

**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**

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

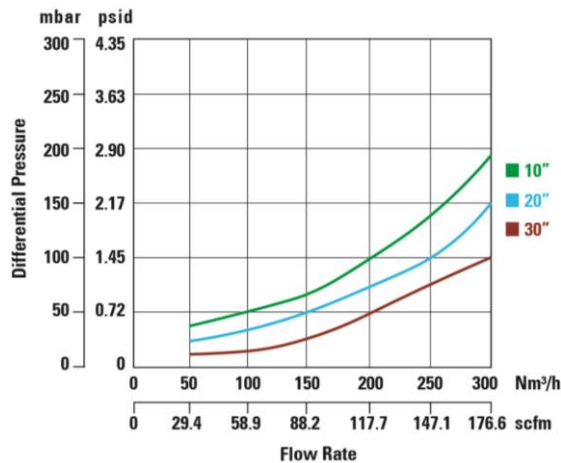
## Technical Data

| Nominal length | Filter area                                 |
|----------------|---|
| 10" (250 mm)   | 8.1 ft <sup>2</sup> (0.75 m <sup>2</sup> )  |
| 20" (500 mm)   | 16.2 ft <sup>2</sup> (1.50 m <sup>2</sup> ) |
| 30" (750 mm)   | 24.5 ft <sup>2</sup> (2.25 m <sup>2</sup> ) |

|                                       |  |
|---------------------------------------|--|
| <b>Diameter:</b>                      | 2.72 in (69 mm)  |
| <b>Maximum differential pressure:</b> | 72.5 psid at 68 °F<br>(500 kPa, 5.0 bar at 20 °C)<br>7.25 psid at 273 °F<br>(50 kPa, 0.5 bar at 134 °C)              |
| <b>Maximum counter pressure</b>       | 43.5 psid at 68 °F<br>(300 kPa, 3.0 bar at 20 °C)  |
| <b>Sterilization</b>                  | 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  
 $\leq 11$  ml/min at 10.2 psig (70 kPa, 700 mbar) with 60% isopropanol

### Bubble Point

at 73 °F (23°C)  
 $\geq 100$  mbar with 60% isopropanol

### Water Intrusion Test (WIT)

$\leq 0.10$  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  $10^7$ /cm<sup>2</sup>

## Adapter Codes

### Code 7

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



## Ordering Information

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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

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|     |    |   |   |   |
|-----|----|---|---|---|
| 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

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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

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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

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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

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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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