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Operating Instructions

Vivawell Vac96

Vacuum Manifold for use with
Vivawell Vac8-strip purification strips



85030-532-68

Vivawell Vac96

Introduction

The Vivawell Vac96 Vacuum Manifold is design for use exclusively with Vivawell Vac8-Strip modular purification plates. It allows rapid filtration/washing of small samples in a multiwell format.

Additional equipment required:

Vacuum pump or vacuum source capable of applying vacuum at 10" Hg or higher
Vivawell Vac96 liquid trap or other liquid trap to protect vacuum source from carry-over of liquid, or to collect large wash volumes.

Assembling Vacuum Manifold

(Refer to diagramm on page 5)

1. Fit the quick release vacuum fitting to the Manifold base and hand tighten with the catch lever uppermost.
2. Connect the control valve tubing to the Vacuum Manifold via the quick release fitting.
3. A liquid trap such as the Vivawell Vac96 liquid trap, should be placed in the vacuum line between the vaccuum pump and the control valve to prevent contamination of the pump by liquid carry-over.

Note

Allow sufficient bench space when setting up your vacuum manifold to avoid crimping the PVC tubing, which would restrict airflow.

Specification

Order Number	VW96VAC01
Manifold assembly	1
Quick release vacuum fitting	1
Control valve	1
Vacuum Tubing	1 m
Hose barb fitting	1
Materials of construction	
Manifold Base + Adaptor ring	Acetal
Manifold Top Plate	Anodised Aluminium
O-ring	Silicone
Quick release vacuum fitting	Acetal
Manifold dimensions (w × d × h)	144 × 102 × 71 mm

Operating Instructions

Manifold Operation

For application specific information, please refer to the operation instructions accompanying your Vivawell Vac8-strips.

1. If you intend to analyse the flow through volumes from the volumes from the Vivawell Vac8-strip, place a deep-well collection plate in the Vacuum Manifold base before fitting the Manifold top. The Manifold base accepts 2 ml collection plates as standard, but if using 1 ml collection plates, the adaptor should be used.

Note

If you plan to use large wash volumes that do not need to be collected, do not use a collection plate.

2. After making sure that the silicone gasket is firmly fitted to the under-side of the plate, place your Vivawell Vac8-strip onto the Manifold top. The silicone gasket should align with the Manifold holes.
3. Set the Control valve to the Vent position, switch on pump and regulate vacuum to the setting recommended in the operating instructions accompanying your Vivawell Vac8-strip model. The Vacuum Reservoir (or liquid trap) will evacuate, building up vacuum pressure.
4. Load sample volume in to the Vivawell Vac8-strip wells.

5. Set the Control valve to the Run position. You should see the Vivawell Vac8-strips bed-down as the vacuum achieves a seal.

Note

If a seal is not achieved by vacuum alone, check the alignment of the silicone gasket with the Manifold holes. If necessary, press gently and evenly on the Vivawell Vac8-strips.

6. Apply vacuum for the time recommended in the Vivawell Vac8-strip operating instructions.
7. Once all the liquid has passed through the membrane in the Vivawell Vac8-strip wells, set the Control valve to vent and wait 3-5 sec for vacuum to release before removing Manifold Top to access the collection plate.
8. Continue with the next step in your application, according to the Vivawell Vac8-strip operating instructions.

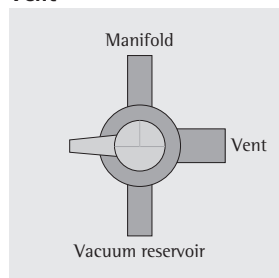
Note

The Vivawell Vac8-strip can remain located on the Manifold Top Plate between steps.

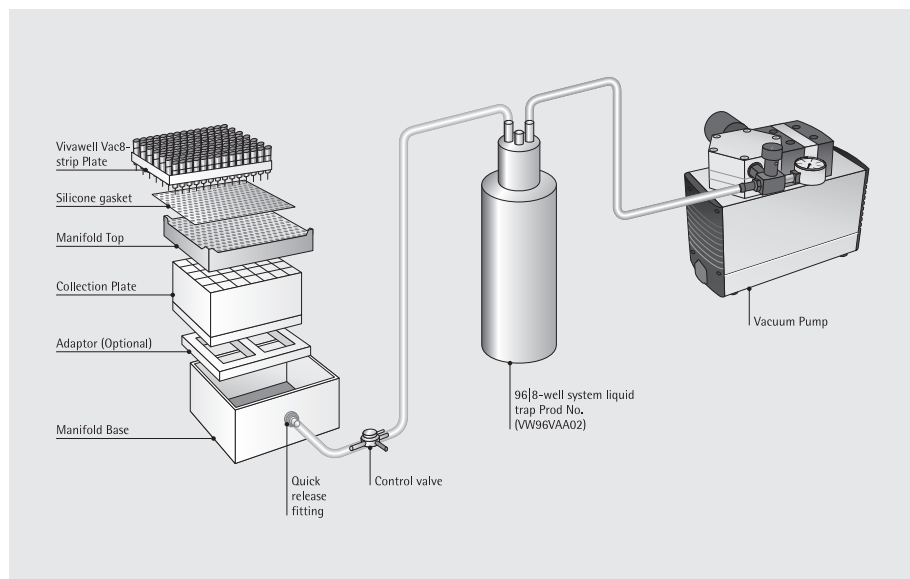
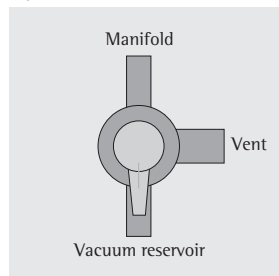
Cleaning and Maintenance

- The Vivawell Vac96 Vacuum Manifold should not be autoclaved. It should be cleaned with mild detergent solutions only.
- The Manifold Base seal should be inspected for cuts or abrasions before every use and replaced when showing signs of wear.

Vent



Run



Related products

Ordering Information	Description	Pack Size
Vivawell Vac96		
VW96VAC01	Vivawell Vac96 Vacuum Manifold	1
VW96VAA02	Vivawell Vac96 liquid trap and reservoir	1
VW96VAA03	96 deep well collection plate 1 ml (square wells)	25
VW96VAA04	96 deep well collection plate 2 ml (square wells)	25
VW96VAA05	Replacement seal for Vivawell Vac96 Vacuum Manifold	1
Vivawell Vac8		
VW08VAC01	Vivawell Vac8 Vacuum Manifold	1
VW08VAA02	Vivawell Vac8 liquid trap and reservoir	1
VW08VAA03	8 well collection strips 1.2 ml (round wells)	125
VW08VAA04	Replacement seal for Vivawell Vac8 Vacuum Manifold	1
Viavawell Vac8-strip IEX		
VW08IQ02V	Vivawell Vac8-strip Q-IEX purification strips	24
VW08IS02V	Vivawell Vac8-strip S-IEX purification strips	24

Sartorius Stedim Biotech GmbH
August-Spindler-Strasse 11
37079 Goettingen, Germany

Phone +49.551.308.0
Fax +49.551.308.32 89
www.sartorius-stedim.com

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