User Guide

Upright with Newborn PEEP

NEWBORN BAG-MASK WITH PEEP
REUSABLE - AUTOCLAVABLE

Intended Use
Upright with Newborn PEEP is a self-inflating, manual, reusable resuscitator with PEEP valve, intended for newborns and infants up to 10 kg body mass who require respiratory support.

PEEP can be deactivated by removing the PEEP valve membrane.

Upright with Newborn PEEP can provide supplemental oxygen only when used with the accessory oxygen kit.

Upright with Newborn PEEP may be reused provided repro cessing procedures are followed between each patient use. It must be cleaned and high-level disinfected or sterilized before first use.

Caution
The patient should be constantly monitored while this product is in use.

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

Positive end-expiratory pressure (PEEP) retains a volume of air in the lungs between each ventilation. For newborns with fluid-filled or immature lungs, PEEP helps prevent repeated lung alveolar collapse during ventilation. This helps recruit lung volume more efficiently, clear fluid from the lungs and reduces damage to the lung tissue.

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

Important Product Information

Regulatory


Technical Information

Newborn Mask - Snap design, is not designed in accordance with ISO 5356-1:2015 - Anaesthetic and respiratory equipment – Conical connectors - Part 1: Cones and sockets.

User Guide

PEEP principle of operation
PEEP helps prevent repeated lung alveolar collapse during ventilation. This helps recruit lung volume more efficiently, clear fluid from the lungs and reduces damage to the lung tissue.

Important Product Information

Technical Information


Manufactured in Norway by:
Laerdal Medical AS
P.O. Box 377, Tanke Svilandsgate 30
4002 Stavanger, Norway
Tel: +47 51 51 17 00
Fax: +47 51 52 35 57

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Materials
Hard plastic components: Polysulfone (PSU)
Soft plastic components: Silicone rubber
Spring: Stainless steel
Not made with natural rubber latex.

Accessories and Spare parts

Cat. no. Description
846156 Newborn Mask - Snap design – Size 0*
846157 Newborn Mask - Snap design – Size 1*
846165 Newborn PEEP membrane and cap – 1 set
846151 Oxygen kit (Complete) includes oxygen adaptor, valve, reservoir bag and tubing
846131 Oxygen reservoir bag and tubing
846155 Upright valves and membranes kit* (lip valve, inlet valve disc membrane) * 10 pcs

Important Product Information

Operating temperature
-18 °C to 50 °C
Storage temperature
-40 °C to 60 °C
Dead space
Approximately 5 ml (water volume)
External dimensions
(With Newborn Mask size 1)
Approximately 74 mm x 87 mm x 217 mm
Mass
(With Newborn Mask size 1)
Approximately 200 g
PEEP value/Pressure range
6 ± 2 cmH2O
PEEP principle of operation
Silicone membrane valve
Total bag volume
320 ml
Deliverable tidal volume
> 150 ml
Expiratory resistance
With PEEP: < 15 cmH2O at 5 LPM
Without PEEP: < 3.5 cmH2O at 5 LPM
Inspiratory resistance
With PEEP: < 1 cmH2O at 5 LPM
Without PEEP: < 1 cmH2O at 5 LPM

Manufactured Information

Global Warranty: See www.laerdal.com

Warning
Upright with Newborn PEEP should only be used by persons trained in operating resuscitators. Incorrect operation can be hazardous.

PEEP value/Pressure range
6 ± 2 cmH2O

PEEP principle of operation
Silicone membrane valve
Upright with Newborn PEEP

1. Product Overview

To dismantle Upright with Newborn PEEP, follow steps 1-6. To reassemble, follow the steps in reverse.

1. Pull Out
2. Unscrew
3. Lift Out
4. Pull firmly on tab to release
5. Pull Out
6. Unscrew

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

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<td>1. Wash all parts in a clean tray with clean water and mild soap.</td>
<td>2. Use a scrub or brush to remove any soil.</td>
<td>3. Rinse parts in clean water to remove all soil and soap.</td>
<td>4. Repeat above steps until parts are clean.</td>
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<td>100 °C for 10 minutes OR Steam 136 °C for 10-20 minutes</td>
<td><strong>Boiling</strong></td>
<td><strong>Autoclaving</strong></td>
<td><strong>Dry all parts.</strong></td>
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<tr>
<td>Boil all parts in clean water for 10 min.</td>
<td>Sterilize by steam autoclaving at 136 °C and 2.0 kg/cm² for 10-20 min.</td>
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Always dismantle Upright with Newborn PEEP before cleaning.

1. 2.a
3
5
6

Dry all parts.

Visually inspect each part for damage, cleanliness and signs of mineral deposits. If the parts become coated in limescale immerse in equal parts of water and white vinegar (3-5%) for 10 minutes. Do NOT immerse PEEP membrane. Rinse in clean water. Repeat if necessary.

3. PEEP membrane inspection:

Hold membrane between fingers and squeeze softly. Check that slit opens fully, but not beyond rip stoppers.

4. If in doubt about PEEP membrane function or pressure, test as described in Testing PEEP valve, Page 1.

5. Discard any damaged or worn parts.

3. Testing before Use

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<td>Squeeze the bag. Check that the yellow valve opens and closes with every squeeze.</td>
<td>Seal the mask with a hand. Squeeze the bag forcefully. Check that air is released from the pressure release valve. Keep the mask sealed against hand. Release the squeezed bag. Check that the bag re-expands without resistance.</td>
<td>Keep the mask sealed against the hand. Press the pressure release valve down. Squeeze the bag and check that there is no leakage.</td>
<td>Hold Upright with Newborn PEEP firmly at the yellow neck label. Press other hand upwards against the mask’s sealing cuff so that air inside the mask is pushed into Upright and out the expiration port with the PEEP membrane. Check that the PEEP membrane slit opens and seals fully. Repeat 3 times.</td>
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If any of the above tests fail, dismantle Upright with Newborn PEEP, inspect the components, reassemble and repeat the complete “Testing Before Use” procedure (Section 3). Remove damaged parts from use.