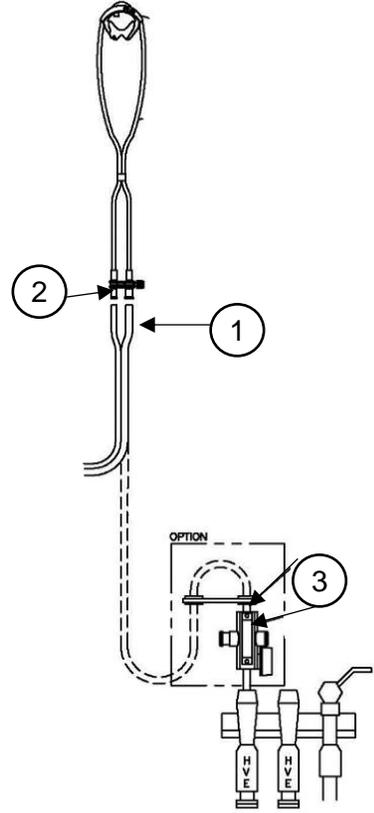


Vacuum Controller Quick Start Guide

Porter In-Line Vacuum Control, MatrX Scavenger Control Valve, and Automatic Vacuum Switch

1. Connecting the Vacuum Controller

1.1. Porter In-Line Vacuum Control

1	<p>Attach one end of the larger diameter Fresh Gas and Vacuum Hose (1) to the larger diameter of the H-Union of the Silhouette Disposable Circuit (2).</p>	
2	<p>Attach the other end of the larger diameter Fresh Gas and Vacuum Hose to the In-Line Vacuum Control (3).</p> <p>NOTE: Opposite end of In-line Vacuum Control must be connected to a vacuum source.</p>	

1.2. MatrX Scavenger Control Valve

1	<p>Attach one end of the larger diameter Fresh Gas and Vacuum Hose to the larger diameter of the H-Union of the Silhouette Disposable Circuit.</p>	
2	<p>Attach the other end of the larger diameter Fresh Gas and Vacuum Reusable hose to the White Adapter on the front of the Scavenger Control Valve (1).</p>	

1.3. Automatic Vacuum Switch

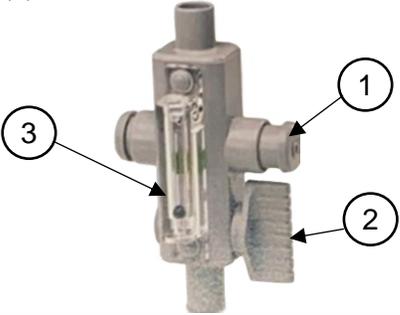
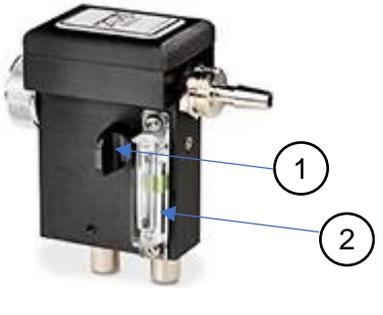
1	Attach one end of the larger diameter Fresh Gas and Vacuum Hose (1) to the larger diameter of the H-Union of the Silhouette Disposable Circuit (2).	
2	Attach the other end the larger diameter Fresh Gas and Vacuum Hose to the MASK port (labeled on body) of the AVS (3)	
3	Attach a second vacuum hose (4) to the VAC port (labeled on body) of the AVS (5)	
4	Attach the other end of the vacuum hose (4) to the vacuum source. Note: Additional parts may be needed in order to connect to a vacuum source.	

2. Connecting the Conscious Sedation Flowmeter

1	Attach one end of the smaller diameter Fresh Gas and Vacuum Reusable Hose (1) to the smaller diameter of the H-Union of the Silhouette Disposable Circuit (2).	
2	Attach the other end of the smaller diameter Fresh Gas and Vacuum Hose to the Canula Adapter (3) and attach the Canula Adapter to the Breathing Circuit Port of the flowmeter.	
3	When using a Flowmeter that has a Bag Tee, The Breathing Bag Port of the Bag Tee must be capped off using the Bag Tee Cap (4).	

3. Operating Instructions

	Porter In-Line Vacuum Control	AVS Automatic Vacuum Switch	Matrx Scavenger Control Valve
1	To adjust vacuum flow the Silhouette Breathing Circuit must be fully installed and the luer lock cap on H-union must be temporarily removed.		
2	The In-Line Vacuum Control is manually operated and must be opened by pushing the “on/off” toggle (1) to “on” position.	The AVS will automatically open upon the delivery of 1.5 to 3.5 L/min of gas flow. Start with the flow control knob (1) in horizontal position.	The Scavenger Control Valve is manually operated and must be opened by turning the flow control knob (1).

3	<p>Ensure the device is held in a vertical position. Adjust the vacuum flow using vacuum control knob (2) and sight glass (3).</p> 	<p>Adjust vacuum flow by using the vacuum control knob (1) and sight glass (2)</p> 	<p>Adjust vacuum flow by using vacuum control knob (1) and pressure gauge (2) on front of vacuum control block to monitor and control vacuum.</p> 
4	<p>Set the vacuum control knob to the desired level of vacuum flow. The Highest vacuum flow is vertical position. The lowest vacuum flow is horizontal position.</p> <p>Note: The recommended vacuum flow is when the ball float is within the green band on the sight glass.</p>	<p>Set the vacuum control knob to the desired level of vacuum flow. The Highest vacuum flow is horizontal position. The lowest vacuum flow is vertical position.</p> <p>Note: The recommended vacuum flow is when the ball float is within the green band on the sight glass.</p>	<p>Turn the vacuum control knob until the pressure gauge is set to -5 in.Hg minimum.</p> <p>Note: The recommended vacuum flow is when the pressure gauge is within the green band. Low vacuum flow is indicated by the red band.</p>
5	<p>During use of conscious sedation use the vacuum control knob and sight glass to monitor and control vacuum.</p>	<p>During use of conscious sedation use the vacuum control knob and sight glass to monitor and control vacuum.</p>	<p>During use of conscious sedation use the vacuum control knob and pressure gauge to monitor and control vacuum.</p>
6	<p>Return the luer cap to its original position on the H-union. Failure to do so could result in ineffective scavenging.</p>		

4. Cleaning

Manual Cleaning Only (Not Sterilizable)

Reusable devices listed below require manual cleaning only. Cleaning of the device has been validated with Super Sani-Cloth™ Germicidal wipes.

- Vacuum Controllers

Using a Super Sani-Cloth™ Germicidal wipe, thoroughly wipe down the Vacuum Controller until all visible dirt and soil is removed. Take extra care to wipe the outside of the connection port area and vacuum control knob as these are the most handled areas of the device. A soft bristled brush may be used to loosen any soil that is difficult to remove.

5. Safety Information



WARNING: This product can expose you to chemicals, including lead and formaldehyde, which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



WARNING: Do not use this device for the administration of general anesthesia or as part of, or in conjunction with, a general anesthesia administration system.



WARNING: Workers exposed to excessive N₂O may suffer harmful effects. The healthcare professional is responsible for employing proper techniques, such as scavenging, room ventilation, system maintenance, and patient compliance to reduce exposure. (ACGIH recommends a Threshold Limit Value of 50 parts per million over an 8-hour time-weighted average).

-  **WARNING:** Always use clean, dry, medical grade gases and never oil or grease any part of the device.
-  **WARNING:** The user should observe the patient to prevent over sedation in the event of an O₂ failsafe malfunction or a crossed lines situation. If a patient becomes overly sedated when being delivered 100% O₂, immediately remove the mask and encourage mouth breathing. This is an indication of a failsafe malfunction or crossed lines. In this case, only deliver pure O₂ from an independent source.
-  **WARNING:** Do not use Isopropyl Alcohol; use of Isopropyl Alcohol to clean or disinfect may damage device.
-  **WARNING:** Do not modify this equipment without authorization of the manufacturer
-  **WARNING:** Do not use or replace any components or accessories, except those specified in these instructions for use and installation guide.

6. Representation

	Legal Manufacturer	Parker Hannifin Corporation Precision Fluidics Division 245 Township Line Road Hatfield, PA 19440 USA Office: (215) 723-4000
	European Communities Authorized Representative	EMERGO Europe Westervoortsedijk 60 6827 AT Arnhem, The Netherlands Tel: +31 70 345 8570
	Conformité Européenne (CE) Mark	Compliance with conformity assessment on quality management system and technical documentation per Regulations (EU) 2017/745 for Medical Device, Annex IX Chapters I & III
	Switzerland Authorized Representative	Medenvoy Gotthardstrasse 28 6302 Zug Switzerland +41 41 562 01 42



Visit our website: <https://www.porterinstrument.com/> for additional information. To download Full Instructions for Use: visit <https://www.porterinstrument.com/dental-support> Choose "Flowmeters" from the dropdown within the "Product Download" section.

Refer to the following full instructions for use for complete instructions and safety information.

- 10489600 – MatrX Breathing Circuit Instructions for Use and Installation Guide
- FM-809 - Porter Breathing Circuit Instructions for Use and Installation Guide
- FM-1500 – Silhouette Breathing Circuit, Second Generation Instructions for Use and Installation Guide
- FM-1497 – Automatic Vacuum Switch Instructions for Use and Installation Guide



Rx Only