

# Vacuum Filtration Station

## Model 22.020

### 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 to empty the excess fluid chamber regularly. If not, the pump will be filled with liquid and damaged.**

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	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.	
2	Top of the excess fluid chamber: <ul data-bbox="240 1585 803 1684" style="list-style-type: none"><li>• Stub for connecting the vacuum pump</li><li>• The valve is shown in open position</li><li>• Manometer showing the vacuum</li></ul>	

3	<p>It is very important to empty the excess fluid chamber regularly. If not, the pump will be filled with liquid and damaged.</p> <ol style="list-style-type: none"> <li>1. Open the valve (item 2)</li> <li>2. Remove the 6 chambers</li> <li>3. Loosen the screws to equalize the vacuum</li> <li>4. Remove the top and pour out the liquid</li> <li>5. Reassemble in the opposite way</li> </ol>	
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Using the vacuum filtration		
4	Connect the filtration unit and the vacuum pump using an appropriate vacuum hose.	
5	<p>Standard delivery comes with a standard Sartorius support screen (6980232); on the photo, the left item shows a stainless steel item (optional).</p> <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 and the chamber for excess fluid.</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	Once the separation has finished, turn off the vacuum pump and close the valves.	
9	Remove the bottles and the filter paper for closer examination.	

<b>Maintenance</b>		
10	<p><b>Do not use alcohol for cleaning, as it will damage the bottles and the chamber for excess fluid.</b></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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