Safety Information

Please read this entire document before unpacking, setting up, or operating this equipment. Pay attention to all danger and caution statements. Failure to do so could result in serious injury to the operator or damage to the equipment.

To ensure that the protection provided by this equipment is not impaired, do not use or install this equipment in any manner other than that specified in this document.

Use of Hazard Information

DANGER
Indicates a potentially or imminently hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION
Indicates a potentially hazardous situation that may result in minor or moderate injury.

Important Note: Information that requires special emphasis.

Note: Information that supplements points in the main text.

Precautionary Labels
Read all labels and tags attached to the instrument. Personal injury or damage to the instrument could occur if not observed. A symbol, if noted on the instrument, will be included with a danger or caution statement in the manual.

Introduction

These installation instructions describe the installation and use of the cleaning set LZY367 (Figure 1).

Selecting the installation location

Note: Refer to the operating instructions for the analyzer and the Filter Probe sc for specific installation location requirements.

Note: When selecting the installation location, ensure the tray and the Filter Probe sc are securely mounted and that chemicals cannot leak.

During the selection of the installation location, pay attention to:

• Ease of access to the enclosure door for the analysis instrument
• The maximum cable and tubing lengths
• Ease of access to the display module
Cleaning set for the Filter Probe sc

Installing the cleaning set

**DANGER**

*To avoid the formation of chlorine gas, do not use 3% chlorine bleach together with 5% hydrochloric acid. Do not allow chlorine bleach to be mixed with or come in contact with other chemicals. Refer to the MSDS for safe handling, storage and disposal requirements for all chemicals.*

1. Remove the Filter Probe sc from the tank; refer to the installation instructions in the Filter Probe sc user manual for more information.

2. Place the Filter Probe sc in the tray provided.

3. Remove the filter elements (Figure 1) and store them so they remain moist.

4. Use either 3% chlorine bleach (e.g., LCW811, diluted 1:3 with water) or 5% hydrochloric acid as the cleaning solution.

5. Fill a container with cleaning solution and place the container near the Filter Probe sc.

6. Fit the O-rings (Figure 2 on page 3). Grease the O-rings lightly and connect the cleaning adapters in place of the filter elements (Figure 3 on page 3).

Hang the ends of the tubes on the cleaning adapters in the container with the cleaning solution (Figure 4 on page 4).

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**Figure 1 Items supplied with the cleaning unit LZY367**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>O-ring, 7.5 x 2.5 NBR (2x)</td>
</tr>
<tr>
<td>2</td>
<td>Cleaning adapter for Filter Probe sc (2x)</td>
</tr>
<tr>
<td>3</td>
<td>Tubing, 4 x 1, 0.7 m (2x)</td>
</tr>
<tr>
<td>4</td>
<td>Disposable syringe (20 mL)</td>
</tr>
<tr>
<td>5</td>
<td>PharMed tubing</td>
</tr>
<tr>
<td>6</td>
<td>Tubing 2 m long, 3.2 x 0.8 (LZY195)</td>
</tr>
<tr>
<td>7</td>
<td>Set of fittings, 3.2 mm (LZY111), tapered insert (2x) and union nut (2x)</td>
</tr>
<tr>
<td>8</td>
<td>Blind plug, LZY193 (2x)</td>
</tr>
</tbody>
</table>
Cleaning set for the Filter Probe sc

Figure 2 Removing the filter elements

Figure 3 Fitting cleaning adapters
Cleaning set for the Filter Probe sc

Figure 4 Installation overview
Cleaning the Filter Probe sc

1. Ensure all steps in section Installing the cleaning set on page 2 have been performed.

2. Open the Main menu on the analyzer.

3. Select Maintenance>Test/Maint>Prepumping>Prepumping Probe and trigger a pump cycle.

4. Wait until the pump cycle is complete.

   *Note: Make sure the tubes are not drained.*

5. Hang the ends of the tubes on the cleaning adapters in a container filled with clean water and trigger a second pump cycle.

6. Wait until the pump cycle is complete.

7. Remove the cleaning adapters and fit the filters (Figure 5 on page 5).

8. Replace the Filter Probe sc in the tank; refer to the installation instructions in the Filter Probe sc user manual for more information.

Figure 5 Installing the filter elements
Cleaning the analyzer

1. Place the analysis instrument in the service state:
   a. Open the Main menu on the analyzer.
   b. Select Maintenance>Test/Maint>Service Mode and press START.
2. Assemble the cleaning set as shown in Figure 6 on page 6.
3. Remove the tube connection on the overflow vessel at the bottom right and replace with the blind plug (Figure 7 on page 7).
4. Fill the syringe with cleaning solution.
5. Remove the sample feed tube for the Filter Probe sc on the bottom of the overflow vessel and fit the tube connection for the cleaning set (Figure 7 on page 7).
6. Inject cleaning solution into the overflow vessel until it is completely full.
   
   **Note:** Do not over-fill the overflow vessel, or the cleaning solution may leak through the outlet.
7. After 5 minutes, drain the cleaning solution and dispose of properly. Refer to the MSDS for disposal instructions.
8. Rinse the syringe and the overflow vessel with clean water.
9. Replace all tubes and tube connections.
10. Open the Maintenance menu level by pressing the BACK ARROW.
11. The message SERV. HOLD MODE? will appear on the display. Select NO/MEASURE START.

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**Figure 6 Cleaning set assembled**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Disposable syringe (20 mL)</td>
</tr>
<tr>
<td>2</td>
<td>PharMed tubing</td>
</tr>
<tr>
<td>3</td>
<td>Tubing (2 m long, 3.2 x 0.8), LZY195</td>
</tr>
<tr>
<td>4</td>
<td>Union nut from fittings set, LZY111</td>
</tr>
<tr>
<td>5</td>
<td>Tapered insert from set of fittings, LZY111</td>
</tr>
</tbody>
</table>
Spare parts and accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tubing (2 m long, 3.2 x 0.8)</td>
<td>1</td>
<td>LZY195</td>
</tr>
<tr>
<td>Blind plug</td>
<td>2</td>
<td>LZY193</td>
</tr>
<tr>
<td>Fittings (3.2 mm)</td>
<td>4 (1 set)</td>
<td>LZY111</td>
</tr>
</tbody>
</table>

Figure 7 Fitting the blind plug and the cleaning set