

Membrane Filtration

BECO® MEMBRAN H Air

Membrane Filter Cartridges

BECO MEMBRAN H Air 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 large 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 filter cartridges are hydrophobic single layer Polytetrafluorethylene (PTFE) membrane filter cartridges and are characterized by high mechanical stability.



Materials

Filter membrane:	Hydrophobic single layer PTFE
Support fleeces:	Polypropylene
Cage, Core:	Polypropylene
End cap/adapter:	Polypropylene, adapter with reinforcing ring
O-rings:	Silicone

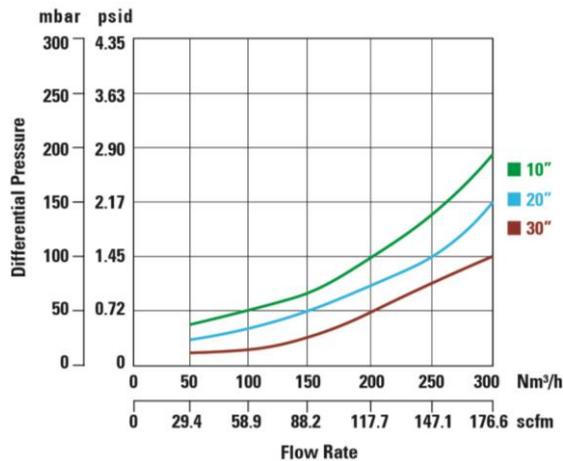
Technical Data

Nominal length	Filter area
10" (250 mm)	8.1 ft ² (0.75 m ²)
20" (500 mm)	16.2 ft ² (1.50 m ²)
30" (750 mm)	24.5 ft ² (2.25 m ²)

Diameter:	2.72 in (69 mm)
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 150 times either direction of flow and 150 times in the reverse direction at 273 °F (134 °C) for 20 minutes

Flow Rate

10", 20" and 30" with air at atmospheric pressure (standard values)



Integrity Test

Nitrogen Diffusion

at 68 °F (20°C) per 10" cartridge element
 ≤ 11 ml/min at 10.2 psig (70 kPa, 700 mbar) with 60% isopropanol

Bubble Point

at 73 °F (23°C)
 ≥ 100 mbar with 60% isopropanol

Water Intrusion Test (WIT)

≤ 0.10 ml/min pure water at 36.3 psi (250 kPa, 2.5 bar) per 10" element

Microbial Retention

Quantitative retention of *Brevundimonas diminuta* (ATCC 19146) at a challenge level of 10^7 /cm²

Adapter Codes

Code 7

Single open end (SOE)
 2-226 O-ring
 double bayonet adapter
 with spear



Ordering Information

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

Type	Retention rating	Adapter	Nominal length	Gasket
PTC	02 = 0.20 µm	7 = Code 7	1 = 10" (250 mm)	S = Silicone
			2 = 20" (500 mm)	
			3 = 30" (750 mm)	

Example

PTC	02	7	1	S
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BECO MEMBRAN H Air filter cartridges; 0.2 µm retention rating; Code 7, 10" (250 mm); silicone gasket

Safety

When used as directed, there are no known unfavorable effects associated with this product. BECO MEMBRAN H Air filter cartridges do not require the provision of safety-relevant information.

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

Disposal

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

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