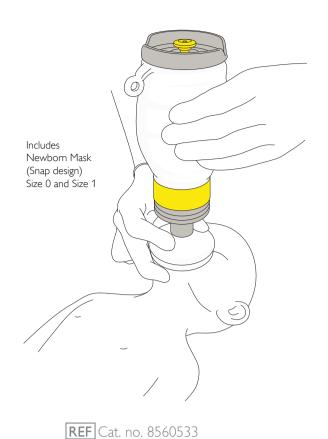


User Guide

Upright Resuscitator

Newborn Bag-Mask

REUSABLE - AUTOCLAVABLE





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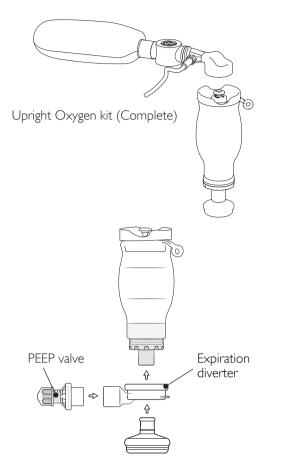
www.laerdal.com

ACCESSORIES AND SPARE PARTS

850500

Cat. no	Description
856156 856157	Newborn Mask - Snap design — Size 0* Newborn Mask - Snap design — Size 1* * 10 pcs
8561733	Oxygen kit (Complete) includes Oxygen Adaptor, Valve, Reservoir Bag and Tubing
846131	Oxygen Reservoir Bag and Tubing
856155	Upright Valves and Membranes kit* (Lip Valve, Inlet Valve Disc Membrane) * 10 pcs

Expiration diverter (OD 30 mm)



CLINICAL INDICATIONS

Device Description

The Upright Resuscutator is a self-inflating manual resuscitator that is intended for patients requiring total or intermittent ventilatory support.

Indication for Use

The Upright Resuscitator ('Upright') is intended for patients requiring total or intermittent ventilatory support. Ventilation is possible with or without supplemental oxygen.

The Upright provides positive pressure ventilation and allows spontaneous breathing with a face mask port or an artificial

Intended for patients up to 10 kg (22 lbs).

Intended Users

The Upright is intended to be used by healthcare professionals trained in delivering ventilatory support and in the use of manual resuscitators.

Clinical Benefits

Positive impact on clinical outcome, by respiratory support that reduces probability of adverse outcomes, such as morbidity and mortality caused by hypoxia.

Clinical Outcome

Desired outcome of ventilation is oxygenation of the patient, often evaluated using SpO₂, EtCO₂, blood gas analysis or other method of analysis.

Known Side Effects

Gastric Insufflation Oxygen Toxicity

Contraindications

No known contraindications for use.

IMPORTANT INFORMATION

Read this User Guide and become familiar with the operation and maintenance of the device prior to use.

/!\ Warnings and Cautions

A Warning states a condition, hazard, or unsafe practice that can result in serious personal injury or death.

A Caution states a condition, hazard, or unsafe practice that can result in minor personal injury or damage to the product.



A note states important information about the device or its

- 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.
- Care should be taken when using the Upright on patients with severe pulmonary disease or severely immature lungs. Applied pressure should be adjusted and monitored according to the patient's condition. Note that a manometer is not supplied by Laerdal for use with the Upright, but a manometer is possible to connect to the patient port with an appropriate adapter compatible with a ISO 5356-1 connector.
- Care should be taken when using the Upright on patients with severe anomalies or when applying other medical devices which may conflict with the mask as mask leakage may occur. If mask face sealing is not possible to achieve consider using alternative airway device.
- Care should be taken when applying pressure to the mask to avoid facial damage.
- Use of the Newborn masks provided on patients over 5 kg may result in poor fit. Larger masks should be used on patients over 5 kg. Note that these masks are not provided with Upright.

- Care should be taken when using the Upright on patients with severely congested airways. Consider removing congestion from the oropharyngeal airway. Use of the Upright on patients with severely congested airways may result in a reduction in expected oxygenation.
- No pressurized gases or medications should be applied between the Upright with PEEP patient valve and an
- artificial airway. This can lead to patient harm.
- The Upright is not intended for use in delivery of medications, such as anaesthetic gases.
- The Upright patient port does not have a swivel function. Care should be taken when using with an artificial airway

Cautions

- Not tested to ambulance standards
- The hard plastic components of the resuscitator are incompatible with polar solvents such as ethanol and isopropyl alcohol.
- An oxygen blender is recommended if more precise oxygen concentrations are required, for example for pre-terms.
- The use of a PEEP valve (not provided by Laerdal) is recommended in the case that PEEP is indicated for the patient. Note that it is necessary to use the Expiration diverter to attach a PEEP valve.
- Improper assembly of Upright after reprocessing may affect performance

[≡] _{Notes}

- Should any serious malfunction, undesirable incident with, or deterioration in the functionality or performance of the device occur, contact Laerdal promptly. The competent authority where the incident took place and/or the device was used should also be notified.
- The use of third-party devices and oxygen delivery devices with Upright may affect safety and/or performance. Consult with the manufacturer of the third-party device to verify compatibility with Upright and obtain information on possible performance changes.

Warranty

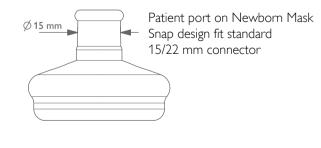
Refer to one-year Laerdal Global Warranty for terms

and conditions. For more information, visit www.laerdal.com.

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.



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.

Pressure release valve: Upright has a pressure release valve ("pop-off") which limits the airway pressure to 30-45 cm H₂O. 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.

CLINICAL USE

Operating the Upright with face mask:

- 1. Connect a suitable face mask.
- 2. Connect to external O₂ source, if applicable.
- 3. Place mask over face and check for seal.
- 4. Squeeze the Ventilation Bag in accordance to clinical protocol.
- 5. Observe patient chest rise during ventilation.
- 6. Allow patient to exhale.
- 7. Stop ventilation as required by clinical protocol.

/!\Warning

Incorrect operation of the resuscitator can be hazardous.

The oxygen source should be able to be adjusted to provide a flow relevant to the Upright. See tables in Upright Oxygen kit's user guide regarding achievable oxygen concentration at varying flows for more information.

Contamination: If the Patient Valve becomes contaminated with vomit during ventilation, disconnect the resuscitator from the patient and clear the Patient Valve as follows:

- Tap the Patient Valve with the patient port against your gloved hand to shake free any contaminant and squeeze the silicone bag to deliver several sharp breaths through the Patient Valve to expel the contaminant.
- If contaminant does not clear; disassemble the Patient Valve and rinse. Reassemble the device and test in accordance

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

SPECIFICATIONS

Operating t	temperature	-18 °C to	50 °C	
Storage ten	mperature	-40 °C to 60 °C		
Expiratory	resistance	<2.5 cm H ₂ O at 5 LPM		
Inspiratory	resistance	<0.5 cm H ₂ O at 5 LPM		
Tidal volum	ne	>150 ml		
Dead space	e	4 ml (water volume)		
External dir (with Newl	mensions born Mask size 1)	Approximately 72 mm × 85 mm × 217 mm		
Mass (with Newl	born Mask size 1)	Approxim 190 gram		
Materials	Hard plastic components		Polysulfone (PSU)	
	Soft plastic components		Silicone rubber	
	Spring		Stainless steel	
Lifetime	Shelf-life		5 years	

100 cycles of

reprocessing

REGULATORY

parameters

Meets ISO 10651-4:2002/EN ISO 10651-4:2009. Lung ventilators – Particular requirements for operator-powered resuscitators.

Expected Service Life

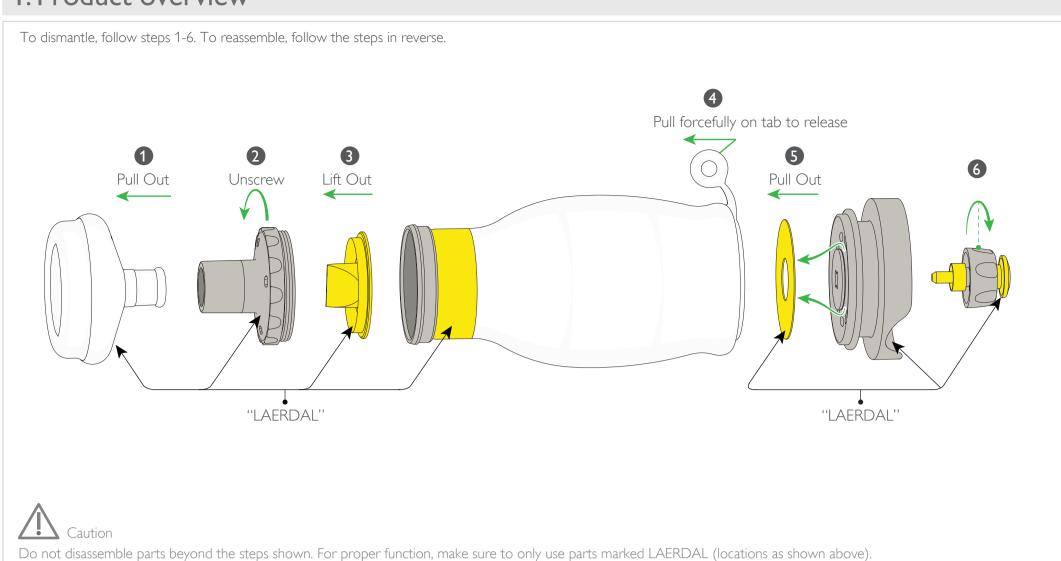
MD	Medical Device
C € 2460	This medical device complies with the general safety and performance requirements of Regulation (EU) 2017/745 for medical devices.
LATEX	Not made with natural rubber latex.

Laerdal Upright Resuscitator

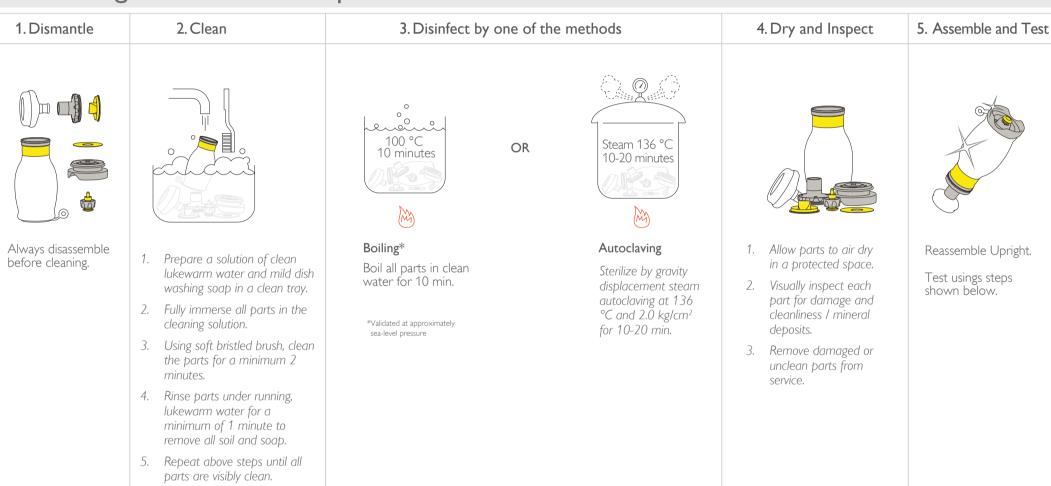
Reprocessing instructions



1. Product overview

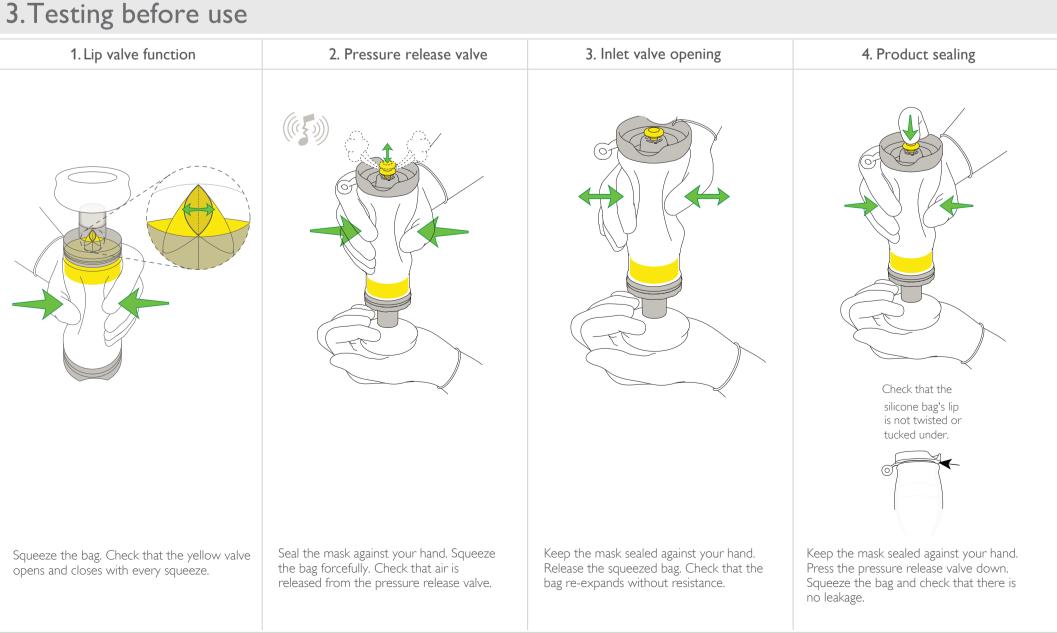


2. Cleaning and Disinfection procedure





- The resuscitator is not provided sterile. The resuscitator and mask must be cleaned and disinfected prior to initial use.
- It is recommended that the highest level of disinfection/sterilization possible is used for patients that may have compromised immune defense, such as a pre-term baby or in the case of outbreaks of highly transmissible pathogens.
- If Upright is stored as back-up in an area with potentially high levels of airborne pathogens, it should be considered to store the Upright in an air-tight container to avoid contamination.



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