

LENNTECH

info@lennotech.com Tel. +31-152-610-900
www.lennotech.com Fax. +31-152-616-289

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 10⁷ 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.

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

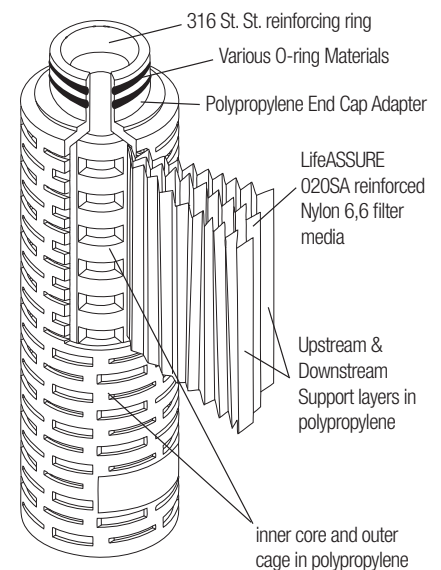
- Cartridges withstand mechanical and thermal stress including SIP operations

ISO 9001:2000 - Registered Quality System

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



Standard Cartridge Construction



Applications

Prefilter to final membrane

Final filter for diagnostics and reagents



LifeASSURE 020SA Series

Nylon 6,6 Log Reduction Grade Cartridge

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.

70002	Single open end Code 7 (226) O-ring Bayonet Lock		70003	Single open end Code 8 (222) O-ring		70025	Single open end Code 3 (222) O-ring	
	Nominal Cartridge Length	70002 L (mm)		Nominal Cartridge Length	70003 L (mm)		Nominal Cartridge Length	70025 L (mm)
	01	259		01	260		01	260
	02	506		02	507		02	507
	03	754		03	755		03	755
	04	1002		04	1003		04	1003

Important Notice

3M Purification MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Since a variety of factors can affect the use and performance of a 3M Purification product in a particular application, some of which are uniquely within the user's knowledge and control, user is responsible for determining whether or not the 3M Purification product is fit for a particular purpose and suitable for user's method of application.

Limited Warranty

3M Purification warrants it this product to be free from defects in material and workmanship during normal use for a period of one (1) year from the date of shipment from the factory. If the Product(s) is (are) defective within this warranty period, your exclusive remedy and 3M Purification's sold obligations shall be, at 3M Purification's option, to replace or repair the Product(s) or refund the original purchase price of the Product(s). This warranty does not apply to failures that result from abuse, misuse, alteration or damage not caused by 3M Purification or failure to properly follow installation and use instructions.

Limitation of Liability: 3M Purification will not be liable for any loss or damage arising from the use of the Product(s), whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This warranty gives you specific legal rights and you may have other rights which vary from state to state, or country to country.

3M and LifeASSURE are trademarks of 3M used under licence.

LENNTECH

info@lennotech.com Tel. +31-152-610-900

www.lennotech.com Fax. +31-152-616-289



Data may be subject to change without further notice.

© 3M 2010. All rights reserved.

DOC10086
LITCTLA020SA1.EU - 0810

70002 01 A 020
70002 01 B 020
70002 01 C 020
70002 01 D 020
70002 02 A 020
70002 02 B 020
70002 02 C 020
70002 02 D 020
70002 03 A 020
70002 03 B 020
70002 03 C 020
70002 03 D 020
70002 04 A 020
70002 04 B 020
70002 04 C 020
70002 04 D 020
70003 01 A 020
70003 01 B 020
70003 01 C 020
70003 01 D 020
70003 02 A 020
70003 02 B 020
70003 02 C 020
70003 02 D 020
70003 03 A 020
70003 03 B 020
70003 03 C 020
70003 03 D 020
70003 04 A 020
70003 04 B 020
70003 04 C 020
70003 04 D 020
70025 01 A 020
70025 01 B 020
70025 01 C 020
70025 01 D 020
70025 02 A 020
70025 02 B 020
70025 02 C 020
70025 02 D 020
70025 03 A 020
70025 03 B 020
70025 03 C 020
70025 03 D 020
70025 04 A 020
70025 04 B 020
70025 04 C 020
70025 04 D 020