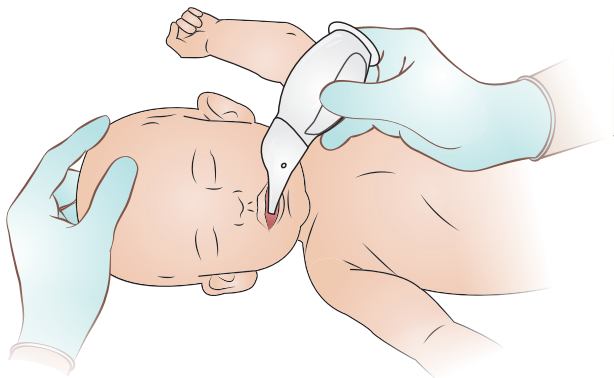


# Penguin

## Newborn Suction

### User Guide



REF Cat. no. 986000 QTY 1 each

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



**Laerdal**  
helping save lives

## Intended Use

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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

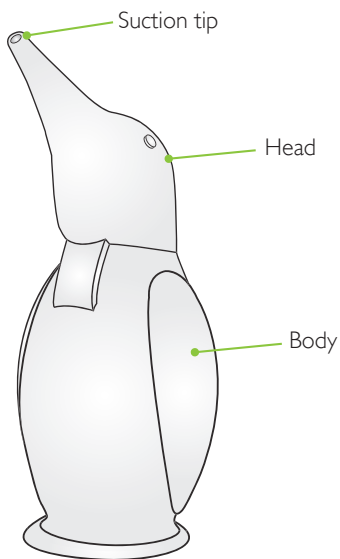
- Use within local medical protocols and guidelines.
- Discard the device if it appears to be damaged.
- This device is not suitable for removal of meconium from lower airways.
- Clean and high-level disinfect the device before next patient use.

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

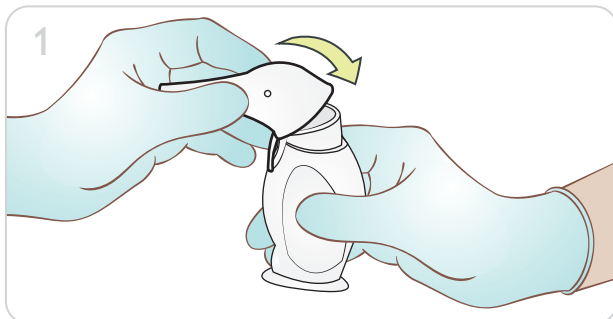
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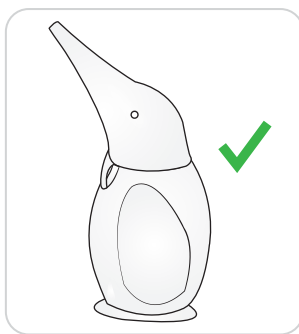
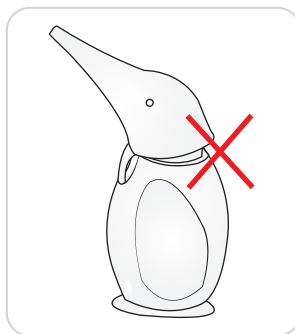
## Function Test - Before Use

### Note

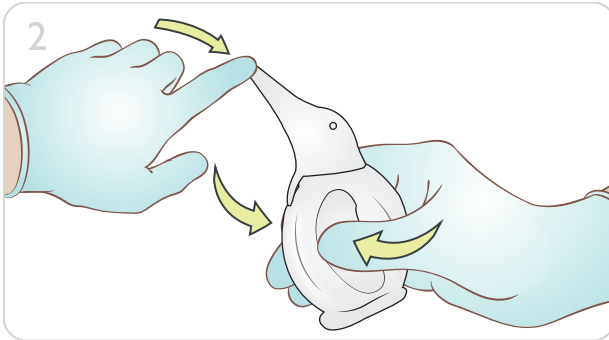
*Always ensure the device is clean and not damaged before use.*



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



## Function Test - Before Use

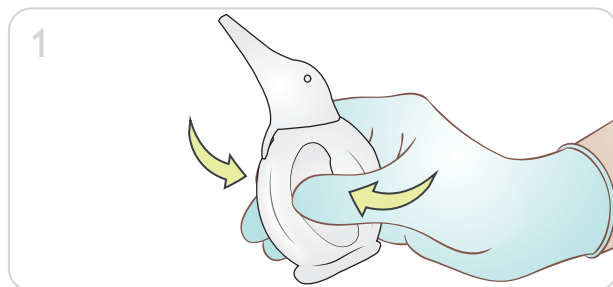


Squeeze the body and block the suction tip with a gloved finger. The body should not re-expand until the suction tip is unblocked.

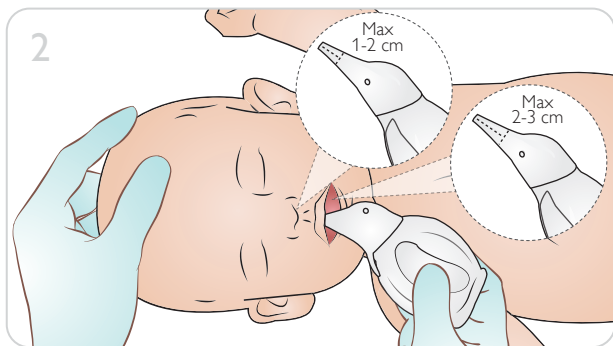
### Note

*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



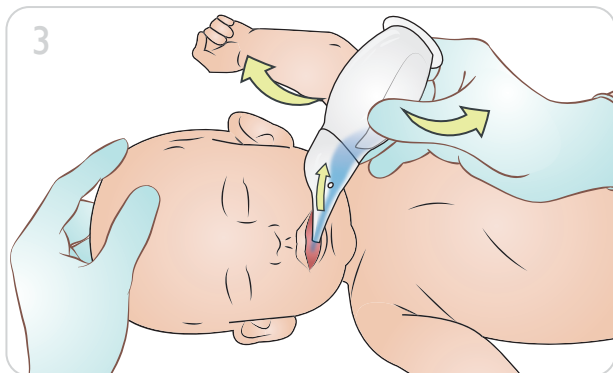
Squeeze the sides of Penguin, before placing into position.



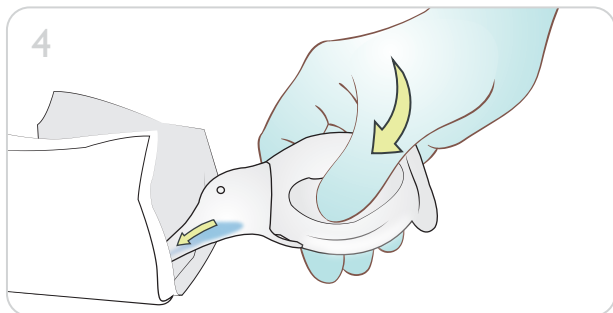
### ⚠ Warnings

- 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.

Use



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

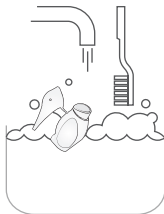

- Do not spray contaminants into the air, as this increases the risk of spreading disease.

## 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

Immediate Pre-Cleaning	
Wipe and clean the outside of Penguin with a piece of clean gauze soaked in 0.5 % chlorine solution.	
Disassembly	
Open the head section away from face to avoid splashing any contaminants. Remove suctioned matter.	
Manual Cleaning	
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.	
Rinsing after cleaning	
Rinse Penguin thoroughly in clean water to remove soap residue.	
Post-Treatment	
Before disinfection, dry with clean gauze or cloth.	



## Reprocessing After Use

### Disinfection


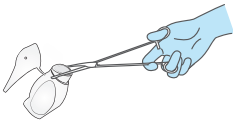
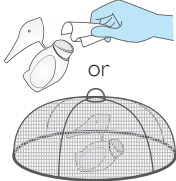
Choose one of the following disinfection methods:

- Autoclaving
- Chemical
- Boil or Steam



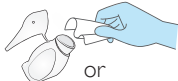
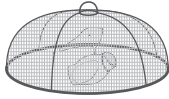


Note


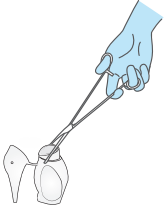
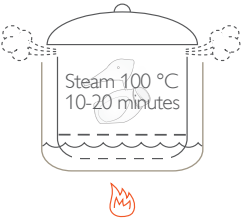
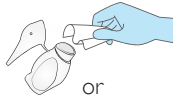
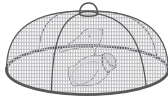
*Ensure that Penguin's head is fully opened during reprocessing.*

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>Empty chemical residue from Penguin.</p>  <p>Rinse Penguin thoroughly in clean water. Repeat 3 times.</p>  <p>Remove parts using aseptic technique.</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

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### Post Disinfection

Inspection
Visually inspect for damage and cleanliness. Repeat the disinfection step if necessary. If damaged, remove Penguin from use.
Reassembly
Reattach the head, ensuring a complete seal with the body.
Function Test
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.
Storage
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

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### 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

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## Specifications

Dimensions	
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
Conditions	
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Material	
Silicone rubber	

## Regulatory Information

 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)

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

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