Performance
Aquasart® Plus XL filter cartridges incorporate a special double layer membrane. This new combination, coarse membrane followed by a final membrane, has been developed to meet the demanding process requirements in terms of highest total throughput performance in the Aquasart family. Aquasart® Plus XL achieves maximum service life performance and minimizes filtration costs.

Quality
Aquasart® Plus XL membrane filters are designed and manufactured according to an ISO 9001 certified quality management system. All raw materials which are used to produce Aquasart® Plus XL are in accordance with EU regulation 1935/2004/EC or are listed in the Regulations (EU) No. 10/2011 relating to plastic materials and article intended to come into contact with food. All used materials meet FDA requirements.

Safety
Aquasart® Plus XL filter cartridges guarantee highest microbiological safety, which can be checked before and after every use with an integrity test (>7 LRV for B. diminuta).
Compatibility
Aquasart® Plus XL filter cartridges fulfill all requirements of the current USP for “Sterile Water for Injection”. This includes testing for Toxicity according to USP Plastic Class VI Test.

Aquasart® Plus XL filter cartridges are fully suitable for use in the food & beverage industry with pH-compatibility: pH 1 to pH 14.

Applications
Aquasart® Plus XL membrane filter cartridges are used for final filtration prior to bottling for products, such as the following:
- Non-carbonated water
- Near-water beverages

Technical Data

| Available Sizes | Filtration Area | Max. Diffusion at 1.5 bar | 22 psi [ml/min] | Min. Bubble Point [bar | psi] |
|----------------|----------------|--------------------------|-----------------|-------------------|
| Cartridges     |                |                          |                 |                   |
| Size 2         | 1.6 m² | 17.2 ft² | 50               | 2.8 | 40.5           |
| Size 3         | 2.4 m² | 25.8 ft² | 75               | 2.8 | 40.5           |

Max. Allowable Differential Pressure

<table>
<thead>
<tr>
<th>Cartridges</th>
<th>Max. Allowable Back Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 bar</td>
<td>72.5 psi at 20°C</td>
</tr>
<tr>
<td>2 bar</td>
<td>29 psi at 80°C</td>
</tr>
</tbody>
</table>

Max. Operating Pressure

<table>
<thead>
<tr>
<th>Cartridges</th>
<th>Max. Operating Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 bar</td>
<td>72.5 psi at 20°C</td>
</tr>
</tbody>
</table>

Materials

<table>
<thead>
<tr>
<th>Prefilter Membrane</th>
<th>Endfilter Membrane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethersulfone, asymmetric</td>
<td>Polyethersulfone, asymmetric</td>
</tr>
</tbody>
</table>

Support Fleece
Polypropylene
(In-Line Steam sterilizable & autoclavable)

Polyester
(y-irradiatable or y-irradiatable | autoclavable)
Sterilization

Cartridges

In-Line Steam Sterilization
121 °C, 0.3 bar, 20 min.
Min. 25 Sterilization Cycles
or
Autoclaving
121 °C, 2 bar, 30 min
Min. 25 Sterilization Cycles

Technical References

Validation Guide 2552028-000

Performance

Water Flow Rates for Aquasart® Plus XL
20” & 30” cartridges

Ordering Information

Adapter
25: 2 Flange Bayonet adapter with 226 double o-ring
28: 3 Flange Bayonet adapter with 222 double o-ring
Filter Size
2: 1.6 m² | 17.2 ft² (20”)
3: 2.4 m² | 25.8 ft² (30”)

Regulatory Compliance

- Each individual element is tested for integrity by Diffusion test
- Fully validated as sterilizing grade filters according to ASTM current F-838-05 guidelines
- Designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System
- Meet or exceed the requirements for WFI quality standards set by the current USP
- Non pyrogenic according to USP Bacterial Endotoxins
- USP Plastic Class VI Test
- Non fiber releasing according to Code of Federal Regulations (CFR), section 210.3(b)(6) and 211.72
- Material used meet FDA requirements and fulfill EU regulation 1935/2004/EC, Regulations (EU) No. 10/2011 relating to plastic materials and article intended to come into contact with food.
Sales and Service Contacts

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