Keep your quality under control!

Airmonitoring with MD8 Airscan and Gelatine Membrane Filters (GMF)

Marcus Schütte
Product Manager Lab Filtration & Microbiology
Agenda

**Advantages of the MD8 airscan**

- Gelatine Membrane Filters (GMF)
- Remote Control
- Integration of MD8 in Filling Lines/Isolators
- Scheme of multi sampling and accessories
- List of spare parts for MD8 airscan
Advantages of the MD8 airscan

Short sampling time; 1 qm of air can be sampled in 8 minutes

Isokinetic sampling in laminar-flow areas (no generation of turbulence)

Airflow can be calibrated with calibration unit

Automatic adjustment of airflow
Advantages of the MD8 airscan

Programmable

Outlet for outgoing air

Suitable for use in most critical areas, class A/B clean rooms (filling lines), BFS machines and isolators because the MD8 airscan can be positioned outside the critical work area.

Qualification documents and Service available (IQ/OQ)
Agenda

Advantages of the MD8 airscan

**Gelatine Membrane Filters (GMF)**

Remote Control

Integration of MD8 in Filling Lines/Isolators

Scheme of multi sampling and accessories

List of spare parts for MD8 airscan
Gelatine Membrane Filters (GMF)

Filtration method

Highest Retention of microbes and viruses

Soluble in sodiumchloride for dilution and flushing out of inhibitory substances

High humidity for keeping microbes alive

Continuous airsampling possible
Gelatine Membrane Filters (GMF)

- Gamma irradiated Filters
- Gas tight packaging
- Single packaged and triple packaged Filters available for introduction in cleanrooms
Agenda

Advantages of the MD8 airscan

Gelatine Membrane Filters (GMF)

**Remote Control**

Integration of MD8 in Filling Lines/Isolators

Scheme of multi sampling and accessories

List of spare parts for MD8 airscan
Remote Control

Enables automatic airsampling in combination with the MD8 airscan at different locations (SPS/PLC; Computer)
Agenda

Advantages of the MD8 airscan

Gelatine Membrane Filters (GMF)

Remote Control

Integration of MD8 in Filling Lines/Isolators

Scheme of multi sampling and accessories

List of spare parts for MD8 airscan
Valves and piping system

MD8 airscan and remote control interfaces in the grey area.
Air Multi-Sampling Ampoule Filling Line

Air Monitoring Spots
Filling Line

Sampling head (S) for attachment of gelatin membrane filter (GMF) located in class A

MD8 airscan (A), remote control interfaces (B) and valves (C) for multisampling
Agenda

Advantages of the MD8 airscan

Gelatine Membrane Filters (GMF)

Remote Control

Integration of MD8 in Filling Lines/Isolators

Scheme of multi sampling and accessories

List of spare parts for MD8 airscan
Airsampling with MD8, GMF and remote control

Clean room grade A (class 100)

Filling line

Gelatine filter installed on filter holder 17801 at the point of fill

Valve 1

Valve 2

Valve 3

Valve 4

Barrier

Clean room grade C/D (10,000 / 100,000)

MD 8 airscan

Remote-Control 1ZE---0003

Siemens PLC-unit
Installation MD8 | Isolator

- Gelatine Membrane Filter Disposable 17528
- Adapter 17801---001
- Stainless Steel Connector TC 25 ; 17659---003
- Sartofluor Capsule 5185307T9--SS--A
- Wall of Isolator
  - each flange to flange connection requires a stainless steel holding clamp 17033
- Stainless Steel 90 degrees elbow Connector TC 50,5 to Capsule and TC 25 to adapter 17026
- Hose 17085 | 17088 (PVC) or 17662 (Silicone)
- Adapter 17658
- MD8 airscan
Agenda

Advantages of the MD8 airscan

Gelatine Membrane Filters (GMF)

Remote Control

Integration of MD8 in Filling Lines/Isolators

Scheme of multi sampling and accessories

List of spare parts for MD8 airscan
List of spare parts for MD8 airscan

<table>
<thead>
<tr>
<th>Spare Part</th>
<th>Qty</th>
<th>Bezeichnung</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>69898527</td>
<td>1</td>
<td>Rückplatte für Akkufach</td>
<td>plate</td>
</tr>
<tr>
<td>69898518</td>
<td>1</td>
<td>Verdichtereinheit</td>
<td>compressor unit</td>
</tr>
<tr>
<td>69898528</td>
<td>1</td>
<td>Motor für Verdichtereinheit</td>
<td>Motor for compressor unit</td>
</tr>
<tr>
<td>69898524</td>
<td>1</td>
<td>Dichtung 23mm</td>
<td>sealing 23mm</td>
</tr>
<tr>
<td>69898517</td>
<td>1</td>
<td>Akku kompl.</td>
<td>Rechargeable battery</td>
</tr>
<tr>
<td>69898519</td>
<td>1</td>
<td>Systemsteuerung mit Anzeige</td>
<td>System control with display</td>
</tr>
<tr>
<td>69898520</td>
<td>1</td>
<td>Ladeschaltung</td>
<td>Recharging PCB</td>
</tr>
<tr>
<td>69898526</td>
<td>1</td>
<td>Dichtung 82mm</td>
<td>sealing 82mm</td>
</tr>
<tr>
<td>69898521</td>
<td>1</td>
<td>Gehäuseoberteil</td>
<td>housing upper part</td>
</tr>
<tr>
<td>69898523</td>
<td>1</td>
<td>Tastaturfolie</td>
<td>keyboard foil</td>
</tr>
<tr>
<td>69898522</td>
<td>1</td>
<td>Gehäuseunterteil</td>
<td>housing bottom</td>
</tr>
<tr>
<td>17801</td>
<td>1</td>
<td>Filterhalter</td>
<td>Filter-holder</td>
</tr>
<tr>
<td>69898525</td>
<td>1</td>
<td>Netzgerät für Sartorius Airport</td>
<td>Connector power supply Sartorius Airport</td>
</tr>
</tbody>
</table>