

Membrane Filtration

BECO® MEMBRAN H Air Mini

Membrane Filter Cartridges

BECO MEMBRAN H Air Mini filter cartridges with 0.2 µm hydrophobic membranes are ideal for the sterile filtration of air and gases in the food and beverage industry. The cartridges remove contaminants in small volumes, for example, sterilizing fermenter supply air, tank venting, or cooling down storage tanks after steam sterilization.

Features and Benefits

- Long-term steam-resistance at 273 °F (134 °C)
- Validated bacteria retention capacity
- High throughput due to very low inherent membrane resistance

Configuration

BECO MEMBRAN H Air Mini filter cartridges are made with single layer Polytetrafluorethylene (PTFE) membrane and polypropylene components and are characterized by high mechanical stability.



Materials

Filter membrane:	single layer PTFE
Support fleeces:	Polypropylene
Cage, Core:	Polypropylene
End cap/adaptor:	Polypropylene
O-rings:	Silicone

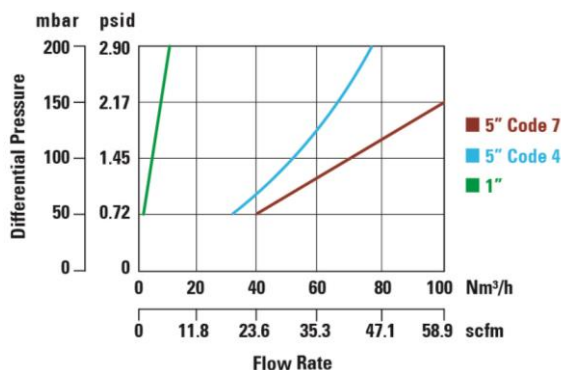
Technical Data

Nominal length inclusive Adapter	Adapter	Filter area
1" (33 mm)	1	0.53 ft ² (0.05 m ²)
5" (133 mm)	4	2.15 ft ² (0.20 m ²)
5" (165 mm)	7	3.98 ft ² (0.37 m ²)

Diameter:	2.24 in (56 mm for Code 1 and 4) 2.75 in (70 mm for Code 7)
Maximum differential pressure:	72.5 psid at 68 °F (500 kPa, 5.0 bar at 20 °C) 7.25 psid at 273 °F (50 kPa, 0.5 bar at 134 °C)
Maximum counter pressure:	43.5 psid at 68 °F (300 kPa, 3.0 bar at 20 °C)
Sterilization	at least 50 times in either direction of flow and 50 times in the reverse direction at 273 °F (134 °C) for 20 minutes

Flow Rate

1" and 5" with air at atmospheric pressure (standard values)



Integrity Test

Bubble Point

at 68 °F (20 °C)
≥ 14.5 psig (1000 mbar) in 60% IPA

Water Intrusion Test (WIT)

≤ 0.07 ml/min pure water flow per filter cartridge at 36.3 psig (250 kPa, 2.5 bar)

Microbial Retention

Quantitative retention of *Brevundimonas diminuta* (ATCC 19146) at a challenge level of 10⁷/cm²

Adapter Codes

Code 1	Code 4
Single open end (SOE) 2-118 O-ring without spear	Internal Single open end (SOE) 116 O-ring without spear



Code 7

Single open end (SOE)
2-226 O-ring
double bayonet adapter
without spear



Ordering Information

BECO MEMBRAN H Air Mini filter cartridges with protective foil in carton.

Type	Retention rating	Adapter	Nominal length	Gasket
PTM	02 = 0.20 µm	1 = Code 1	E = 1" (25 mm)	S = Silicone
		4 = Code 4	F = 5" (127 mm)	
		7 = Code 7		

Example

PTM	02	1	E	S
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BECO MEMBRAN H Air Mini filter cartridges; 0.2 µm retention rating; Code 1, 1" (25 mm); silicone gasket

Safety

When used as directed, there are no known unfavorable effects associated with this product.

BECO MEMBRAN H Air Mini filter cartridges do not require the provision of safety-relevant information.

Storage, handling and transport do not present any environmental and health risks.

Disposal

BECO MEMBRAN H Air Mini filter cartridges should be treated as industrial waste. Any local and other official regulations in relation to the filtered product must be followed.

Storage

Store filter cartridges in their original packaging and in a dry, odor-free and UV ray protected place.

Use filter cartridges within 60 months after production date.

Certified Quality

During the production process, BECO MEMBRAN H Air Mini filter cartridges are regularly monitored to ensure consistent excellent quality control and are 100% integrity tested as a part of the manufacturing process.

North America
44 Apple Street
Tinton Falls, NJ 07724
Toll Free: 800 656-3344
(North America only)
Tel: +1 732 212-4700

Europe/Africa/Middle East
Auf der Heide 2
53947 Nettersheim, Germany
Tel: +49 2486 809-0

Friedensstraße 41
68804 Altlußheim, Germany
Tel: +49 6205 2094-0

An den Nahewiesen 24
55450 Langenlonsheim, Germany
Tel: +49 6704 204-0

China
No. 3, Lane 280,
Linhong Road
Changning District, 200335
Shanghai, P.R. China
Tel: +86 21 5200-0099

Singapore
4 Loyang Lane #04-01/02
Singapore 508914
Tel: +65 6825-1668

Brazil
Rua Clark, 2061 - Macuco
13279-400 - Valinhos, Brazil
Tel: +55 11 3616-8400

**For more information, please
email us at filtration@eaton.com
or visit www.eaton.com/filtration**

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