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LifeASSURE 020SA Series

Nylon 6,6 Log Reduction Grade Cartridge

LifeASSURE 020SA log reduction grade cartridges - formerly known as Zetapor SA 020 - provide safer, more reliable, and efficient prefilter operation. The function of the LifeASSURE 020SA cartridge is to increase the effective service life of downstream final filters. The LifeASSURE 020SA cartridge accomplishes this objective by providing a large and highly effective surface area (0.83 m²). The electropositive charge of the LifeASSURE 020SA membrane combined with the rated pore size offers highly efficient filtration for bacteria retention and pyrogen reduction.

The charge-modified, double-layer composite Nylon 6,6 membrane provides enhanced particle retention and endotoxin reduction. With a log reduction value of 6, the cartridge can reduce bioburden to the final sterilising grade filter.

Performance

The LifeASSURE 020SA cartridge typically shows log reduction values of 6 per 10" element for all cartridges tested using *Pseudomonas diminuta* and ASTM/HIMA procedures.

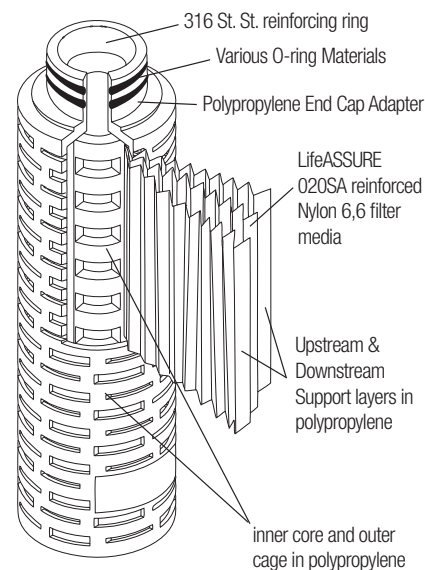
Construction

LifeASSURE 020SA log reduction cartridges are produced from a reinforced pleated membrane. The composite membrane is composed of two layers of charge-modified Nylon 6,6, with upstream and downstream polyester supports. Multiple lengths of various end cap styles are produced by thermoplastic welding to eliminate the need for adapters. No adhesives or surfactants are used in the cartridge assembly.

While the LifeASSURE 020SA cartridge is not integrity tested before shipment, it is biologically safe in accordance with USP testing, providing a cost of reduction for non-sterile applications. Do not use the LifeASSURE 020SA cartridge in applications requiring integrity testing.



Standard Cartridge Construction



Features and Benefits

Proprietary charge-modified Nylon 6,6 filter medium

- Retention of negatively-charged biological and particulate contaminants including endotoxins
- Inherently hydrophilic membrane for easy wet-out

Large Surface Area

- High flow rates and longer cartridge life

Robust cartridge construction

- Cartridges withstand mechanical and thermal stress including SIP operations

ISO 9001:2000 - Registered Quality System

- Quality Management System approved by an accrediting body to an ISO 9001 Quality System Standard

Applications

Prefilter to final membrane

Final filter for diagnostics and reagents

3M

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Cartridge Specifications	
Dimensions, Nominal	Outside Diameter: 7.11 cm / 2.8" Length: 10", 20" 30" and 40" (See ordering guide for more info)
Surface Area	0.83 m ² per 10" element
Bacteria Removal Rating (nominal)	0.20 µm
Log Reduction Value (LRV)	> 6
Extractables in Water	< 30 mg at 20 °C

Operating Conditions	
Maximum Operating Temperature	80 °C
Max. Forward Differential Pressure	4.49 bar at 25 °C
Max. Reverse Differential Pressure	4.49 bar at 25 °C
Typical Water Flow Rate	31 l/min per 300 mbar at 25 °C
Sterilisation Procedure	<i>In-situ</i> steam or autoclave up to 145 °C
Rinse Volume	1000 ml minimum per 10" element

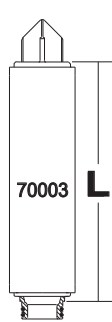
LifeASSURE 020SA Filter Cartridge Ordering Guide

Basic Cartridge Design	Nominal Cartridge Length	Gasket or O-ring Material	Micron Rating	Formulation	Control Grade
70002 70003 70025	01 – 10" 02 – 20" 03 – 30" 04 – 40"	A – 60D (Classical) Silicone (MVQ)* B – Fluorocarbon (FPM)* C – Ethylene Propylene (EPDM)* D – Nitrile (NBR)*	020 – 0.20 µm	S	A – General Purpose

* ISO Designation

Note: LifeASSURE 020SA is new name for Zetapor SA 020.

	Single open end Code 7 (226) O-ring Bayonet Lock	
	Nominal Cartridge Length	70002 L (mm)
	01	259
	02	506
	03	754
	04	1002

	Single open end Code 8 (222) O-ring	
	Nominal Cartridge Length	70003 L (mm)
	01	260
	02	507
	03	755
	04	1003

	Single open end Code 3 (222) O-ring	
	Nominal Cartridge Length	70025 L (mm)
	01	260
	02	507
	03	755
	04	1003

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