User Guide

Laerdal
Upright Resuscitator

REUSABLE - AUTOCLAVABLE

Intended Use
Laerdal Upright Resuscitator (“Upright”) is a self-inflating, manual, reusable resuscitator intended for newborns and infants up to 10 kg body mass who require respiratory support.

Upright can provide supplemental oxygen only when used with the accessory Oxygen Kit.

Upright may be reused provided reprocessing procedures (page 2) are followed between each patient use. It must be cleaned and disinfected before first use.

Using Upright
Orientation: Upright is operated as a normal resuscitator, with the bag having a vertical stance over the mask.

Newborn Mask - Snap design: The mask fits with standard 15 mm inner-diameter conical connectors, as defined by ISO 5356-1. Check fit before use with other devices. When used with Upright, the mask attaches with a snap fit when pressed completely into place.

Press release valve: Upright has a press release valve (“pop-off”) which limits the airway pressure to 30-45 cmH₂O. A hissing sound can be heard when the valve opens. If higher airway pressure is needed, press downwards on the valve with the index finger while squeezing the bag.

Vomitus: If the patient valve becomes contaminated with vomitus, clear the valve by shaking Upright and forcefully squeezing the bag to expel the vomitus. If it does not clear, disassemble the patient valve (see page 2), rinse it in water and then reassemble it.

If any components are loose, tighten or reassemble the device and test in accordance with page 2.

Warnings

Upright should only be used by persons who have received sufficient training in its use. Incorrect operation of the Upright can be hazardous.

Do not use the Upright if you have any reason to be concerned about its functionality.

For proper function, ensure that Upright components are not mixed and confused with similar-looking non-Laerdal components. All Upright components are marked LAERDAL, as shown on page 2.

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Reprocessing instructions

1. Product overview

To dismantle, follow steps 1-6. To reassemble, follow the steps in reverse.

![Diagram of the Upright Resuscitator]

- **1. Pull Out**
- **2. Unscrew**
- **3. Lift Out**
- **4. Pull Out and Lift Out**
- **5. Pull Out**
- **6. Unscrew**

*Validated at approximately sea-level pressure*

Do not disassemble parts beyond the steps shown. For proper function, make sure to only use parts marked LAERDAL (locations as shown above).

2. Cleaning and Disinfection procedure

<table>
<thead>
<tr>
<th>1. Dismantle</th>
<th>2. Clean</th>
<th>3. Disinfect by one of the methods</th>
<th>4. Dry and Inspect</th>
<th>5. Assemble and Test</th>
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</thead>
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<tr>
<td>![Dismantle Icon]</td>
<td>![Clean Icon]</td>
<td>![Disinfect Icon]</td>
<td>![Dry and Inspect Icon]</td>
<td>![Assemble and Test Icon]</td>
</tr>
</tbody>
</table>

- **1. Wash all parts in a clean tray with clean water and mild soap.**
- **2. Use a scrub or brush to remove any soil.**
- **3. Rinse parts in clean water to remove all soil and soap.**
- **4. Repeat above steps until parts are clean.**

**Boiling**

Boil all parts in clean water for 10 min.

**Autoclaving**

Sterilize by steam autoclaving at 136 °C and 2.0 kg/cm² for 10-20 min.

Always dismantle Upright before cleaning.

3. Testing before use

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<tr>
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<tbody>
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<td>![Lip Valve Icon]</td>
<td>![Pressure Release Valve Icon]</td>
<td>![Inlet Valve Icon]</td>
<td>![Product Sealing Icon]</td>
</tr>
</tbody>
</table>

- **1. Squeeze the bag. Check that the yellow valve opens and closes with every squeeze.**
- **2. Seal the mask against your hand. Squeeze the bag forcefully. Check that air is released from the pressure release valve.**
- **3. Keep the mask sealed against your hand. Release the squeezed bag. Check that the bag re-expands without resistance.**
- **4. Keep the mask sealed against your hand. Press the pressure release valve down. Squeeze the bag and check that there is no leakage.**

*Check that the silicone bag’s lip is not twisted or tucked under.*

If any of the above tests fail: Dismantle Upright, inspect that components, reassemble Upright and repeat the complete “Testing before use” procedure (Section 3).