

## BIO-X II Filter Cartridges

- air / gas filters
- borosilicate glass microfibre

BIO-X II 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 a filter cartridge with the exceptional strength and efficiency necessary for absolute security in the most testing of applications.

BIO-X II 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.

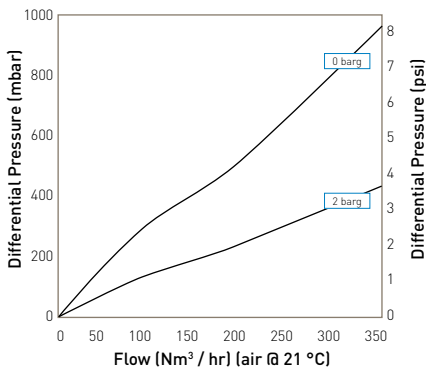
### Features and Benefits

- Nomex support materials for high temperature operation
- Robust stainless steel construction
- High temperature operation 200 °C (392 °F)
- 100% integrity tested prior to despatch
- Unique serial number for full traceability
- Fully validated by aerosol bacterial challenge



Note: BIO-X is a registered trademark of Parker domnick hunter

### Performance Characteristics



ME10AB7SRH Cartridge

Specifications

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 (388 °F) Continuous

Sterilisation

BIO-X II filter elements can withstand a maximum of 100 in-line sterilisation cycles with purified saturated steam. In-line sterilisation 142 °C (287.6 °F), 2.8 barg (40.7 psig) for 30 minutes.

Integrity Test Data

All cartridges are integrity tested prior to despatch by the aerosol challenge test method using the Parker domnick hunter VALAIRDATA II.

Validation

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

Ordering Information

Cartridges

Element Code	Cartridge Length	Endcap Location
MER-BZ	2.5" (65 mm)	Demi A & B Std (Z)
MER-AZ	5" (125 mm)	Demi A & B Std (Z)
ME10AB7SRH	10" (250 mm)	BS226 (C)
ME20AB7SRH	20" (500 mm)	BS226 (C)
ME30AB7SRH	30" (750 mm)	BS226 (C)

BIO-X II Retrofit Cartridge Part Numbers

Parker domnick hunter Cartridge	ME3/1	ME3/1.5	ME4/1.5	ME4/2.5	ME5/2.5	ME5/3	ME10/3	ME15/3	ME20/3	ME30/3	ME30/5
Retrofit Cartridge	SRF3/1	SRF3/1.5	SRF4/1.5	SRF4/2.5	SRF5/2.5	SRF5/3	SRF10/3	SRF15/3	SRF20/3	SRF30/3	SRF30/5

Parker domnick hunter Cartridge	MER2/10	MER3/10	MER4/20	MER5/20	MER5/25	MER7/25	MER7/30	MER10/30	MER15/30	MER20/30	MER30/30	MER30/50
Retrofit Cartridge	SRF02/10	SRF03/10	SRF04/20	SR05/20	SRF05/25	SRF07/25	SRF07/30	SRF10/30	SRF15/30	SRF20/30	SRF30/30	SRF30/50

Parker domnick hunter Cartridge	ME2/10	ME3/10	ME4/20	ME5/20	ME5/25	ME7/25	ME7/30	ME10/30	ME15/30	ME20/30	ME30/30	ME30/50
Retrofit Cartridge	P-SRF02/10	P-SRF03/10	P-SRF04/20	P-SRF05/20	P-SRF05/25	P-SRF07/25	P-SRF07/30	P-SRF10/30	P-SRF15/30	P-SRF20/30	P-SRF30/30	P-SRF30/50