INTRODUCTION
Information on this sheet must be read before the use of this device to ensure safe and effective operation.

Sterility: The device is sterilized by ethylene oxide.
Recommendation Storage: Between 5 and 35°C (41 and 95°F).

INDICATIONS
Description: The Nephros DSU-H is a disposable in-line water ultrafilter used to filter EPA quality drinking water. The filter retains bacteria, viruses and endotoxin. By providing ultrapure water for washing and drinking, the filters aid in infection control. The filter produces water that is suitable for wound cleansing, cleaning of equipment used in medical procedures and washing of surgeon’s hands.

Single Use: The device is intended for single use. Once installed the filter is intended to be used for up to 6 months. After such time the unit should be replaced and discarded. Do not attempt to sanitize or re-sterilize it.

CONTRAINDICATIONS
Medical: The filter is not intended to provide water that can be used as a substitute for USP sterile water.
Chemical: The DSU-H retains biological contaminants. To obtain chemically pure water it is necessary to use the filter in conjunction with other devices such as DI beds or RO systems.

WARNINGS & PRECAUTIONS
Pressure & Temperature: The DSU-H is designed for a maximum incoming water pressure of 100 psi (6.8 bar) and a maximum incoming temperature of 60°C (140°F).

Cyclic Use: The DSU-H is intended for a maximum of 10,000 on/off cycles in in-line use and 1000 cycles in open discharge use.
Replacement: The filter should be replaced when the flow rate begins to noticeably decrease. It is recommended that one establish a maintenance schedule of replacing the filter at least every 6 months dependent on water quality.

Water Monitoring: After installation of the DSU-H, periodic monitoring of the water is recommended.

INSTALLATION & REMOVAL
Note: If it is the first time a DSU-H is installed in a location, please refer to one of the DSU-H Installation Guide. Prior to handling a new filter it is recommended that one wash their hands and wear disposable gloves.

- Open a new filter blister pack and remove the port caps.
- Mark the label with the installation date.
- If installing the threaded version of the filter, turn off the water supply valve. For the quick connect version it is not necessary to turn off the water valves before disconnecting the filter as the female quick connectors have internal shut off valves.
- Disconnect the inlet side of the used filter followed by the outlet.
- Seal the used filter ports with the caps to minimize water leakage.
- Remove the used filter from its mounting clamps and discard appropriately.
- Place the new filter in the clamps making sure the flow direction arrows point towards the water outlet.
- Connect the outlet water line to the filter followed by the inlet line using the quick connectors.

Note: Prolonged exposure of the filter to alkyl dimethyl benzyl ammonium chloride (ADBAC) may result in cracks to the external housing. It is recommended not to use ADBAC based cleaners.

OPERATION
After a new DSU-H is installed, water should be run through the filter for approximately 1 minute to purge it of trapped air. The pressure drop across the DSU-H generally reduces the flow rate by about ½ to ⅓ of the rate without a filter. The filter should operate for up to 6 months of normal use with minimal degradation in flow. If the flow rate degrades significantly, the filter should be replaced.

SAFETY
The DSU-H has a unique double ultrafiltration design such that all the filtration occurs in the front section of the filter while the back section serves as a redundant safety filter. During the course of operation the front section of the filter is likely to become fouled with particulate from the incoming water while the back section remains clean. In the unlikely event there is a small breach in the first filter stage, water is still completely filtered by the second (redundant) filter stage.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Nephros DSU-H</th>
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<tbody>
<tr>
<td>Sterilization Method</td>
<td>Ethylene Oxide</td>
</tr>
<tr>
<td>Max Inlet Pressure</td>
<td>100 psi (6.8 bar)</td>
</tr>
<tr>
<td>Max Inlet Temperature</td>
<td>60°C (140°F)</td>
</tr>
<tr>
<td>Max # On/Off Cycles</td>
<td>10,000</td>
</tr>
<tr>
<td>In-Line Use</td>
<td>1,000</td>
</tr>
<tr>
<td>Open Discharge</td>
<td>1,000</td>
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<tr>
<td>Filter Membrane</td>
<td>Medisulfone®</td>
</tr>
<tr>
<td>Material</td>
<td>Polysulfone</td>
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<tr>
<td>MW cut-off</td>
<td>15 kDa</td>
</tr>
<tr>
<td>Bacterial Retention</td>
<td>&gt; 10¹¹ (B. diminuta)</td>
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<tr>
<td>Virus Retention</td>
<td>&gt;10⁸ (PhiX-174)</td>
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<tr>
<td>Endotoxin Retention</td>
<td>&gt; 10³ EU/ml</td>
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<tr>
<td>Expected Life</td>
<td>up to 6 months</td>
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Medisulfone® is a registered trademark of Medica S.p.A.

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