

Premiere BG-20BIVRC

BG-20BIVRC 0.2 Micron Nanofiber Replacement Cartridge

The Premiere BG-20BIVRC nanofiber replacement cartridge removes contaminants and pathogens as small as 0.2 micron. This replacement water filter cartridge can be used in a broad range of filtration applications including whole house or point-of-use water filtration. It removes viruses, bacteria, cysts, particulates, and other biological hazards. The pleated design of the BG-20BIVRC cartridge creates enormous internal surface area providing high capacity for contaminant removal.

Features

0.2 Micron Filtration

- ✓ Removes submicron pathogens through absolute charged nanofiber technology
- ✓ Removes more than 99.99% of viruses and bacteria, and more than 99.95% of cysts

Nanofiber Technology

- ✓ Fine particle retention and filtration capacity
- ✓ Inhibits the bacteria that causes biofouling in reverse osmosis membranes
- ✓ High Zeta potential for effective removal of ultrafine contaminants

Added Benefits

- ✓ Drop-in replacement cartridge makes for easy installation (no activation required)
- ✓ Operates in wide pH range (4-9pH)
- ✓ Very low pressure drop (approximately 2 psi) means high flow rate



Specifications

Micron Rating	0.2 Micron
Flow rate	20 GPM
Size	4.5" D x 20" L

Contaminant Removal

- ❖ Bacteria
- ❖ Cryptosporidium,
- ❖ Cysts
- ❖ Escherichia coli (E. coli)
- ❖ Giardia
- ❖ Iron
- ❖ Legionella
- ❖ Manganese
- ❖ Norovirus
- ❖ Polio
- ❖ Pseudomonas
- ❖ Rotavirus
- ❖ Sediment
- ❖ Viruses
- ❖ And other biological hazards



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Biological Filtration Efficacy Rates

Challenge Species	Filter influent average concentration	Average concentration of the challenge species* in the filter's effluent	
		Filter B	Filter C
Bacteria: <i>Raoultella terrigena</i> cfu/ml ¹	270,000	2.3	.45
Virus: MS-2 Bacteriophage pfu/ml ²	300,000	< .45**	7.7
3.0 µM Fluorescent microspheres/ml ³	25,000	2	4

Challenge Species	Filter influent average concentration	Average percent removal*** of the challenge species by:	
		Filter B	Filter C
Bacteria: <i>Raoultella terrigena</i>	2.7 x 10 ⁵ cfu /ml	99.9996%	99.9998%
Virus: MS-2 Bacteriophage	3.0 x 10 ⁵ pfu /ml	> 99.9999%**	99.997%
3.0 µM Fluorescent microspheres	2.5 x 10 ⁴ / ml	99.992%	99.98%

Challenge Species	Filter influent average concentration	Log ₁₀ Reduction*** of the challenge species by:	
		Filter B	Filter C
Bacteria: <i>Raoultella terrigena</i> ¹	2.7 x 10 ⁵ cfu /1 ml (5.43 Log ₁₀)	5.07	5.78
Virus: MS-2 Bacteriophage ²	3.0 x 10 ⁵ pfu /ml (5.48 Log ₁₀)	> 5.83**	4.59
3.0 µM Fluorescent microspheres ³	2.5 x 10 ⁴ /ml (4.40 Log ₁₀)	4.10	3.80

Challenge Species	Filter influent average concentration	Average concentration of the challenge species* in the filter's effluent	
		Filter B	Filter C
Bacteria: <i>Raoultella terrigena</i> cfu/ml ¹	220,000	26	72
3.0 µM Fluorescent microspheres/ml ²	26,000	4	18

Challenge Species	Filter influent average concentration	Average percent removal*** of the challenge species by:	
		Filter B	Filter C
Bacteria: <i>Raoultella terrigena</i>	2.2 x 10 ⁵ cfu /ml	99.99%	99.97%
3.0 µM Fluorescent microspheres	2.6 x 10 ⁴ / ml	99.98%	99.93%

Challenge Species	Filter influent average concentration	Log ₁₀ Reduction*** of the challenge species by:	
		Filter B	Filter C
Bacteria: <i>Raoultella terrigena</i> ¹	2.2 x 10 ⁵ cfu /1 ml (5.34 Log ₁₀)	3.93	3.48
3.0 µM Fluorescent microspheres ³	2.6 x 10 ⁴ /ml (4.41 Log ₁₀)	3.81	3.15

Tested by BSC Laboratories Inc., Gainesville, Florida, USA



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