

MinyPure®-NZ Charged Nylon 66 Pleated Cartridge Filter

»»» A Positively-charged Cartridge Filters for Fine Particles and Endotoxins Removal, Sterile Filtration with Excellent Long Service Time.



Specifications

» Materials of Construction

Filter membrane	Modified Nylon 66 membrane with positive charge
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene/SS 316L
Adaptor	Polypropylene
O-rings	Please refer to the ordering info.

» Operating Parameters

Maximum Operating Temperature	1.9bar@82 C
Maximum Differential Pressure (forward)	5.2bar@25 C
Maximum Differential Pressure (reverse)	2.1bar@25 C
Recommended Replacement Pressure	2.4bar

» Filter Dimensions

Outer Diameter	69mm
Inner Diameter	33.0mm
Filtration Area	≥0.65m ² /10inch

» Safety

Bacterial Endotoxin	≤0.25EU/mL
Extractable	≤25mg/10inch

» Sterilizable

Autoclave	124 C,30min, 150cycles
	134 C,30min, 100cycles
Steam In-Place	124 C,30min, 150cycles pressure drop ≤0.5bar
	134 C,30min, 100cycles pressure drop ≤0.5bar

Description

MinyPure-NZ filters use a patented modified Nylon 66 membrane with positive charge which can provide enhanced retention of fine particles smaller than the membrane's rating, such as endotoxins in water. Due to reasonable structure, MinyPure-NZ offers high flow rate, high throughput and low extractables, available in particulate and bio-reduction grades and in sterilizing-grades with low cost.

» Reliability

From raw materials purchase, transport to production and storage, all operations follow ISO 9001 quality management system. MinyPure-NZ manufactured, tested and packaged in a cleanroom to ensure product cleanliness. MinyPure-NZ cartridge filters are 100% integrity tested after manufacture, and validation guide is available for compliance with regulatory requirements.

» Compatibility

MinyPure-NZ cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant. The components of MinyPure-NZ, include of Charged Nylon 66, Polypropylene and Silicone/EPDM, provide broad chemical compatibility from pH 3 to pH 10 and low extractable levels at high temperature.

» Fine Particles and Endotoxin Removal

The Optimized structure of cartridge filters can take full advantage of the excellent performance of asymmetric PES membrane. These features ensure the highest process efficiency and minimize filtration costs.

» Economy

The Optimized structure of cartridge filters can take full advantage of the excellent performance of membrane. These features ensure the highest process efficiency and minimized filtration costs.

» Regulatory Compliance

ASTM D6394 SP0112
FDA 21 CFR 177.1655
ISO 10993-Part 1, 5
EN 285:2006+A2:2009.
Regulation (EC) No 1935/2004

» Integrity Test Data*

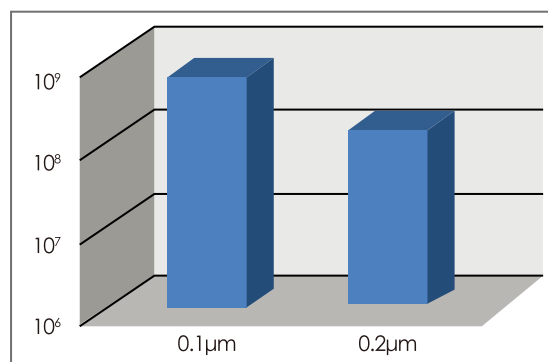
Pore Size	Min. Bubble Point, 25 C	Max. Diffusion, 25 C
0.1µm	≥3.8bar	≤29ml/min@3.0bar
0.2µm	≥2.7bar	≤20ml/min@2.1bar
0.45µm	≥1.8bar	≤18ml/min@1.0bar
1.0µm	≥0.7bar	≤32ml/min@0.6bar

The figure below shows the Min. Bubble Point and Max. Diffusion data around steam-in-place, tested by DI water.

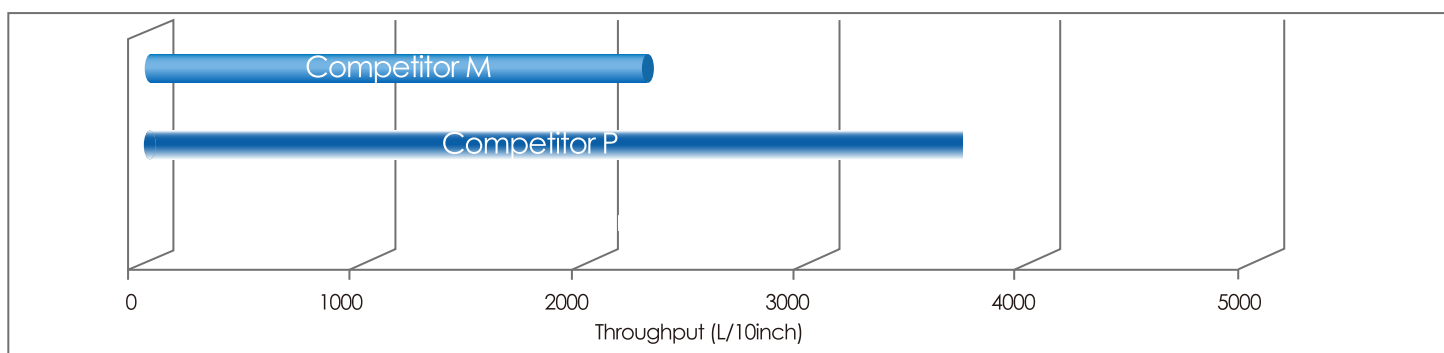
Performance: Excellent Long Service Life

Test System	WFI System
Recycle Condition	8H/Day
Total Time	6 months (25 weeks)
Concentration of Bacterial Challenge	9x10 ⁹ CFU/10inch Filters
Concentration of Endotoxins	10 ⁸ EU/10inch Filters
Test Result	≤0.25EU/mL

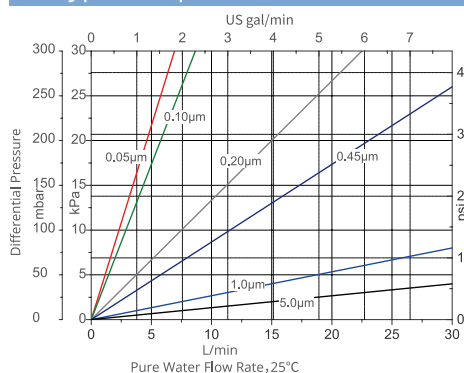
Log Endotoxin Retention Capacity (EU) for MinyPure-NZ



» Contrast Figure of Service Life of Different Brand



» Typical Liquid Flow Rates



Application

- High Purity Chemicals
- Large Volume Parenteral
- Ultrapure Water for Injection
- Active Pharmaceutical Ingredient
- Pharmaceutical-grade Water

Order Information*

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRNYZ: Charged Nylon 66 membrane	005 = 5 inch 010 = 10 inch 020 = 20 inch 030 = 30 inch 040 = 40 inch	005=0.05μm 010=0.1μm 020=0.2μm 045=0.45μm 100=1.0μm	0=DOE 1=222/Flat with 316L SS insert 2=222/Flat 3=222/Fin 4=222/Fin with 316L SS insert 5=226/Fin with 316L SS insert 6=226/Fin 7=226/Flat 8=226/Flat with 316L SS insert	S = Silicone E = EPDM F = FPM/FKM N = NBR P = PTFE PV= FEP Encapsulated FPM/FKM PS= FEP Encapsulated Silicone	Blank=PP R=Reinforced PP S=316L Stainless Steel



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