

BIO-X II RETROFITS

Air/Gas Filters

Robust stainless steel construction

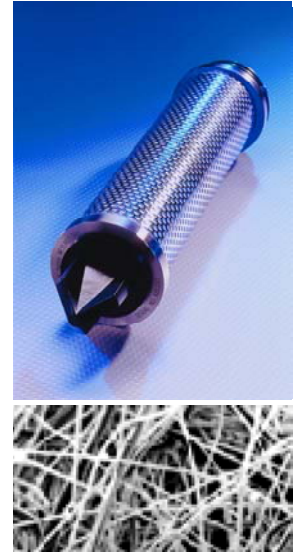
High voids volume filtration media

High dirt holding capacity

Repeatedly steam sterilisable

Fully validated to aerosol bacterial challenge

Integrity testable by aerosol challenge method

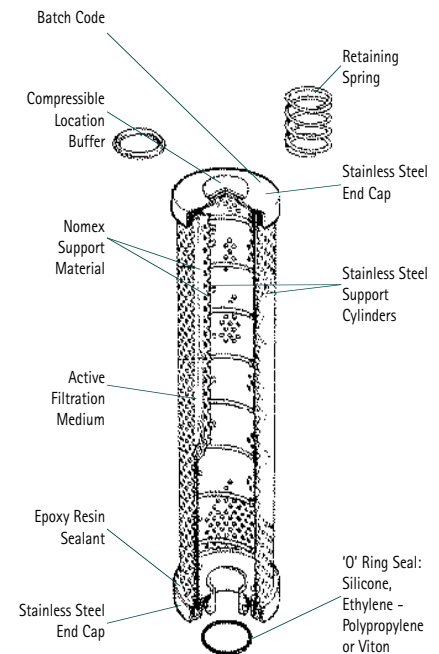


Product Information

BIO-X air sterilisation filter cartridges utilise a borosilicate glass microfibre media. This media has proven to be particularly effective in the removal of sub-micron particles as small as 0.01 micron, therefore ensuring the removal of all micro-organisms including bacteria and viruses.

The media is sandwiched between Nomex® support materials to provide additional strength and prevent media migration. This is rigidly held between stainless steel support cylinders and finally encapsulated into stainless steel end caps. The result is BIO-X filter cartridges with the exceptional strength and efficiency necessary for absolute security in the most testing of applications.

BIO-X filter cartridges are particularly suitable for the increasing number of high temperature applications. They also fulfil the sterile compressed air and gas requirements of the dairy, brewery and food processing industries.



Materials of Construction

| | | |
|-----------------------|---|-------------------------------|
| Filtration Media | : | Borosilicate Glass Microfibre |
| Upstream Support | : | Nomex* |
| Downstream Support | : | Nomex* |
| Inner Support Core | : | Stainless Steel |
| Outer Protection Cage | : | Stainless Steel |
| End Caps | : | Stainless Steel |
| Encapsulant | : | Epoxy Resin |

*Nomex is a registered trademark of E.I. du Pont de Nemours and Co Inc.

Recommended Operating Conditions

The maximum differential pressure is 700 mbar for economical element change.

Maximum continuous inlet air temperature

200°C (392°F) Intermittent

170°C (338°F) Continuous

Sterilisation and Steam Life

BIO-X filter elements can withstand a minimum of 100 in-line sterilisation cycles with purified saturated steam: In-line sterilisation 142°C (288°F), 3 barg for 30 minutes.

Integrity Test Data

All cartridges are integrity tested prior to despatch by the aerosol challenge test method using the domnick hunter VALA/RDATA II.

Validation

The BIO-X range of cartridges has been fully validated by bacterial challenge of aerosolised *Brevundimonas diminuta*.

| Ultrafilter Ltd Cartridge Code | domnick hunter Cartridge Code |
|-----------------------------------|----------------------------------|
| SRF3/1 | ME3/1 |
| SRF3/1.5 | ME3/1.5 |
| SRF4/1.5 | ME4/1.5 |
| SRF4/2.5 | ME4/2.5 |
| SRF5/2.5 | ME5/2.5 |
| SRF5/3 | ME5/3 |
| SRF10/3 | ME10/3 |
| SRF15/3 | ME15/3 |
| SRF20/3 | ME20/3 |
| SRF30/3 | ME30/3 |
| SRF30/5 | ME30/5 |
| SRF02/10 | MER2/10 |
| SRF03/10 | MER3/10 |
| SRF04/20 | MER4/20 |
| SRF05/20 | MER5/20 |
| SRF05/25 | MER5/25 |
| SRF07/25 | MER7/25 |
| SRF07/30 | MER7/30 |
| SRF10/30 | MER10/30 |
| SRF15/30 | MER15/30 |
| SRF20/30 | MER20/30 |
| SRF30/30 | MER30/30 |
| SRF30/50 | MER30/50 |
| P-SRF02/10 | ME2/10 |
| P-SRF03/10 | ME3/10 |
| P-SRF04/20 | ME4/20 |
| P-SRF05/20 | ME5/20 |
| P-SRF05/25 | ME5/25 |
| P-SRF07/25 | ME7/25 |
| P-SRF07/30 | ME7/30 |
| P-SRF10/30 | ME10/30 |
| P-SRF15/30 | ME15/30 |
| P-SRF20/30 | ME20/30 |
| P-SRF30/30 | ME30/30 |
| P-SRF30/50 | ME30/50 |



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