



## Posidyne® UP Filter



### Description

The Posidyne UP filter is well suited for ultrapure water application for today's advanced semiconductor manufacturers. These filter cartridges utilize the crescent-shaped Ultipleat® filter design, the latest advancement in filter technology, along with the benefit of a positive zeta potential.

- Excellent particle removal efficiency
- Positive zeta potential charge over a wide pH range
- Two removal ratings available
- Integrity testable
- Many configurations available
- High flow rates
- Low extractables
- Quick rinse-up
- Manufactured in a cleanroom environment
- 100% integrity tested

### Specifications

#### Materials

- Medium: Nylon 6,6 positively charged
- Core and cage: Polypropylene
- End caps: Polyester
- Support and drainage: Polyester
- O-ring options: Silicone

#### Removal Ratings

- 0.1 µm, 0.04 µm

#### Filter Areas

- 1.4 m<sup>2</sup> / 15 ft<sup>2</sup> per 254 mm / 10 in segment

#### Configurations

- Nominal length: 254 mm / 10 in, 508 mm / 20 in, 762 mm / 30 in and 1016 mm / 40 in
- Diameter: 70 mm / 2.75 in
- O-ring size/end caps:
  - Code 3 (222 double O-ring / flat end)
  - Code 8 (222 double O-ring / finned end)
  - Code 7 (226 double O-ring / bayonet lock / finned end)

#### Performance Characteristics

- Resistivity rinse-up to 18 megohm-cm: < 35 minutes
- Single digit ppb TOC rinse-up: < 35 minutes

#### Operating Characteristics

- Maximum Operating Temperature: 50°C / 120°F
- Maximum Differential Pressure: 0.41 MPa @ 50°C / 60 psid @ 120°F

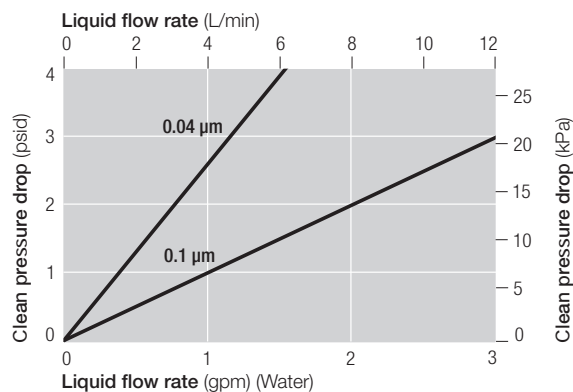
#### Integrity Test Values<sup>1</sup>

Per 254 mm / 10 in segment

- 0.04 µm < 18.8 cm<sup>3</sup>/min @ 0.28 MPa / 40 psig
- 0.1 µm < 50 cm<sup>3</sup>/min @ 0.35 MPa / 50 psig

<sup>1</sup> Test fluid used is 100% H<sub>2</sub>O.

## Pressure Drop vs. Liquid Flow Rate



Cartridge Style AB1

## Part Numbers / Ordering Information

| Part Number | Removal Rating (µm) | Nominal Length (mm / in) | Configuration Code | O-Ring Material <sup>2</sup> |
|-------------|---------------------|--------------------------|--------------------|------------------------------|
| AB1UNIZ8EH4 | 0.1                 | 254 / 10                 | 8                  | Silicone                     |
| AB1UNIZ7EH4 | 0.1                 | 254 / 10                 | 7                  | Silicone                     |
| AB1UNIZ3EH4 | 0.1                 | 254 / 10                 | 3                  | Silicone                     |
| AB2UNIZ8EH4 | 0.1                 | 508 / 20                 | 8                  | Silicone                     |
| AB2UNIZ7EH4 | 0.1                 | 508 / 20                 | 7                  | Silicone                     |
| AB2UNIZ3EH4 | 0.1                 | 508 / 20                 | 3                  | Silicone                     |
| AB3UNIZ8EH4 | 0.1                 | 762 / 30                 | 8                  | Silicone                     |
| AB3UNIZ7EH4 | 0.1                 | 762 / 30                 | 7                  | Silicone                     |
| AB3UNIZ3EH4 | 0.1                 | 762 / 30                 | 3                  | Silicone                     |
| AB4UNIZ8EH4 | 0.1                 | 1016 / 40                | 8                  | Silicone                     |
| AB4UNIZ7EH4 | 0.1                 | 1016 / 40                | 7                  | Silicone                     |
| AB4UNIZ3EH4 | 0.1                 | 1016 / 40                | 3                  | Silicone                     |
| AB1UNDZ8EH4 | 0.04                | 254 / 10                 | 8                  | Silicone                     |
| AB1UNDZ7EH4 | 0.04                | 254 / 10                 | 7                  | Silicone                     |
| AB1UNDZ3EH4 | 0.04                | 254 / 10                 | 3                  | Silicone                     |
| AB2UNDZ8EH4 | 0.04                | 508 / 20                 | 8                  | Silicone                     |
| AB2UNDZ7EH4 | 0.04                | 508 / 20                 | 7                  | Silicone                     |
| AB2UNDZ3EH4 | 0.04                | 508 / 20                 | 3                  | Silicone                     |
| AB3UNDZ8EH4 | 0.04                | 762 / 30                 | 8                  | Silicone                     |
| AB3UNDZ7EH4 | 0.04                | 762 / 30                 | 7                  | Silicone                     |
| AB3UNDZ3EH4 | 0.04                | 762 / 30                 | 3                  | Silicone                     |
| AB4UNDZ8EH4 | 0.04                | 1016 / 40                | 8                  | Silicone                     |
| AB4UNDZ7EH4 | 0.04                | 1016 / 40                | 7                  | Silicone                     |
| AB4UNDZ3EH4 | 0.04                | 1016 / 40                | 3                  | Silicone                     |

<sup>2</sup> Other O-ring materials are available, such as ultrapure clear silicone (H26 instead of H4)

Unit conversion: 1 bar = 100 kilopascals



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