



# QuickChange<sup>®</sup> AT and ATX Cartridge Filters

Non-dewetting membrane technology in a prewet filter  
that delivers rapid changeout and improved operating efficiency



The patented QuickChange membrane offers more wettable surface, while preventing de-wetting and subsequent system downtime.

## The Solution for Ultra-Pure Process Fluids in Recirculation Baths and Chemical Delivery Systems

QuickChange AT and ATX Cartridge filters, designed for use in any aqueous-based chemical are shipped water-wet, and require no IPA prewetting procedures. Without an IPA prewetting requirement, QuickChange AT and ATX filters prevent alcohol/chemical interaction, avoid potential sources of contamination, and eliminate the cost and inconvenience of hazardous waste disposal. QuickChange AT and ATX filters reduce filter changeout time, minimize system downtime, and lower cost-of-ownership.

### Less Chemical Use/Handling, More Cleanliness and Safety

Non-dewetting, water-wet, ready-to-use filters eliminate the time, cost, inconvenience and hazardous waste disposal associated with conventional IPA prewetting. The QuickChange family of cartridge filters provide the highest overall equipment efficiency (OEE) in the industry.

### Superior Filtration Efficiency and High Flow

QuickChange AT and ATX's non-dewetting, pleated membrane allows cartridge filters to maintain high flow, even with small pore sizes. QuickChange filter's consistent flow rates stabilize process parameters and decrease system downtime. The modified surface of the QuickChange membrane resists dewetting even in outgassing chemistries such as piranha, SC1 and SC2.

## Product Features

Non-dewetting PTFE membrane filter pre-wet and packaged in high-purity DI water

Unique, patented membrane

Available in retention ratings of 0.05  $\mu\text{m}$ , 0.1  $\mu\text{m}$  and 0.2  $\mu\text{m}$

Aqueous-based chemical compatibility

## Product Benefits

Eliminates prewetting and flushing cycles. Eliminates chemical usage while reducing system downtime during filter changeouts. Saves time, greatly increases equipment uptime.

The prewet, high performance membrane provides a surface which prevents dewetting in air, during installation or chemical dumps/drain.

Provides excellent small particle retention for a variety of particle sizes.

Recommended for aqueous-based chemicals at ambient temperatures (including  $\text{H}_2\text{SO}_4$ ,  $\text{H}_3\text{PO}_4$ ,  $\text{HNO}_3$ , HF, HCl, BOE,  $\text{NH}_4\text{F}$ ,  $\text{H}_2\text{O}_2$ , TMAH,  $\text{NH}_4\text{OH}$ , and ozonated water) and elevated temperature applications (including SC1, SC2, piranha etch, nitride etch, and metal etch).

# QuickChange AT Cartridge Filters

Materials	Membrane: Patented non-dewetting PTFE packaged in high purity DI water
	Supports: PFA pleat supports, sleeve and endcaps
Membrane Area	9,000 cm <sup>2</sup> (9.7 ft. <sup>2</sup> )
Connections	Code 0 (2-222) O-rings
Maximum Operating Conditions	Maximum Forward Differential Pressure: 0.51 MPa (5.1 bar, 75 psid) @ 25° C 0.0517 MPa (0.517 bar, 7.5 psid) @ 150° C
	Maximum Reverse Differential Pressure: 0.34 MPa (3.4 bar, 50 psid) @ 25° C
	Maximum Operating Temperature: 150° C at 0.5 bar (7.5 psi)
Cleanliness	< 25 particles/L > 0.5 µm after 17-minute water flush at 12 L/min.
TOC Recovery	TOC recovery within 10 ppb of feed after a 120-liter water flush at 1 L/min.
Resistivity Recovery	Resistivity recovery within 0.5 mega-ohm of feed after a 120-liter water flush at 1 L/min.

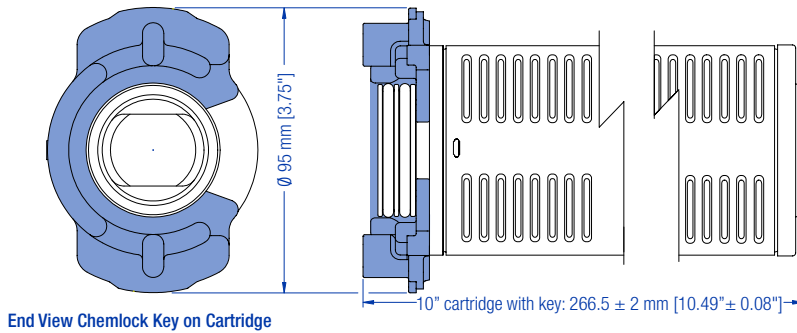
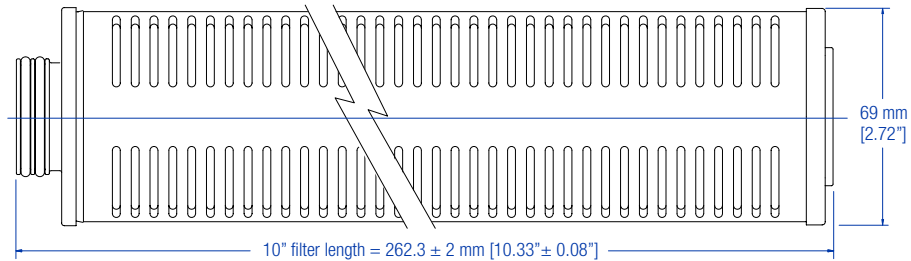
## QuickChange AT 10" Cartridge Ordering Information

QCC
 
A
T1
 
K

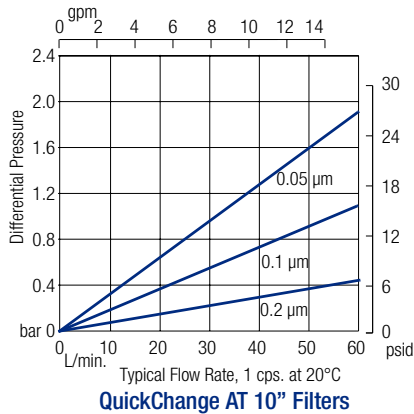
Retention Rating  
 Z = 0.05 µm  
 V = 0.1 µm  
 G = 0.2 µm

O-rings  
 O1 = TEV  
 C1 = Chemraz  
 K1 = Kalrez

Optional Chemlock® key attached to cartridge for use with Chemlock Housing ONLY.



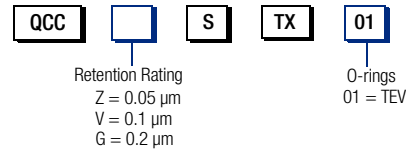
## Flow Rates



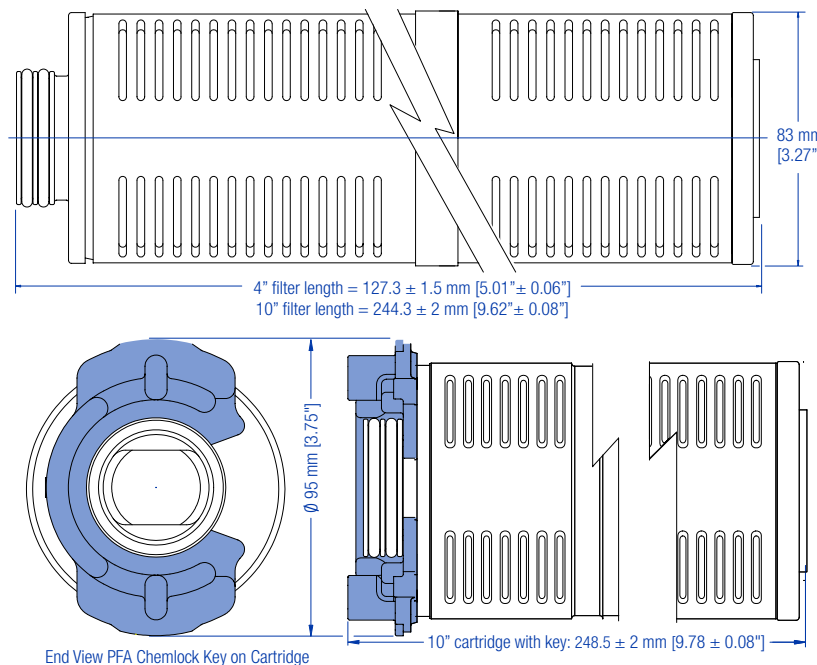
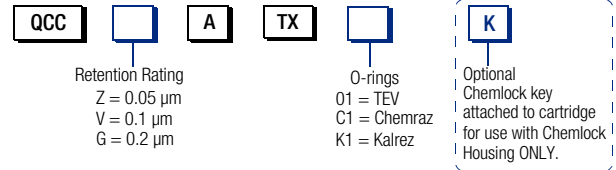
# QuickChange ATX Cartridge Filters

Materials	Membrane: Patented non-dewetting PTFE packaged in high purity DI water
	Supports: PFA pleat supports, sleeve and endcaps
	O-rings available: see ordering information
Membrane Area	4" AT: 5000 cm <sup>2</sup> (5.4 ft. <sup>2</sup> ) 10" ATX: 13000 cm <sup>2</sup> (14.0 ft. <sup>2</sup> )
Connections	Code 0 (2-222) O-rings
Maximum Operating Conditions	Maximum Forward Differential Pressure: 0.45 MPa (4.5 bar, 65 psid) @ 25° C 0.0517 MPa (0.517 bar, 7.5 psid) @ 150° C
	Maximum Reverse Differential Pressure: 0.34 MPa (3.4 bar, 50 psid) @ 25° C
	Maximum Operating Temperature: 150° C at 0.5 bar (7.5 psi)
Cleanliness	< 25 particles/L > 0.5 µm after 17-minute water flush at 12 L/min.
TOC Recovery	TOC recovery within 10 ppb of feed after a 120-liter water flush at 1 L/min.
Resistivity Recovery	Resistivity recovery within 0.5 mega-ohm of feed after a 120-liter water flush at 1 L/min.

## QuickChange ATX 4" Cartridge Ordering Information



## QuickChange ATX 10" Cartridge Ordering Information



Consult our applications specialists with any questions.  
Chemlock, Mykrolis and QuickChange are registered trademarks of Mykrolis Corporation.  
The Mykrolis logo is a trademark of Mykrolis Corporation.  
Chemraz is a trademark of Green, Tweed of Delaware, Inc.  
Teflon is a trademark of E.I. du Pont de Nemours and Company.  
Kalrez and Viton are trademarks of DuPont Dow Elastomers, L.L.C.

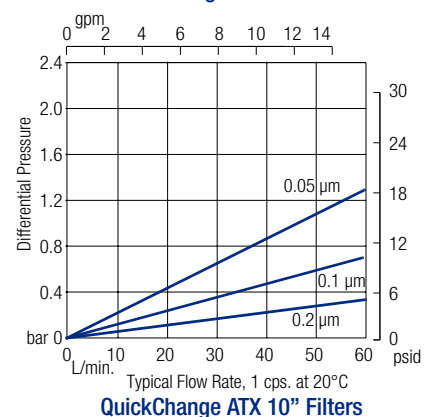
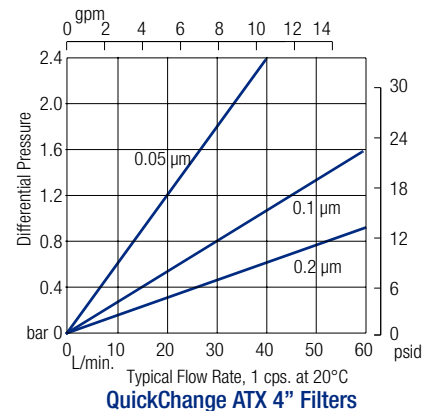
Legal/Trademarks: [www.mykrolis.com/corporate.nsf/docs/legal](http://www.mykrolis.com/corporate.nsf/docs/legal)  
Worldwide Offices: [www.mykrolis.com/corporate.nsf/docs/worldwide](http://www.mykrolis.com/corporate.nsf/docs/worldwide)

U.S.:  
Billerica, MA 978-436-6500  
Allen, TX 972-359-4000  
San Diego, CA 858-452-0124  
Japan:  
Tokyo 81 3 5442 9718  
Kyushu 81 92 471 8133  
Osaka 81 6 6390 0594

Europe:  
France 33 4 7635 73 00  
Germany 49 816 595 110  
Asia:  
Singapore 65 6745 2422  
Korea 82 31 738 5300  
People's Republic of China 86 21 5080 5600  
Taiwan 886 3 571 0178

Lit. No. PF126 Rev. E 20 July 2004  
Printed in the U.S.A. © 1997-2004 Mykrolis Corporation. All rights reserved.

## Flow Rates



# Mykron

Mykron Microelectronics Co., Ltd.

上海资方微电子有限公司

Suite 318, B Office Tower, Poly Plaza  
No.14, Dong Zhi Men Street (South), Dong Cheng District  
Beijing, 100027, China

Tel. (86)10-6551 0500 Fax (86)10-6551 0501