



Photo shows a complete system

Vacuum Filtration Station

Model 22.050

Manual

KC Denmark A/S

Research Equipment
Limnology • Oceanography • Hydrobiology

Vacuum Filtration Station – 6 x 500 ml



Caution

KC Denmark A/S is not, and cannot be held, responsible for any damage(s) made to equipment or to operators who ignore safety precautions or because of misuse or wrong operation.

It is very important that there is an excess fluid chamber between the pump and the filtration plant. If not, the pump will be filled with liquid and destroyed.

Vacuum filtration is used primarily in microbiological and laboratory procedures involving the collection of a particulate (bacteria, precipitate, etc.) from a liquid suspension. Liquid poured into a funnel passes through a filter, which retains the particulate.

Item	Description	
1	<p>Install the vacuum pump close to the system and ensure you have a proper ground connection for the pump's power supply. If preferable you may extend the tubing for the vacuum pump. Please refer to the pumps manual for more details and maintenance of the pump itself.</p>	
2	<p>Top of the excess fluid chamber:</p> <ul style="list-style-type: none"> A: Connect to vacuum pump B: Connect to filtration unit C: Air valve D: Manometer showing the vacuum 	

3	<p>It is very important that the excess fluid chamber between the pump and the filtration is empty. If not, the pump is filled with liquid and is damaged. During use of the system, check regularly if the chamber must be emptied.</p> <p>Emptying the chamber:</p> <ol style="list-style-type: none"> 1. Open the air valve C (see item 2) on top of the chamber 2. Open the valve at bottom of the chamber 3. Once empty, close both valves 	
4	<p>Connect the filtration unit, the vacuum pump and the chamber using appropriate vacuum hoses.</p>	
5	<p>Insert the support screen as shown to the left. Add the Ø47 mm filter paper (right).</p> <p>Turn the valves into horizontal position to (closed).</p>	
6	<p>Place the chambers on top (left).</p> <p>An optional number of chambers can be added. Close the valve for the unused devices.</p> <p>Using the valve beneath the chamber, you can reduce or turn off the vacuum individually for every sample tube.</p>	
7	<p>Do not use alcohol, as it will damage the bottles.</p> <p>Pour the liquid to be filtrated into the upper bottles. Start the vacuum pump and open the required valves as per item 6.</p>	
8	<p>Once the separation has finished, turn off the vacuum pump and close the valves.</p>	

9	Remove the bottles and the filter paper for closer examination.	
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Maintenance		
10	<p style="color: red;">Do not use alcohol for cleaning, as it will damage the bottles.</p> <p>Wash the bottles with fresh water and mild soap and let dry before mounting on the rack.</p> <p>Disassemble the filter holders, clean and let dry.</p>	

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