



# STERILE AIR FILTER ELEMENTS

RETROFIT FOR JUNIOR STYLE HOUSINGS

Process Filtration

Donaldson Sterile Air Filter element is a sterile grade, pleated, hydrophobic ePTFE membrane filter for use with processed foods and beverages. These elements are designed for gas filtration and venting applications utilizing existing junior-style housings and feature exceptionally high gas flow rates at low pressure differentials.

- Wide range of chemical compatibility with high thermal stability
- Suitable for steam and hot water sanitization in processed food and beverage applications
- Compliant with regulatory and legislative requirements of EU No. 10/2011 and or the US FDA Federal Regulations Title 21, part 177, specifically CFR 177.1520, CFR 177.1550, and CFR 177.2600.
- Compliance with USP Class VI plastics biological reactivity tests



STERILE AIR FILTER ELEMENTS

## STERILE AIR PART DIMENSIONS AND DESCRIPTIONS

PART NUMBER	PRODUCT DESCRIPTION	EFA (per 5" Element)	DIAMETER	LENGTH
1C220140-82	Element, PF-PT T, 5/3, Code 2, 0.2 MIC, Silicone	0.37m <sup>2</sup> (3.9ft <sup>2</sup> )	2.8" (70mm)	5.35" (136mm)
1C220602-82	Element, PF-PT T Junior, 5/1.5, Push-in Connection with Inner O-Ring, 0.2 MIC, Silicone, MCY4463	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )	2.2" (56mm)	5.35" (136mm)
1C220603-82	Element, PF-PT T Junior, 2.5/1.5, Push-in Connection with Inner O-Ring, 0.2 MIC, Silicone, MCY2230	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )	2.2" (56mm)	3.07" (78mm)
1C220609-82	Element, PF-PT T, 2.5/1.5, Moulded Flange Seal, 0.2 MIC, SLK7001	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )	2.2" (56mm)	3.05" (77.5mm)
1C220612-82	Element, PF-PT T, 5/1.5, Moulded Flange Seal, 0.2 MIC, SLK7002	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )	2.2" (56mm)	5.34" (135.5mm)
1C220615-82	Element, PF-PT T Junior, 5/1.5, Plug Connection with 4 Locking Tabs, 0.2 MIC, Silicone, MCY4440	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )	2.2" (56mm)	5.63" (143mm)
1C220617-82	Element, PF-PT T, 3/2, Plug Connection with 4 Locking Tabs, 0.2 MIC, Silicone, MCY3330	0.19m <sup>2</sup> (2.05ft <sup>2</sup> )	2.2" (56mm)	3.35" (85mm)

### INTEGRITY TESTING

Bubble-Point-Test*			Diffusions test / Forward Flow Test*		Water Intrusion Test	
Filter Grade	Minimum Bubble Point		Filter Grade	Maximum Diffusion Value	Filter Grade	Maximum Flow Rate
0.2µm	1.0 bar	14 psi	0.2µm	10 ml/min @ 0.8 bar (12 psi)	0.2µm	3700 µL/min per 10 min measurement @ 2.5 bar (36 psi)

\*The values are based on a mixture of 60% IPA / 40% water as wetting fluid at 25°C.

Integrity test to be done by Water Intrusion Test. For information on test equipment or test services, contact your Donaldson Sales Engineer and visit [www.donaldson.com](http://www.donaldson.com).

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# MATERIAL COMPLIANCE

## QUALITY TEST

All products have been inspected and released by Quality Assurance as having met the following requirements:

- All sterile filters are integrity tested to verify compliance with established quality and design specifications and to assure consistent and reliable performance.

MATERIALS	
Membrane	ePTFE
Upstream Support	Polypropylene
Downstream Support	Polypropylene
Drainage layer	Polypropylene
Core	Polypropylene
Outer Guard	Polypropylene
O-Rings	Silicone
Sealing Method	Thermal Bonding
Internal adaptor support ring	Stainless steel (463 & 2230)

## MATERIAL COMPLIANCE USA

All components of the Sterile Air filter element are FDA listed for food contact use in the Code of Federal Regulations (CFR), Title 21, part 177, specifically CFR 177.1520, CFR 177.1550, and CFR 177.2600 and USP Class VI plastics biological reactivity tests.

## MATERIAL COMPLIANCE EU

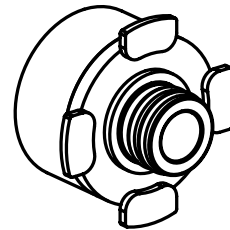
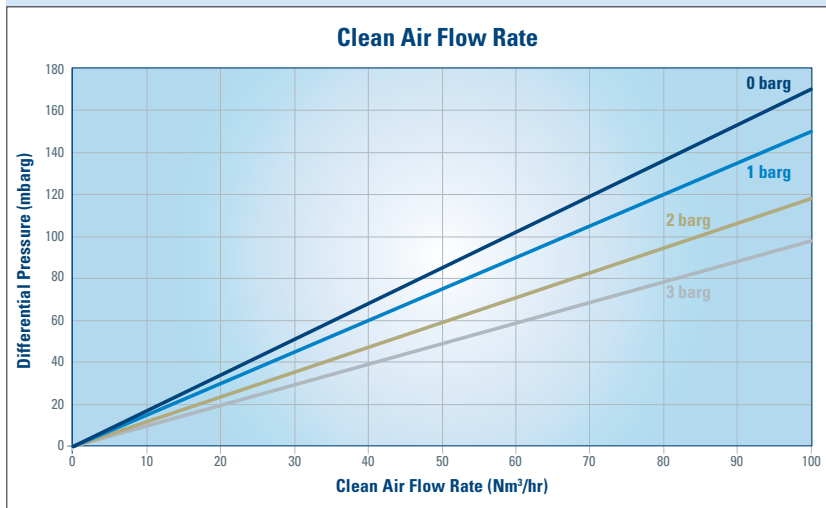
Meets the guideline for Food Contact Use as given in European Regulation (EC) Number 1935/2004. All plastic components meet the requirements of EU Directive EC/10/2011 relating to plastic materials and articles intended to come into contact with foodstuffs.

For specific details on O-Rings, besides Silicone O-ring, please contact your Donaldson Sales Engineer.

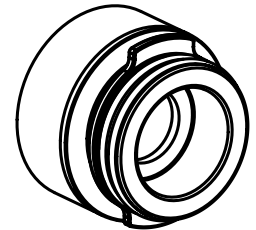
# SPECIFICATIONS

Autoclave 70 x 25 minute cycles at 135°C (275°F)

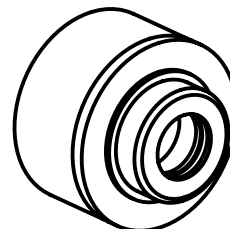
## Sterile Air Element Flow Characteristics (Air) Dimensions



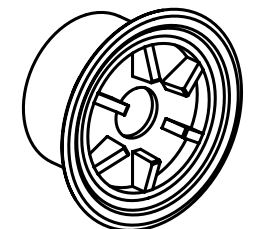
MCY 3330 & 4440



Code 2



MCY 2230 & 4463



Sealkleen™



[donaldson.com/process](https://donaldson.com/process)

Donaldson Company, Inc.  
Minneapolis, MN

Contact us



**Important Notice:** Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.

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