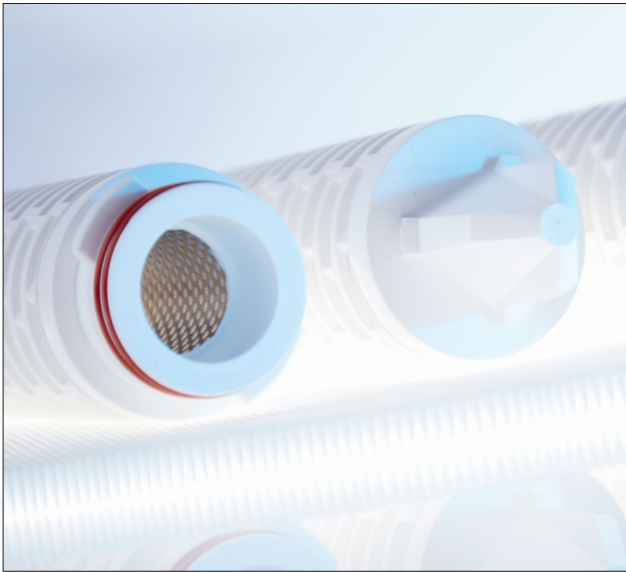


ASEPT-X Air & Gas

Filter Cartridges



ASEPT-X sterilising grade gas filters have been validated to withstand over 100 reverse steam sterilisation cycles without the need for condensation management. Customer trials have confirmed the ASEPT-X has significantly extended lifetime when compared to the next best alternative, enabling dairy producers to reduce their annual filtration spend by over 50%. Maintaining filter integrity under harsh conditions such as repeated reverse steam sterilisation also safeguards the sterile process, reducing the risk of contamination, protecting your product and increasing shelf-life.

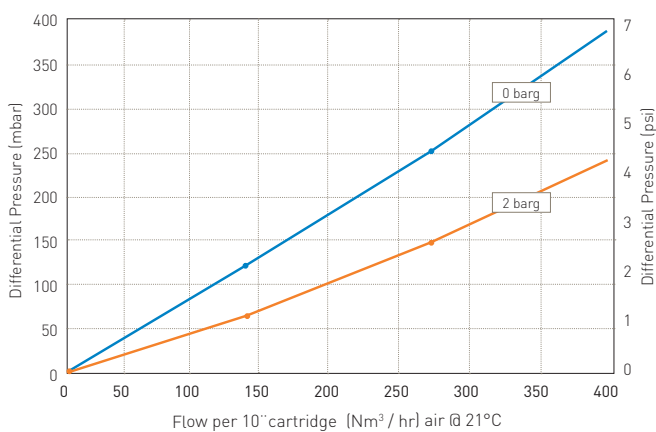
Features

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

Benefits

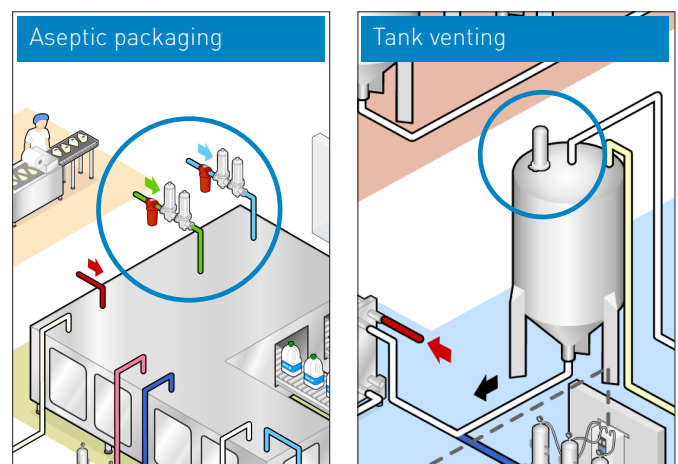
- Significantly increased filter lifetime
- Reduces annual consumable spend
- Increases microbial security

Performance Characteristics



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

Filtration Stage



ASEPT-X Air & Gas

Filter Cartridges

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	<i>Bacillus atrophaeus</i>	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	<i>Brevundimonas diminuta</i>	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

ZCAX	—	□	—	□	—	□
Code	Length (Nominal)	Code	Endcap 10"	Code	O-rings	
B*	2.5" (65mm)	C	P-7	E	EPDM	
A*	5" (125mm)	P	Bio-X Retrofit	S	Silicone	
K	5" (125mm)	H	UF Retrofit			
1	10" (250mm)	Code	Endcap Demi			
2	20" (500mm)	H	UF Retrofit			
3	30" (750mm)	T	TRUESEAL			
4	40" (1000mm)	Y	Demi MCY			
* Demi cartridges supplied in packs of 3		Z	Demi A & B Std			