

PATsmart™ FlowVPX® System with Cary 60

Recommended Steps for Maintenance, Cleaning, & Proper Use

Best Practices

System Maintenance Checklist

	Per Run	Weekly	Monthly	Annually
Quick Check Test	✓			
Clean Flow Cell	✓			
Restart Cary Spectrophotometer	✓	✓		
Clean Delivery Fiber		✓		
Coupler Check			✓	
System Suitability Test			✓	
Repligen Preventive Maintenance Service				✓

System Maintenance Guidelines

Quick Check Test

Perform with a new or clean Fibrette Optical Component.

Passing criteria: 70.00% relative transmission at 500 nm.

Quick Check can be initiated in the Quick Kinetics app by clicking the icon (see right) in the top navigation bar.



System Suitability Test

Run provided CHEM013 standard, ConfiRM® slope reference material, or the current UV standard (e.g., BSA). It is recommended to perform a Quick Check prior to System Suitability tests to ensure adequate transmission.

Clean fused silica vessels after each use. Rinse with water followed by cleaning agent (IPA, methanol, or ethanol) Rinse with water again, then air dry or spray with compressed air.

Optical Pathway Cleaning

Clean the optical path of the system to ensure optimal light transmission.

- Use a lint-free wipe and compressed air to clean the Delivery Fiber tip.
- Use a lint-free wipe with isopropyl alcohol to gently clean the Flow Cell window and detector module.
- Wipe in a single direction 3 to 5 times.
- Follow with a dry wipe as needed.

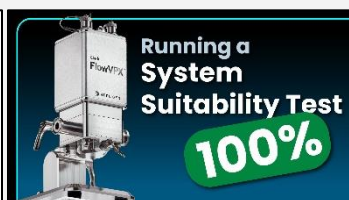
Flow Cell Cleaning and Storage

Flush with 0.1–0.5 M NaOH followed by deionized (DI) water or WFI.

Short term (up to 2 weeks): Store in-line with 0.1 M NaOH in the flow path.

Long term: Store dry. Flush with NaOH and then DI or WFI before letting dry. Use the plastic protective cylinder included in packaging to store the Flow Cell.

For additional help resources, check out the Repligen Knowledge Base: www.repligen.com/support/knowledge-base



Running a System Suitability Test

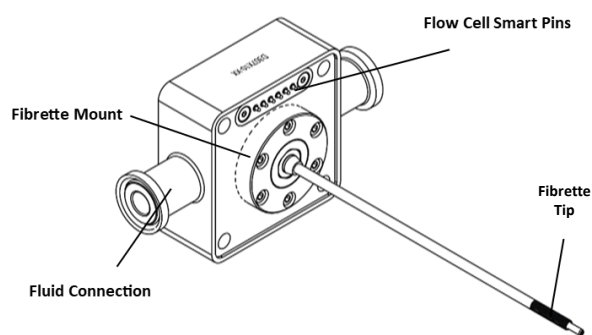


Cleaning & Maintenance

repligen.com

© 2026 Repligen Corporation. All rights reserved. The trademarks mentioned herein are the property of Repligen Corporation and/or its affiliate(s) or their respective owners. | DOC0277 eRev. 6.0 02 Mar 2026

 **REPLIGEN**

**Flow Cell Components****General Troubleshooting****Loading and Unloading the Flow Cell****Flow Cell Troubleshooting Tips****Flow Cell Not Detected**

Clean the Smart Pins using a lint-free wipe and IPA. Ensure the pins can be gently pushed down and spring back when released. Use a new, clean spot on the lint-free wipe with IPA and wipe the contact pads on the FlowVPX System.

Flow Cell Zero Not Found

On first failure, try again. On second failure, contact Analytical Support.

Transmission Test Failed

- Clean the end of the Delivery Fiber and the Flow Fibrette using a lint-free wipe and compressed air.
- Clean the Flow Cell window and the Detector Module window using a lint-free wipe and IPA.
- For Stainless Steel Flow Cells only, flush with 0.1 M NaOH followed by DI water or WFI.
- If the Transmission Test still fails, contact Analytical Support.

Flow Cell Specifications

Part Number	Type	Size	Max Flow Rate	Hold-up Volume	Max Pressure	Operating Temperature
OC2002-2	Stainless Steel	3 mm	1.5 LPM	0.9 mL	5.5 bar (80 psi)	1°C – 49°C
OC2001	Stainless Steel	10 mm	20 LPM	9.0 mL	5.5 bar (80 psi)	1°C – 49°C
OC2004	Stainless Steel	22 mm	160 LPM	47 mL	5.5 bar (80 psi)	1°C – 49°C
OC2017	Stainless Steel	1.5 in	225 LPM	144 mL	6.2 bar (90 psi)	0°C – 48°C
OC2012	Stainless Steel	2 in	250 LPM	266 mL	6.2 bar (90 psi)	0°C – 48°C
OC2008-XR	Single Use	3 mm	1.5 LPM	2.9 mL	4.1 bar (60 psi)	4°C – 40°C
OC2009-XR	Single Use	10 mm	20 LPM	24.6 mL	4.1 bar (60 psi)	1°C – 40°C
OC2010-XR	Single Use	22 mm	160 LPM	109.4 mL	4.1 bar (60 psi)	1°C – 40°C
OC2014-XR	Single Use	0.5 in	20 LPM	31.1 mL	4.1 bar (60 psi)	1°C – 40°C
OC2016-XR	Single Use	1 in	100 LPM	145.4 mL	4.1 bar (60 psi)	1°C – 40°C