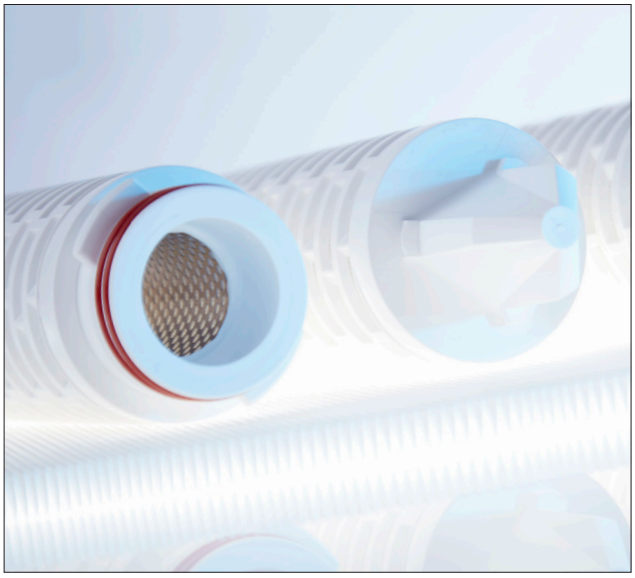
ASEPT-X Air & Gas

Filter Cartridges



The ASEPT-X range of sterilising grade gas filters provides increased microbial security and reduced costs for the aseptic processing of sensitive food and beverage products.

ASEPT-X sterilising grade gas filters have been validated to withstand reverse steam sterilisation processes without the need for condensate management. This unique feature allows a reduction in hardware and automation capability and reduced engineering costs per filter application. Maintaining filter integrity under these harsh conditions also safeguards the sterile gas process, reduces the risk of contamination and improves filter lifetime significantly over alternatives.

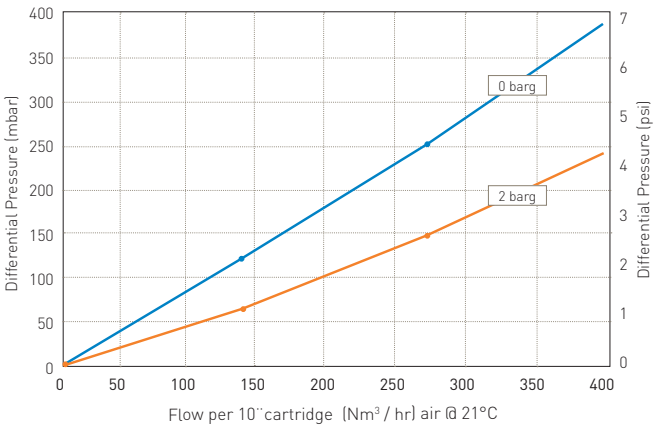
Features

- Fully validated bacterial, spore and bacteriophage retention
- Resistant to >1bar dP in reverse direction at max SIP temperature
- Ability to withstand liquid condensate

Benefits

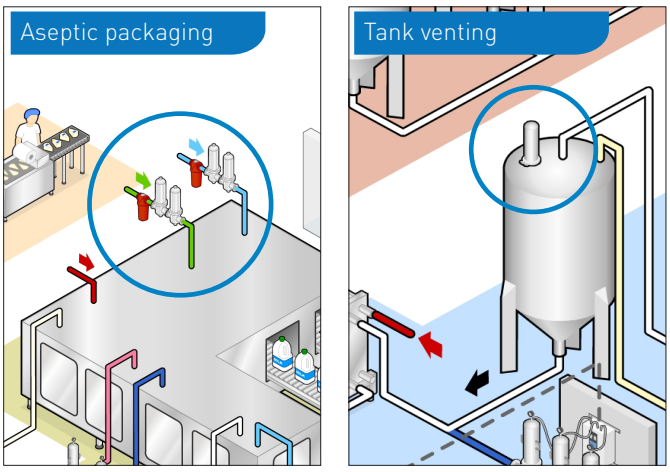
- Complete assurance of process sterility
- Increased element lifetime and microbial security
- Reduced hardware and automation costs for SIP processes

Performance Characteristics



For A size filter, multiply dP by factor of 3 at same flow

Filtration Stage



Specifications

Materials of Construction

Filtration Media:	Expanded PTFE
Upstream Support:	Polypropylene
Downstream Support:	Polypropylene
Inner Support Core:	316L Stainless Steel
Outer Protection Cage:	Polypropylene
End Caps:	Polypropylene
End Cap Insert:	Polysulphone
Standard O-rings:	Silicone

Food Contact Compliance

Parker domnick hunter's range of ASEPT-X filters are intended for indirect food contact and as such are manufactured from materials suitable for the sterilisation of compressed gasses within food and beverage applications.

Recommended Operating Conditions

Maximum operating temperature:
70°C

Maximum SIP temperature:
145°C

System sizing and gas velocity:
For optimum and efficient system sizing, please contact your local Parker representative.

Steam Sterilisation (SIP)

ASEPT-X filters have been validated to withstand 100 x SIP cycles in the forward and reverse direction without the requirement to drain bulk condensate.

ASEPT-X filters are capable of withstanding aggressive differential pressures at steam temperatures in the forward and reverse direction – up to 1.5barg at 140°C.

Integrity Test Data

ASEPT-X filters can be routinely integrity tested during use by the aerosol challenge method to comply with the requirements of HACCP, demonstrating filter integrity and ensuring process security.

Retention Characteristics

The retention characteristics of ASEPT-X filters have been validated using live bacterial challenge methods with a range of organisms presented in liquid and aerosols.

Challenge Methodology	Test organism	Total challenge level	Challenge level per cm^2	Log reduction value (LRV)
Aerosol bacterial challenge	*Bacillus atrophaeus*	2.38 x 10^{10} cfu	3.78 x 10^{6} cfu	11.8
	MS-2 Bacteriophage	2.06 x 10^{11} pfu	4.13 x 10^{8} pfu	11.3
Liquid bacterial challenge	*Brevundimonas diminuta*	1.66 x 10^{11} cfu	2.65 x 10^{7} cfu	10.6

Product Release

All ASEPT-X filter cartridges undergo final product quality control prior to shipment. This includes: an aerosol challenge integrity test to ensure product integrity prior to dispatch, final inspection and packaging sealed in a protective polyethylene bag within a controlled manufacturing environment.

Ordering information

CARTRIDGES

ZCAX – [ ] [ ] – [ ]

Code	Length (Nominal)
B*	2.5" (65mm)
A*	5" (125mm)
K	5" (125mm)
1	10" (250mm)
2	20" (500mm)
3	30" (750mm)
4	40" (1000mm)

* *Demi cartridges supplied in packs of 3*

Code	Endcap 10"
C	P-7
P	Bio-X Retrofit
H	UF Retrofit

Code	Endcap Demi
H	UF Retrofit
T	TRUESEAL
Y	Demi MCY
Z	Demi A & B Std

Code	O-rings
E	EPDM
S	Silicone

HBA, HPG & HSV
HOUSING RANGE AVAILABLE

Parker domnick hunter has a continuous policy of product development and although the Company reserves the right to change specifications, it attempts to keep customers informed of any alterations. This publication is for general information only and customers are requested to contact our Process Filtration Sales Department for detailed information and advice on a products suitability for specific applications. All products are sold subject to the company's standard conditions of sale.

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