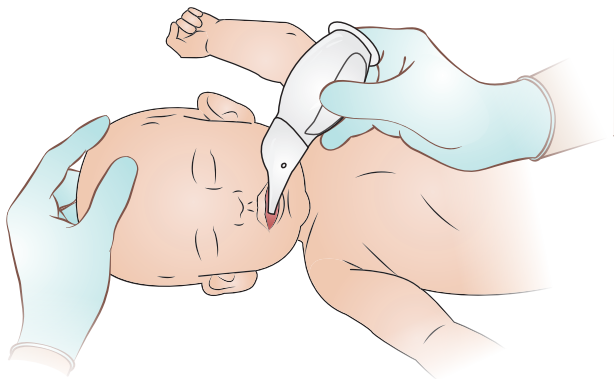


# Penguin

## Newborn Suction

User Guide



REF Cat. no. 986000 QTY 1 each



# Intended Use

---

The Penguin Newborn Suction is primarily intended for removal of fluids from nasal and oral cavities of newborns and infants. It is also suitable for more general use as an irrigating syringe.

## 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 device.

## Notes

Important information about the product or its operation.

## Important information

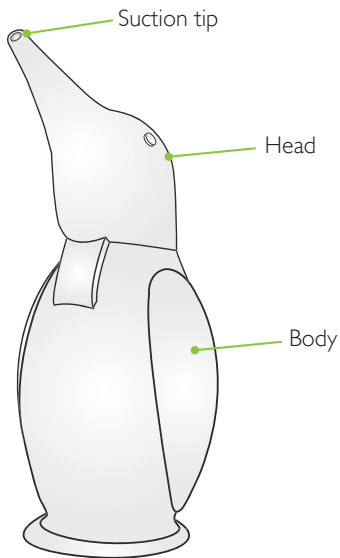
- Use within local medical protocols and guidelines.
- Discard the device if it appears to be damaged.
- This device is not suitable for removal of meconium from lower airways.
- Clean and high-level disinfect the device before next patient use.

Read this User Guide and become familiar with the operation of the product prior to use. Observe all warnings, cautions and instructions. Retain this booklet for future reference.

Information in this User Guide is subject to change. For further information and to access all recent product downloads visit [www.laerdalglobalhealth.com](http://www.laerdalglobalhealth.com)

# Overview

---

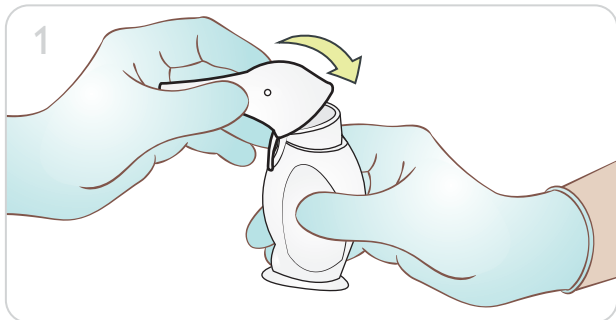


# Function Test - Before Use

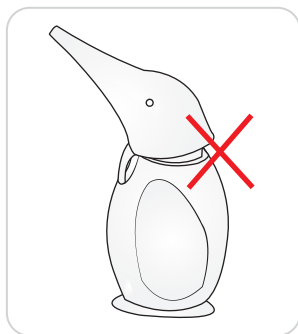
---

 Note

*Always ensure the device is clean and not damaged before use.*

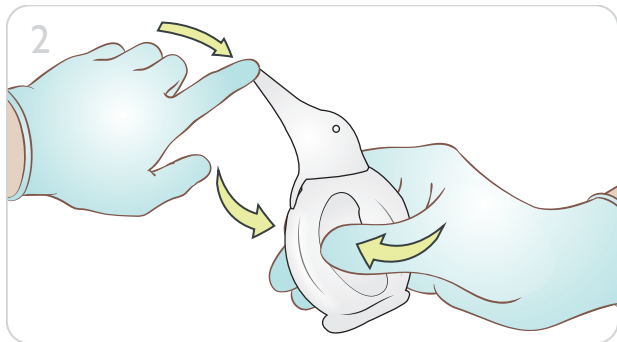


Reattach the head, ensuring a complete seal with the body.



## Function Test - Before Use

---



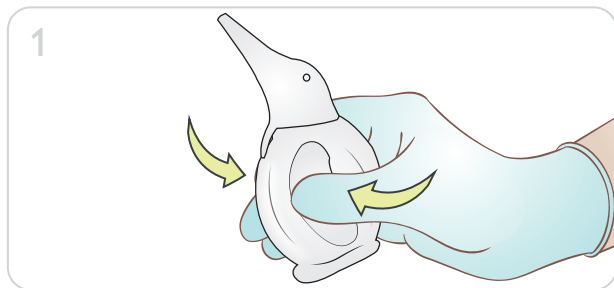
Squeeze the body and block the suction tip with a gloved finger. The body should not re-expand until the suction tip is unblocked.

### Note

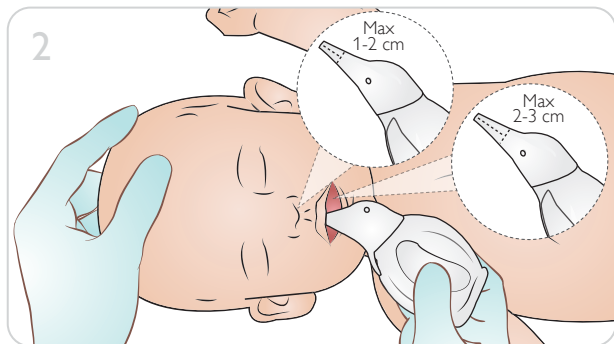
*Suction strength depends on the amount the body is squeezed. Depending on hand size and technique, peak suction achieved may be in the range of 50 - 150 mmHg (68 - 204 cmH<sub>2</sub>O). Practice with a manometer connected to the suction tip to improve technique.*

# Use

---

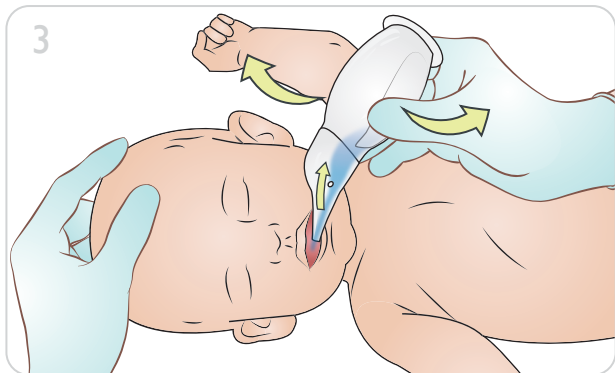


Squeeze the sides of Penguin, before placing into position.

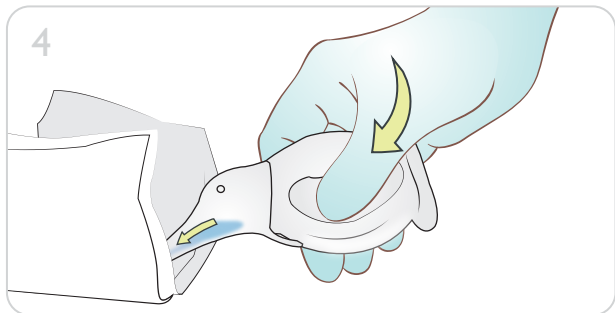


## ⚠ Warnings

- Do not insert the suction tip more than 2-3 cm into the mouth.
- Do not insert the suction tip more than 1-2 cm into the nostrils.



Release slowly.



Extract the suction tip and squeeze the body to empty the contents into a water container, towel or similar. Repeat suction as necessary.

 Warning

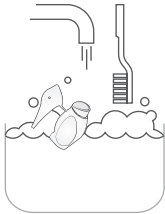

- Do not spray contaminants into the air, as this increases the risk of spreading disease.

# Reprocessing After Use

To reduce the risk of cross-contamination, follow these instructions after each use.

Reprocess equipment immediately after use. Use personal protective equipment to decrease exposure to contaminants and to improve reprocessing efficacy.

## Pre-disinfection

<b>Immediate Pre-Cleaning</b>	
Wipe and clean the outside of Penguin with a piece of clean gauze soaked in 0.5 % chlorine solution.	
<b>Disassembly</b>	
Open the head section away from face to avoid splashing any contaminants. Remove suctioned matter.	
<b>Manual Cleaning</b>	
Wash and scrub all parts with clean water and mild soap.	
Flush water through the suction tip and head. Ensure that all visible contamination is removed.	
If tip is blocked use a thin object (e.g. toothpick) to clear contaminants out of the suction tip.	
<b>Rinsing after cleaning</b>	
Rinse Penguin thoroughly in clean water to remove soap residue.	
<b>Post-Treatment</b>	
Before disinfection, dry with clean gauze or cloth.	



# Reprocessing After Use


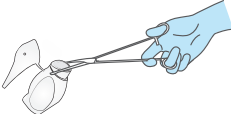
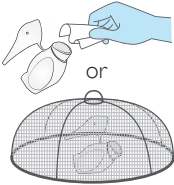
## Disinfection

Choose one of the following disinfection methods:


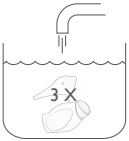

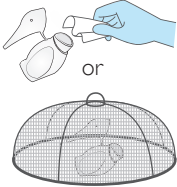
- Autoclaving
- Chemical
- Boil or Steam

 Note



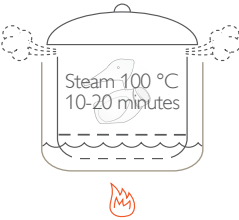
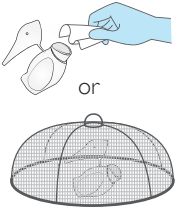
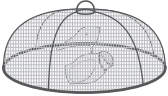
*Ensure that Penguin's head is fully opened during reprocessing.*

Autoclaving	Post-Treatment
 <p>Steam 136 °C 10-20 minutes 2 kg/cm<sup>2</sup></p>	 <p>Remove parts using aseptic technique.</p>  <p>or</p> <p>Allow parts to cool. Dry with sterile gauze or air dry in a protected space.</p>

# Reprocessing After Use

Chemical		Post-Treatment
<p>Activated Glutaraldehyde 2.4% (Follow chemical manufacturer's instructions).</p>	 <p>The diagram shows a hand pouring liquid from a container into a larger container labeled "Disinfect Glutaraldehyde". Inside the larger container, a pair of forceps is shown, indicating the instrument being disinfected.</p>	<p>Empty chemical residue from Penguin.</p>  <p>The diagram shows a faucet pouring water into a container labeled "3 X", representing the rinsing step.</p> <p>Rinse Penguin thoroughly in clean water. Repeat 3 times.</p>  <p>The diagram shows a hand using forceps to remove a part from a Penguin.</p> <p>Remove parts using aseptic technique.</p>  <p>The diagram shows two options for drying: a hand using a sterile gauze pad to dry a part, or a wire mesh cage containing a part.</p> <p>Dry with sterile gauze or air dry in a protected space.</p>

## Reprocessing After Use

Boil or Steam	Post-Treatment	
<p>Boiling</p>		
<p>Steaming</p>		<p>Remove parts using aseptic technique.</p>  <p>or</p>  <p>Allow parts to cool. Dry with sterile gauze or air dry in a protected space.</p>

# Reprocessing After Use

---

## Post Disinfection

<b>Inspection</b>
Visually inspect for damage and cleanliness. Repeat the disinfection step if necessary. If damaged, remove Penguin from use.
<b>Reassembly</b>
Reattach the head, ensuring a complete seal with the body.
<b>Function Test</b>
Squeeze the body and block the suction tip with a gloved finger. The body should not re-expand until the suction tip is unblocked. Refer to the Function Test section for more information.
<b>Storage</b>
To prevent re-contamination of Penguin before use, store in a clean, enclosed space.

## Descaling

If Penguin becomes coated in limescale immerse in equal parts of water and white vinegar (3-5%) for 10 minutes. Rinse in clean water. Repeat if necessary.

## Warnings and Cautions

---

### Warning

*Failure to disinfect the device properly increases the risk of spreading disease.*

### Cautions

- Laerdal strongly discourages the use of rinsing and drying agents. Such agents may not be compatible with the materials used in Penguin.*
- The use of cleaning and disinfection procedures not described in this section may have adverse effects on the product material and/or performance.*
- Penguin must be high-level disinfected before first time use.*
- Discolouration may occur if the product is exposed to organic matter or petrochemical fumes.*

### Note

*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.*

# Specifications

---

## Specifications









<b>Dimensions</b>	
Suction tip dimensions at tip	Inner diameter (ID): 3.0 mm
	Outer diameter (OD): 4.5 mm
Suction strength (typical)	100 mmHg (136 cmH <sub>2</sub> O)
Fluid capacity	75 ml
<b>Conditions</b>	
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
<b>Material</b>	
Silicone rubber	

## Regulatory Information

---

**CE** This medical device complies with the general safety and performance requirements of Regulation (EU) 2017/745 for medical devices.

### Symbol Glossary

	CE Mark
	Not made with natural rubber latex
	Lot number
	Catalogue number
	Manufacturer
	Date of Manufacture
	Warning/Caution
	Medical Device

Global Warranty:  
See [www.laerdal.com](http://www.laerdal.com)

Laerdal, the Laerdal logo and 'helping save lives' are trademarks of Laerdal Medical or its affiliates.  
Ownership and all rights reserved.

Protected under US Patent 8,696,648 and other international patents. US design patent D634,002 S and other international design registrations.

© 2021 Laerdal Medical AS. All rights reserved.

Manufactured in China for:

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

Email: LGH@laerdal.com

Distributed in USA by:

LAERDAL MEDICAL CORPORATION

167 Myers Corners Road, Wappingers Falls,

NY 12590, USA

Tel. +1 (800) 431-1055, +1 (845) 297-7770

Fax. +1 (800) 227-1143

[www.laerdal.com](http://www.laerdal.com)

Printed in China

20-02076 Rev J

---

[www.laerdalglobalhealth.com](http://www.laerdalglobalhealth.com)



**Laerdal**

helping save lives