that when treating drinking water from a raw water source with unknown microbiological contamination, or where pathogens are suspected, that multiple disinfection barriers are employed.

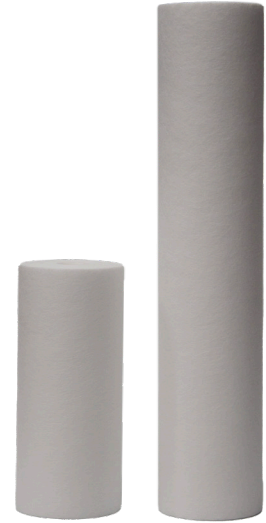


FWPS-DG - Dual Gradient Polyspun Filter Cartridges

FWPS-DG Series-Dual Gradient Spun Polypropylene Cartridges are fused and intertwined with polypropylene resin without any chemical glues. The cartridge is constructed using 2 different layers with the largest fibers on the surface and smaller fibers inside. With the various fiber density, our filters have a high filtration rating, high hold capacity and a low pressure drop. They can effectively remove contaminants, suspended solids, and particulate while providing efficient filtration and long service life.

Features:

- High contaminant loading capacity, long filter service life.
- 100% PP for compatibility with a wide range of process fluids.
- Micro-Denier melt-blown filtration fiber, high removal ratings.
- Formed by thermal bonding without the use of any binders and adhesives.
- The polypropylene material is chemical resistant and not prone to bacterial attack. It will not add any taste, color, or odour to the filter liquid



Certified to NSF42 and FDA CFR Title 21

Dual Gradient Polyspun Filter Cartridges

Size	Micro Rating	Item Number	Description	Cert.	Max Temp °C / °F		Qty/ Box	Box Dimensions cm/in	Weight kg/lbs
4.5" x 10"	25/1	FWPS10B2501	FWT Polyspun Dual Gradient Cartridge, 10" BB, 25/1 Micron	NSF 42	60°	140°	12	24x31x53cm/ 9.4x12.2x20.9in	8.43kg 18.6lbs
	50/5	FWPS10B5005	FWT Polyspun Dual Gradient Cartridge, 10" BB, 50/5 Micron						
	75/25	FWPS10B7525	FWT Polyspun Dual Gradient Cartridge, 10" BB, 75/25 Micron						
4.5" x 20"	25/1	FWPS20B2501	FWT Polyspun Dual Gradient Cartridge, 20" BB, 25/1 Micron				6	26x40x55cm/ 10.2x15x21.7in	8.6Kg 19lbs
	50/5	FWPS20B5005	FWT Polyspun Dual Gradient Cartridge, 20" BB, 50/5 Micron						
	75/25	FWPS20B7525	FWT Polyspun Dual Gradient Cartridge, 20" BB, 75/25 Micron						

Materials of Construction

100% Melt-Blown Micron-Denier PP Fiber

Applications

Potable & Process Water
Pre/Post-Filtration for RO
Chemical Processing

Food & Beverage
Water Purification Systems
Electroplating

Performance

Max. Operating Temperature	60°C (140°F)	Nominal ΔP for Replacement	1.5 Bar (22 psi)
Max Pressure Drop @ 20°C (77°F)	3.2 bar (46.4 psi)	Maximum Flow (4.5x10")	38 Lpm (10 gpm) *
*Depending on Micron rating		Minimum Flow (4.5x20")	75 Lpm (20 gpm) *

Dimensions

Inner Diameter	28 mm (1.1")	
Outer Diameter	112 mm (4.5")	110 mm (4.5")
Length	250 mm (10")	508 mm (20")



Tested and certified by NSF international to NSF/ANSI 42 for material requirement only.

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FWCB - Carbon Block Filter Cartridges

FWCB Series Carbon Block Cartridges are manufactured using high purity coconut shell activated carbon and are available in various lengths, diameters and micron ratings. FWCB Carbon Blocks offer an unequalled cost to performance value, with its high chlorine reduction capability, exceptional sediment holding capacity, and minimal carbon fines, it makes the FWCB the operators choice in Carbon Block Cartridges

Carbon Blocks are perfect for POE/POU and Reverse Osmosis water treatment systems. These cartridges are sized for use in many industries and applications: Residential, Commercial, Industrial food services.

Features:

- Reduces Taste and Odour
- Available in 0.5 and 5-micron filtration ratings
- Excellent Chlorine Removal Capacity



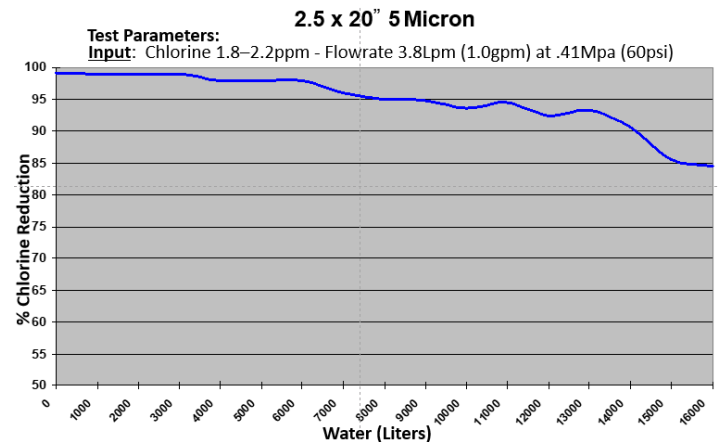
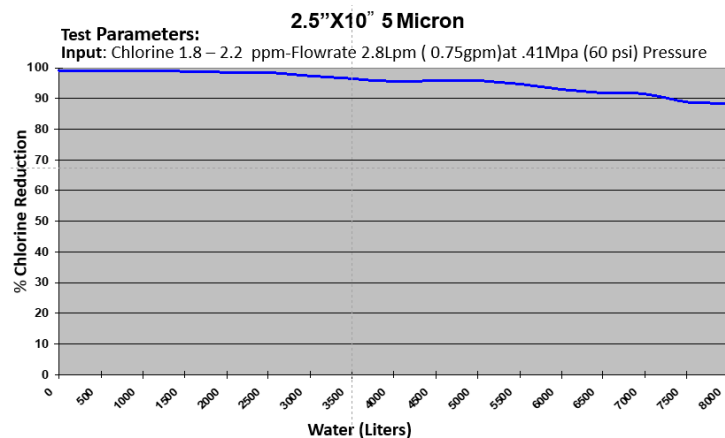
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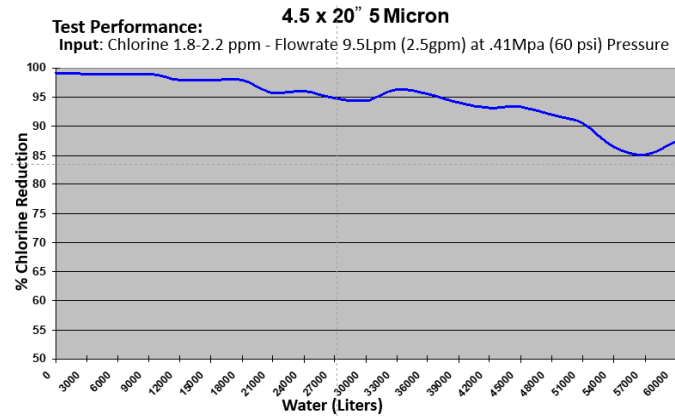
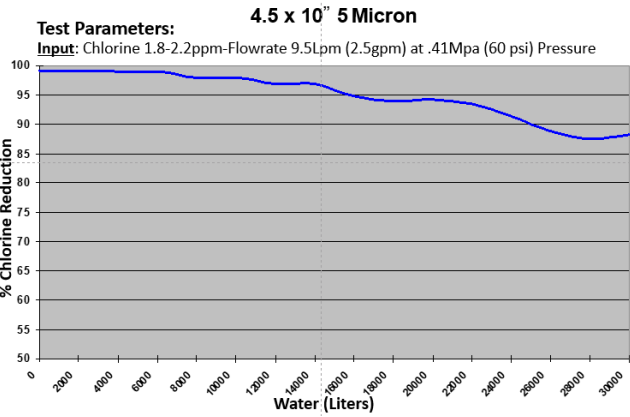
Carbon Block Filter Cartridges

Size	Micron Rating	Item Number	Description	Chlorine, Taste and Odour Reduction Capacity @ Flow*	Initial ΔP @ Flow **	Cert	Max Temp °C / °F	Box Qty	Box Dimensions cm/in	Weight kg/lbs
2.5"x10"	5	FWCB1005	FWT Carbon Block Cartridge, 10", 5 Micron	>17000 gal @ 1 gpm	2 psid @ 1 gpm	NSF 42 NSF 61	50° 120°	20	31x39x29 cm / 12.3x15.3x11.4"	9.0Kg 19.8lbs
2.5"x20"	5	FWCB2005	FWT Carbon Block Cartridge, 20", 5 Micron	>37000 gal @ 2 gpm	2 psid @ 2 gpm			12	24x31x53 cm / 9.4x12.2x20.9"	12kg 26.4lbs
4.5"x10"	5	FWCB10B05	FWT Carbon Block Cartridge, 10" BB, 5 Micron	>60000 gal @ 3 gpm	3 psid @ 3 gpm			12	26x40x55 cm / 10.2x15.8x21.7"	14.0Kg 30.6lbs
4.5"x20"	5	FWCB20B05	FWT Carbon Block Cartridge, 20" BB, 5 Micron	>120000 gal @ 4 gpm	4 psid @ 4 gpm			6	26x40x55 cm / 10.2x15.8x21.7"	14.6Kg 32.2lbs
2.5"x10"	0.5	FWCB10P5	FWT Carbon Block Cartridge, 10", 0.5 Micron	>20000 gal @ 1 gpm	3 psid @ 1 gpm			20	31x39x29 cm / 12.3x15.3x11.4"	9.0Kg 19.8lb
2.5"x20"	0.5	FWCB20P5	FWT Carbon Block Cartridge, 20", 0.5 Micron	>45000 gal @ 2 gpm	3 psid @ 2 gpm			12	24x31x53 cm / 9.4x12.2x20.9"	12kg 26.4lbs
4.5"x10"	0.5	FWCB10BP5	FWT Carbon Block Cartridge, 10" BB, 0.5 Micron	>70000 gal @ 3 gpm	4.5 psid @ 3 gpm			12	26x40x55 cm / 10.2x15.8x21.7"	14.0Kg 30.6lbs
4.5"x20"	0.5	FWCB20BP5	FWT Carbon Block Cartridge, 20" BB, 0.5 Micron	>150000 gal @ 4 gpm	5 psid @ 4 gpm			6	26x40x55 cm / 10.2x15.8x21.7"	14.6Kg 32.2lbs

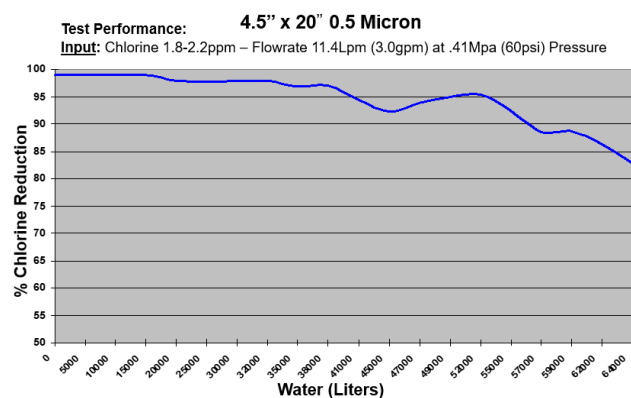
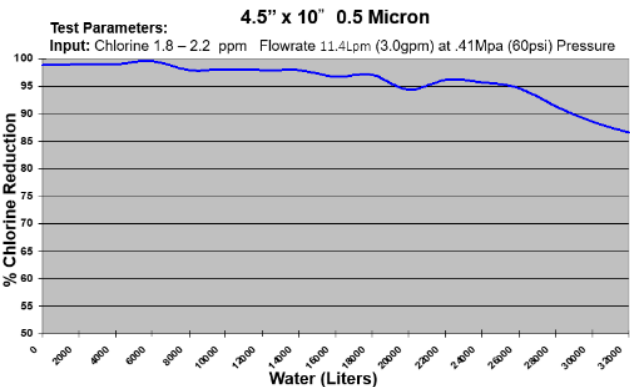
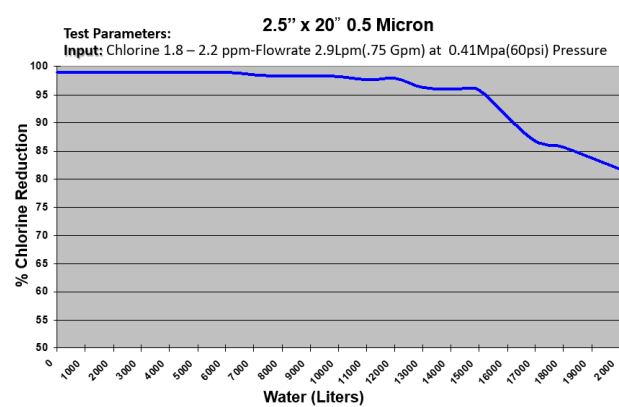
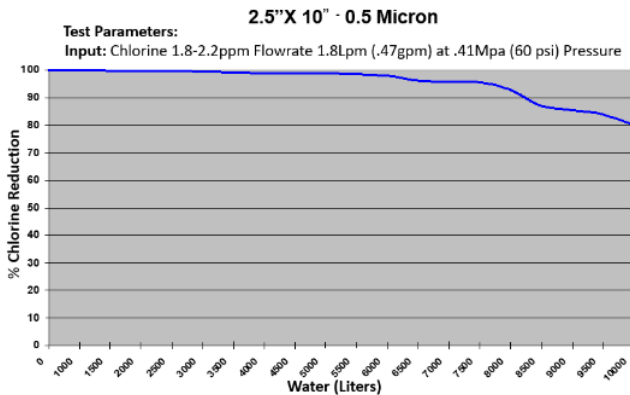
5 Micron Laboratory Test Results for Chlorine Reduction



FWCB - Carbon Block Filter Cartridges (cont)



0.5 Micron Laboratory Test Results for Chlorine Reduction



Materials of Construction

Filter Media: 100% Coconut Shell
Inner/Outer Wrap: Polypropylene

End Caps: Polypropylene
Netting: Polypropylene

Gasket: Natural Rubber

Applications

Potable & Process Water

Food & Beverage

Water Purification Systems

Pre/Post-Filtration for RO

Performance

Operating Temperature 4-50°C (40-120°F)
Nominal ΔP for Replacement 1.5 Bar (22 psi)
Maximum Operating Pressure 10 Bar /150 psi

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FWHF - High Flow Filter Cartridges

HF Series Pleated Filter Cartridges have a big diameter of 197mm (7.75") which increases filtration area. Made of pleated polyester filter media, it provides lower initial pressure drop, higher flow rates, and longer life. The center core, end cap, and filter material are poured as one unit, which enables additional strength and a positive seal. The long service life and high flow rate result in low investment and less labor cost in many applications.

Features

- Available in three sizes for all your high flow requirements: 40, 90 and 170 Series
- Cartridges are washable and reusable
- Pleated design provides large filtration area
- High flow rate, low pressure drop, and long service life



High Flow Rate Polyester Pleated Filter Cartridge

Size	Micron Rating	Item Number	Description	Size	Max Temp °C / °F		Qty/ Box	Box Dimensions cm/in	Weight kg/lbs
10"	1A	FWHF401A	FWT Pleated Cartridge, 10" Jumbo, 1 Micron Absolute	7-3/4" x 9.63"	60°	140°	12	45x69x60cm 18x27x24"	20.5Kg 45 Lbs
	1	FWHF401	FWT Pleated Cartridge, 10" Jumbo, 1 Micron						
	5	FWHF405	FWT Pleated Cartridge, 10" Jumbo, 5 Micron						
	20	FWHF4020	FWT Pleated Cartridge, 10" Jumbo, 20 Micron						
20"	1A	FWHF901A	FWT Pleated Cartridge, 20" Jumbo, 1 Micron Absolute	7-3/4" x 19.5"	60°	140°	6	45x56x64cm 18x21x26"	12.5Kg 27.5 Lbs
	1	FWHF901	FWT Pleated Cartridge, 20" Jumbo, 1 Micron						
	5	FWHF905	FWT Pleated Cartridge, 20" Jumbo, 5 Micron						
	20	FWHF9020	FWT Pleated Cartridge, 20" Jumbo, 20 Micron						
30"	1A	FWHF1701A	FWT Pleated Cartridge, 30" Jumbo, 1 Micron Absolute	7-3/4" x 30.75"	60°	140°	4	45x45x83cm 18x18x33"	15Kg 33Lbs
	1	FWHF1701	FWT Pleated Cartridge, 30" Jumbo, 1 Micron						
	5	FWHF1705	FWT Pleated Cartridge, 30" Jumbo, 5 Micron						
	20	FWHF1720	FWT Pleated Cartridge, 30" Jumbo, 20 Micron						

Materials of Construction

Media Polyester
End cap Polyurethane, Plastisol

Applications

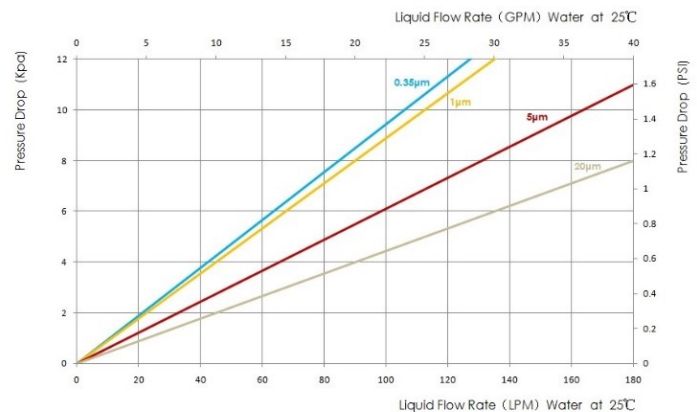
Swimming Pool & Spa
Potable Drinking Water
Cooling Tower Filtration
Desalination Prefiltration
Food & Beverage
Industrial Wastewater Treatment

Oil & Gas
Paints, Inks & Coatings
Paper & Pulp
Process Water
Pre-Filtration for RO

Performance

Max. Operating Temperature 37.8°C (100°F)
Max. Operating DP 4 bar (58psi)
Flow Rate Depends on different Micron/removal rating

HC Flow Rate Per 9-5/8"



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