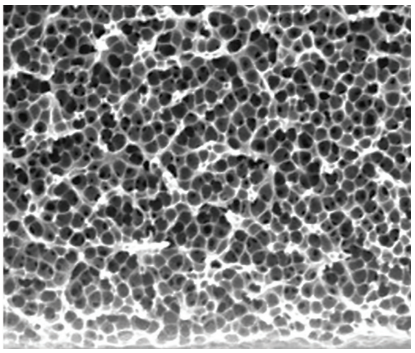
Azora™ Photochemical Filters

Groundbreaking new filtration media developed to drastically improve critical photochemical performance

Azora™ photochemical filtration technology offers best-in-class contamination control in advanced applications. The innovative membrane morphology of the polyimide material provides both high flow and high retention rates for bulk chemical and point-of-use filtration applications. This advance in membrane technology will enable chemical suppliers and lithography engineers alike to meet critical process demands at sub-10 nm technology nodes.

The Azora membrane provides superior contaminant retention in bulk chemical and POU filter designs.



Innovative membrane technology enables users to meet critical process demands at sub-10 nm technology nodes.

APPLICATIONS

- Sub-10 nm advanced photochemical applications and photo solvents

FEATURES & BENEFITS

Polyimide material	Compatible with photoresists, photo solvents and acidic chemicals* 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

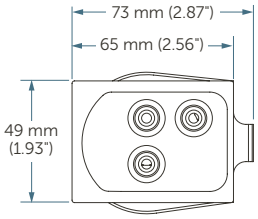
SPECIFICATIONS

		BULK CARTRIDGE FILTERS	DISPOSABLE FILTERS	POU FILTERS
Materials of construction	Membrane	Polyimide	Polyimide	Polyimide
	Supports, core, sleeve, shell/ housing	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)
	O-rings	Encapsulated FKM (E-FKM)	—	Kalrez®
Connections		Code 0 (222 Flat)	¼" compression fitting	Impact 2 filter manifold
Surface area		10": 1.01 m^2 (10.9 ft^2) 20": 2.02 m^2 (21.7 ft^2)	0.22 m^2 (2.4 ft^2)	Short: 0.12 m^2 (1.3 ft^2) Long: 0.24 m^2 (2.6 ft^2)
Hold-up volume		—	160 cc	55 cc, 110 cc
Operating conditions	Maximum inlet pressure	—	0.34 MPa (3.4 bar, 50 psi) @ 25°C (77°F)	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)	0.27 MPa (2.7 bar, 39 psi) @ 25°C (77°F)
	Maximum temperature	60°C (140°F)	60°C (140°F)	40°C (104°F)
Flow performance	Typical device pressure drop	10": 2.4 L/min @ 0.2 kgf/cm^2 20": 4.5 L/min @ 0.2 kgf/cm^2	1.5 L/min @ 0.6 kgf/cm^2	Short: 0.9 L/min @ 1.0 kgf/cm^2 Long: 1.8 L/min @ 1.0 kgf/cm^2
Dimensions	Length	10", 20"	—	—
	Diameter	70 mm	—	—

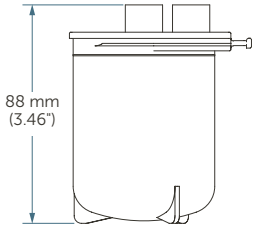
DIMENSIONS

Azora POU Disposable Filters with Impact 2 Filter Manifold

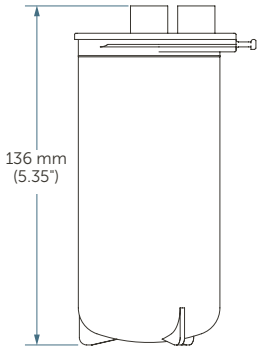
Top View



Side View: Short

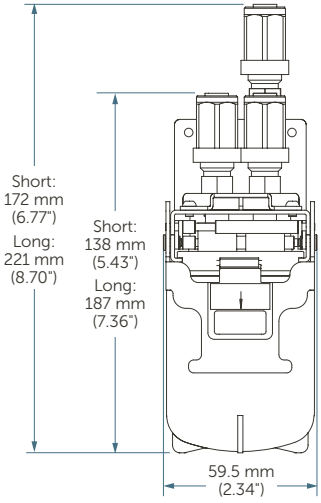


Side View: Long

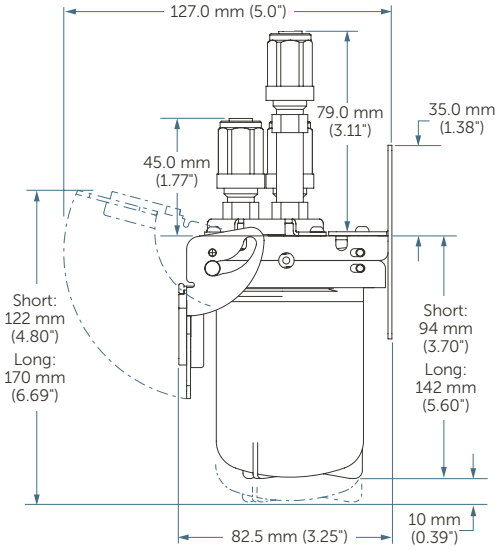


6.35 mm Flowell™ 60 Type

Front View

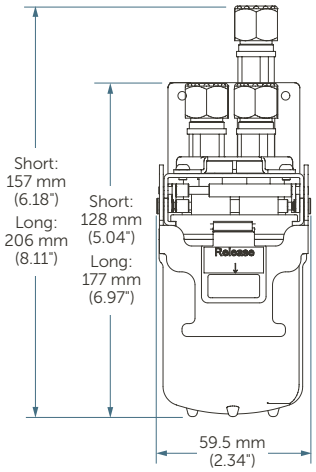


Side View

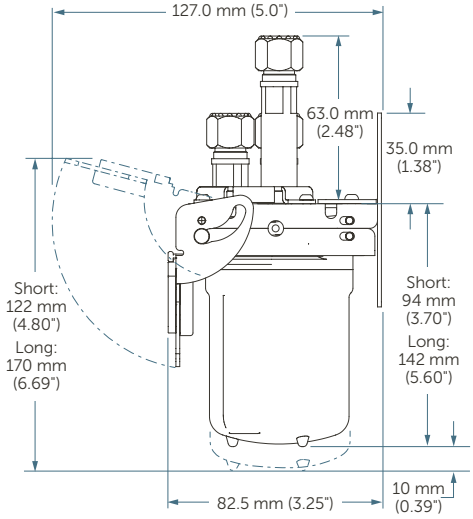


6.35 mm Super Type Pillar®

Front View



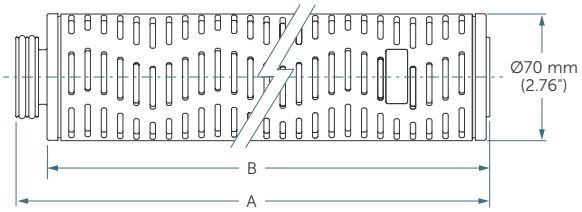
Side View



DIMENSIONS (CONTINUED)

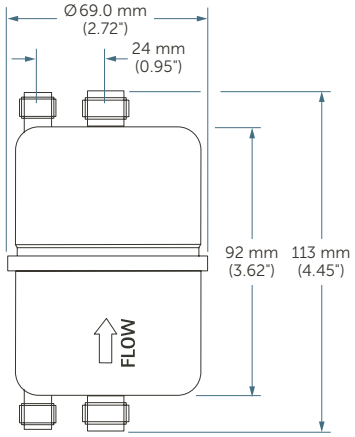
Azora Bulk Cartridge Filters – Code 0 (70 mm width)

Without Chemlock® Key



Length	A	B
10"	262.3 mm (10.33")	245.0 mm (9.65")
20"	506.5 mm (19.94")	489.2 mm (19.26")

Azora Photochemical Disposable Filters



ORDERING INFORMATION

Azora Photochemical Cartridge Filters: part number

AZ 01 0 _ M T U1

- **Clean** — U1 = Ultraclean
- **O-ring** — T = E-FKM
- **Diameter and pleating** — M = 70 mm
- **Length** — 1 = 10" / 2 = 20"
- **Configuration** — 0 = Code 0
- **Membrane** — 01 = Gen 1
- **Product family** — AZ = Azora liquid filter

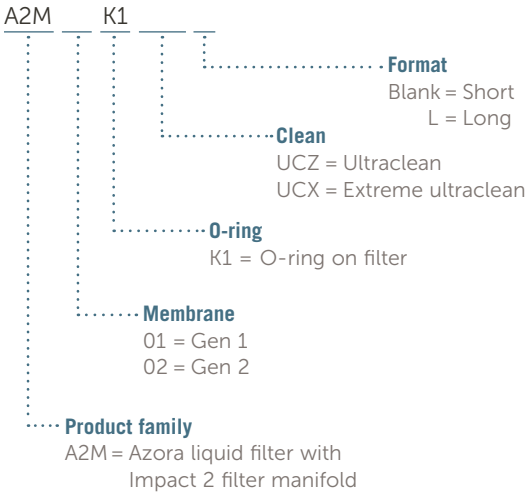
Azora Photochemical Disposable Filters: part number

AZ 01 0 S2 S 1 U1

- **Clean** — U1 = Ultraclean
- **Quantity** — 1 = 1 pkg
- **Fitting** — S = Compression fitting
- **Size** — S2 = Short
- **Connection** — 0 = ¼" compression fitting
- **Membrane** — 01 = Gen 1
- **Product family** — AZ = Azora liquid filter

ORDERING INFORMATION (CONTINUED)

Azora POU Disposable Filters: part number



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