

Azora™ Photochemical Bulk Filter

Groundbreaking new filtration media developed to drastically improve critical photochemical performance

Azora™ cartridge photochemical filters offer best-in-class contamination control for advanced, bulk photochemical applications targeting advanced technology nodes. Materials that most benefit from Azora filtration include EUV photoresists, immersion ArF photoresists, and critical underlayers.

The innovative membrane morphology of the polyimide material provides a unique tortuous flow path throughout the thickness of the membrane, increasing the chance of removal by impaction and collision effects. With superior contaminant retention, this membrane technology removes potential de-fect sources, improving critical photochemical performance and enabling users to meet critical process demands at advanced technology nodes.

Our Azora cartridge photochemical filter portfolio includes Azora Gen 1, our first generation membrane, and Azora Gen 2, our second generation innovative membrane designed with greater retention performance for sub-5 nm technology nodes including EUV applications.

APPLICATIONS

- Advanced photochemical and raw materials
- Advanced photosolvents

FEATURES & BENEFITS

| | |
|--|--|
| Polyimide material | Compatible with photoresists, photo solvents, and acidic chemicals* |
| | Provides excellent mechanical and thermal strength |
| Innovative membrane morphology | Morphology creates a highly tortuous flow path to enhance contaminant removal efficiency |
| Higher porosity with tortuous flow path | Enhances filtration efficiency without sacrificing flow rate |

*Not compatible with alkaline solution TMAH



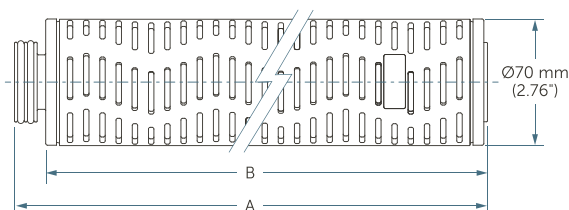
The Azora filter membrane provides superior contaminant retention.

SPECIFICATIONS

| | | Azora Gen 1 bulk cartridge filters | Azora Gen 2 bulk cartridge filters | Azora Gen 1 disposable filters | Azora Gen 2 disposable filters |
|-------------------------------------|---|--|--|--|--------------------------------------|
| Materials of construction | Membrane | Polyimide | | | |
| | Supports, core, sleeve, shell/housing | High density polyethylene (HDPE) | | | |
| | O-ring (222) | Encapsulated FKM (E-FKM) | | - | |
| Connections | | Code 0 | | 1/4" comporession fitting | |
| Membrane area | | 10": 1.01 m ² (10.9 ft ²) 20": 2.09 m ² (21.7 ft ²) | 10": 1.31 m ² (14.1 ft ²) 20": 2.62 m ² (28.2 ft ²) | 0.22 m ² (2.4 ft ²) | |
| Hold-up volume | | - | | 160 cc | |
| Maximum operating conditions | Maximum inlet pressure | - | | 0.34 MPa (3.4 bar, 50 psi) @ 25°C (77°F) | |
| | Maximum forward/reverse differential pressure | 0.24 MPa (2.4 bar; 50 psi) @ 25°C (77°F) | | 0.27 MPa (2.7 bar; 39 psi) @ 25°C (77°F) | |
| | Maximum temperature | 60°C (140°F) | | | |
| Flow performance | Typical device pressure drop | 10": 1.9 L/min @ 0.02 MPa | 10": 2.2 L/min @ 0.04 MPa | 1.4 L/min @ 0.06 MPa | 0.7 L/min @ 0.06 MPa |
| | | 20": 3.6 L/min @ 0.02 MPa | 20": 4.4 L/min @ 0.04 MPa | | |
| Format | Length | 10", 20" | | - | |
| | Diameter | 70 mm | | - | |

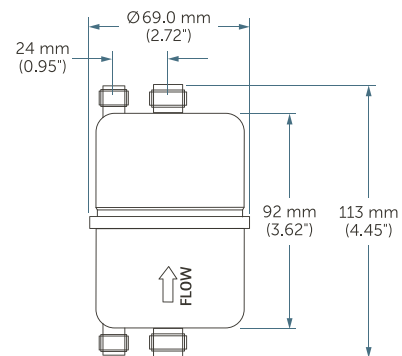
DRAWINGS

Azora Bulk Cartridge Filters – Code 0 (70 mm width)
Without Chemlock® Key



| Length | A | B |
|--------|-------------------|-------------------|
| 10" | 262.3 mm (10.33") | 245.0 mm (9.65") |
| 20" | 506.6 mm (19.94") | 489.2 mm (19.26") |

Azora Photochemical Disposable Filters



ORDERING INFORMATION

| PART NUMBER | PRODUCT TYPE | CLEAN | FORMAT | MEMBRANE |
|-------------|-------------------|------------|------------|-------------|
| AZ0101MTU3 | Cartridge filter | Ultraclean | 10", 70 mm | Azora Gen 1 |
| AZ0102MTU3 | Cartridge filter | Ultraclean | 20", 70 mm | Azora Gen 1 |
| AZ010S2S1U3 | Disposable filter | Ultraclean | Short | Azora Gen 1 |
| AZ0201MTU3 | Cartridge filter | Ultraclean | 10", 70 mm | Azora Gen 2 |
| AZ0202MTU3 | Cartridge filter | Ultraclean | 20", 70 mm | Azora Gen 2 |
| AZ020S2S1U3 | Disposable filter | Ultraclean | Short | Azora Gen 2 |

FOR MORE INFORMATION

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