



CTech™ FlowVPX® & Beams™ Systems: Best Practices

Recommended Steps for Maintenance, Cleaning, & Proper Use

Best Practices

	System Maintenance Checklist							
	Per Run	Weekly	Monthly	Annually				
Quick Check Test	\checkmark							
Clean Flow Cell	\checkmark							
Restart Software & Beams Source		\checkmark						
Run System Suitability Test			\checkmark					
Repligen Preventive Maintenance Service				\checkmark				

System Maintenance Guidelines						
Quick Check	Optical Pathway Components (only if cleaning)					
Perform with a clean Flow Cell and Fibrette® Optical Component. ViPER Passing Criteria: 40.00% Transmission at Beams wavelength	Clean the optical path of the system to ensure optimal light transmission.					
Quick Check can be performed from the Quick Kinetics app by clicking the icon (right) in the top navigation bar.	• Use a lint-free wipe and compressed air to clean the Flow Fibrette tip.					
Run System Suitability Test	 Use a lint-free wipe soaked in isopropyl alcohol to gently clean 					
Run recommended standard for Beams wavelength options:	 Wipe in a single direction. 					
260 nm, 280 nm, 310 nm: CHEM013 Reference Standard 272 nm: ConfiRM [®] Slope Reference Material						
It is recommended to perform a Transmission Check via Transmission Tool prior to System Suitability tests to ensure adequate transmission.	Follow with a dry wipe as needed.					
Restarting Software & Beams Source	Flow Cell Storage					
Disconnect the Beams Source from the Controller and reconnect it on a weekly basis. If Beams System is in continuous use for more than a week, disconnect and reconnect between runs.	 Short Term: If storing Flow Cell in-line for up to 2 weeks, store with 0.1 M NaOH in the flow path. Long Term: Store dry. Flush the Flow Cell with NaOH and then DI or WFI 					
Flow Cell Cleaning	water before letting dry. If the Flow Cell is unloaded, use the plastic					
Flush with $0.1 - 0.5$ M NaOH followed by deionized (DI) or WFI water.	protective cylinder included in shipping package to store the Flow Cell.					

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



Running a System Suitability Test for the CTech FlowVPX System

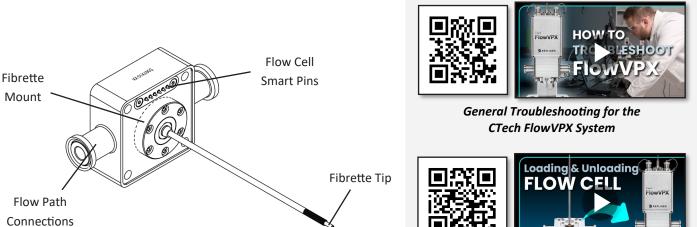


Cleaning & Maintenance for the CTech FlowVPX System

repligen.com

© 2024 Repligen Corporation. All rights reserved. The trademarks mentioned herein are the property of Repligen Corporation and/or its affiliate(s) or their respective owners. | DOC0308 eRev. 3.0 5/20/2024





Flow Cell components and parts

Loading and Unloading the Flow Cell for the CTech FlowVPX System

Flow Cell Troubleshooting Tips						
Flow Cell Not Detected	Transmission Test Failed					
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.	 Clean the end of 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. 					
Flow Cell Zeroing Unsuccessful	• For Stainless Steel Flow Cells only, flush the Flow Cell with					
On first failure, try again. On second failure, contact Repligen's Analytics Support.	 0.1 M NaOH followed by DI or WFI water. If the Transmission Test still fails, contact Repligen's Analytics Support. 					

Flow Cell Specifications								
Part Number	Туре	Size	Max Flow Rate	Hold-up Volume	Max Pressure	Operating Temperature		
OC2002	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	~130.7 mL	4.1 bar (60 psi)	1°C – 40°C		