

180° INNOVATIONS

Electronic Nasal Aspirator

Instructions for Use



Thank you for purchasing a *180°* @ *180°* product.

Manufactured for and Distributed by:
180° Innovations, Lakewood, CO 80215

Made in China

MODEL NS14

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Please read the instructions and warnings carefully before use to ensure safe and satisfactory operation of this product.

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PRODUCT FEATURES

1. **Powerful Suction:** Place aspiration tip into nostril to gently, yet powerfully remove nasal secretions.
2. **Safe:** The soft aspiration tips are made from comfortable, latex-free, soft hygienic silicone to help prevent the possibility of injury when using the device. The tips are also dishwasher safe.
3. **Compact & Easy Design:** This device is compact, easy to hold and operate and is safe and comfortable for use with infants or children.
4. **Washable Head Module Design:** Tips, collection cup & removable head piece can be removed from the device and washed. (Collection cup can also be disinfected in boiling water.)
5. **Easy to Use:** Simple operation.
6. **Battery Operated:** This device uses two 1.5V AA batteries (included).

General Advice

The device is designed for using suction to remove nasal secretions and mucus in Children (age newborn to 12 years old) in your home environment.

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General Advice *CONTINUED*

1. Do not expose the device to extreme temperature, very high humidity level, or direct sunlight.
2. Avoid extreme shock, stress on or dropping of the device. It is not shock proof.
3. Replace the batteries when the power and/or the sound of the pump weakens during the use of the device.
4. It is recommended that you remove the batteries if the device will not be used for a period of time.
5. Pressing and holding the power button starts the device and generates vacuum for the removal of nasal secretions and mucus. To stop the suction, simply release the power button to turn it off.
6. Only a few seconds of suction at a time are necessary.
7. This Nasal Aspirator is for cleaning/removal of nasal secretions only. Do not use this device other than for its intended purposes.
8. During the use of the device, the baby/child should **not hold their breath, close their mouth or swallow**. This will help to avoid vacuum pressure resulting in an eardrum pressure imbalance.
9. If the baby/child does not feel well when using the device, stop and consult a doctor immediately.
10. Do not apply excessive force when placing the aspiration tip into the nasal cavity.
11. This device is for home use only. Please consult a doctor in case of nasal diseases.
12. The aspirator tips should be cleaned after each and every use.

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13. The operators of this device shall be adults or individuals who can follow the instructions and notices outlined in this user's manual. This device is not intended for use by children themselves. **Keep the nasal aspirator stored away from children. Children should NEVER operate the device themselves.**
14. DO NOT use the Nasal Aspirator when the baby/child has the following contraindications:
- Nasal bleeding
 - Acute head, facial, or neck injury
 - Coagulopathy or bleeding disorder
15. Before using the device, please read this User's Manual carefully. Incorrect use of the device may cause the following hazards/complications:
- Mechanical trauma
 - Nasal irritation/bleeding
 - Mucosal hemorrhage
 - Discomfort and pain

NOTE: This Nasal Aspirator must only be used with the tips supplied with the device.

WARNINGS

Failure to follow these warnings and the assembly instructions could result in serious injury or death. Modifications not authorized by the manufacturer may void user's authority to operate this device.

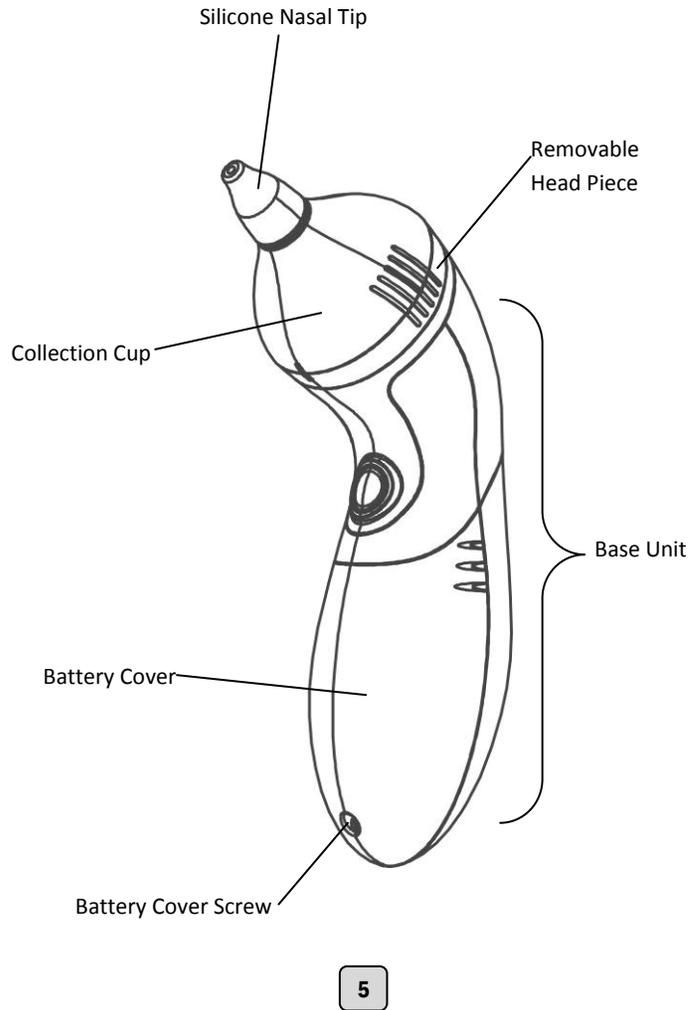
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WARNINGS *CONTINUED*

- **WARNING: This product is not a toy. Do not allow children to play with it. Individual parts may present a choking hazard.**
- **Keep Nasal Aspirator away from heat sources**, such as fireplaces, radiators, stoves, and TVs or other appliances. Heat can damage the case or electrical parts.
- **DO NOT use the Nasal Aspirator Unit if** it has been dropped or is damaged.
- **DO NOT OPEN THE NASAL ASPIRATOR.** There are NO user-serviceable parts inside the unit. Risk of electrical shock, fire or death.
- Do not drop the device! Protect it from severe impact and shock.
- Keep out of the reach of children when not in use.
- **NOTE:** Do not microwave.
- **CAUTION:** Never insert the aspirator too far into the nostril. Never place the tip firmly against the inside wall of the nostril. This aspirator is for cleaning congestion in nasal passages. Do not use this device for anything other than its intended purpose.
- Do not modify this device in any way.
- **NEVER** use on ears, mouth, or eyes.
- **NOTE:** Please consult with your physician on when and how often you should aspirate your baby/child's nasal passages.

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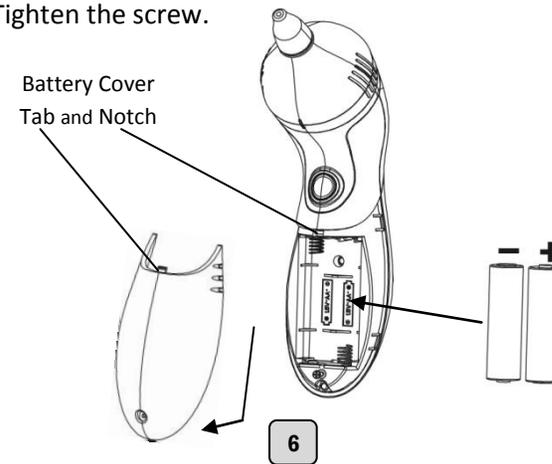
Product Overview



Battery Installation/Replacement

Recommended battery type – alkaline, size AA 1.5 VDC.
Change batteries when product ceases to operate satisfactorily.

1. Loosen Battery Cover Screw and remove the battery cover as shown below.
2. Requires two 1.5V alkaline AA size batteries (included).
3. Clean the battery ends as well as the contacts *in* the device prior to installing or re-installing batteries (use a cotton swab *slightly* dampened with rubbing alcohol).
4. Insert two new batteries being careful to match the correct polarities (+ and -).
5. Firmly press the batteries to make sure they are completely inserted.
6. Replace the battery cover making sure to insert Tab into Notch and then press until the cover clicks into place. Tighten the screw.



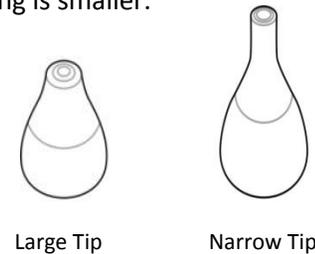
Battery Safety

- When changing the batteries, use batteries of the same type, make and capacity.
- Always replace both batteries at the same time.
- Never mix alkaline, standard carbon-zinc or rechargeable batteries in the same device. Do not mix old and new batteries.
- Use batteries free of heavy metals.
- Dispose of used batteries in accordance to your state and local regulations. Never dispose of batteries in the normal household waste.
- Keep the batteries out of children's reach.
- Batteries may leak battery acid; ❶ if mixed with a different battery type, ❷ if inserted incorrectly (put in backwards) or ❸ if all batteries are not replaced or recharged at the same time.
- Batteries may explode or leak battery acid if disposed of in fire or when charging a battery that is not specifically made to be recharged. Never recharge a cell of one type in a recharger made for a cell of another type.
- Discard leaky batteries immediately. They can cause skin burns or other injury. When discarding batteries, be sure to dispose of them in the proper manner, according to your state and local regulations.
- Always remove batteries before storing or if product will not be used for a prolonged period of time. Batteries left in the unit may leak and cause damage.

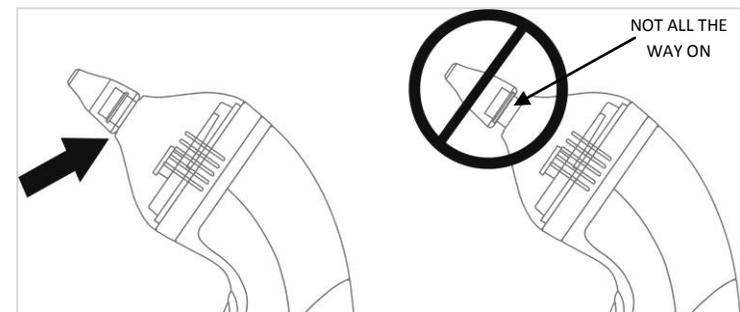
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Instruction for Use

1. There are two Tips to choose from. The **large tip** is recommended for use when the mucus is in a thicker, more solid form. The **narrow tip** is recommended for use when the mucus is loose and in a liquid form or when nostril opening is smaller.

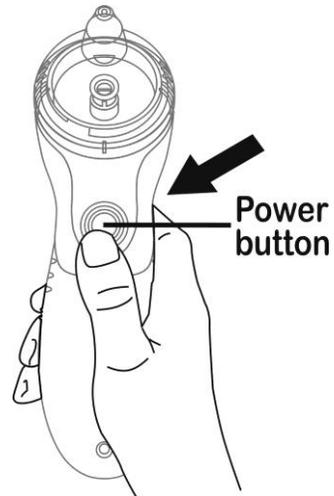


2. Be sure to place the tip securely on the aspirator. The Tip must completely cover the rib before using.



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3. Hold the baby/child upright and insert the tip into the nostril until the tip seals the nostril. Be careful not to place the tip too far into the nostril or press against the inside wall of the nostril.
4. Press and hold the power button to activate and allow the suction to clear the mucus. Only a few seconds of suction at a time are necessary. Repeat in the other nostril or as needed.



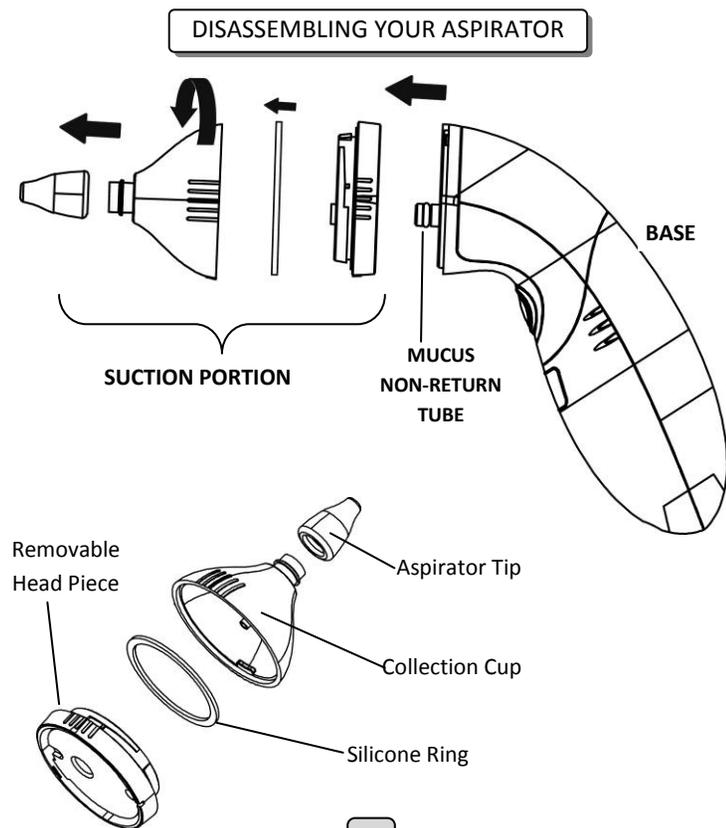
HELPFUL HINTS:

- If needed, block the opposite nostril for more effective suctioning.
- A small amount of saline mist may help to loosen thicker mucus.
- Opening the baby/child's mouth will help reduce ear pressure discomfort.

Note: The mucus may not immediately appear in the collection cup. After each use we recommend a quick cleaning of the used tip by removing it from the unit and thoroughly rinsing under warm tap.

Care and Cleaning

1. Separate the suction portion from the base of the aspirator by gently pulling it apart.
2. Unscrew collection cup by turning it counter clockwise.
3. Remove white rubber ring located where collection cup screws in.



4. **Cleaning the Base:** Wipe the unit with a clean soft dry cloth.

NEVER WASH THE BASE WITH WATER OR ANY LIQUID



5. **Cleaning the Suction Portion:** Wash the *collection cup*, *silicone ring* and *aspirator tips* with mild soap and water and rinse thoroughly with running hot tap water for 3 minutes.
6. Rinse the **Removable Head Piece** with running *hot tap water only* for 3 minutes.
7. Let all pieces thoroughly air dry before re-assembling.

NOTES:

- * **Never use any cleaners or solutions other than mild soap and water.**
- * After cleaning, the collection cup and silicone ring may be disinfected by boiling in water.
- * **NEVER** boil the Removable Head Piece or the Non-return Tube. They may be damaged if overheated.
- * **Nasal Tips ONLY** are dishwasher safe.

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Technical Specifications

Effective Vacuum Pressure:

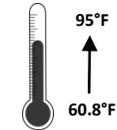
400 mm Hg (53.3 kpa)

Sound Pressure Level: 75 – 80 dB

Motor: 3V/DC

Operating environment:

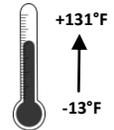
60.8°F – 95°F (16°C – 35°C)



Storage/Transportation environment:

-13°F ~ +131°F (-25°C ~ +55°C)

With relative humidity up to 85% (non condensing).



Aspiration Tip: Soft Silicone (Latex-free)



Battery: Two 1.5 VDC alkaline AA Size

Dimensions: 50.6mm x 92.7mm x 170.8mm (L x W x H)

Weight: 136g (without Batteries)



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EMC Tables

Guide and manufacturer's declaration-electromagnetic emissions

The NS14 Nasal Aspirator is intended for use in the electromagnetic environment specified below. The customer or the user of the NS14 Nasal Aspirator should assure that it is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment-guidance
RF emissions CISPR 11	Group 1	The NS14 Nasal Aspirator uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The NS14 Nasal Aspirator is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Not applicable	

Guidance and manufacturer's declaration – electromagnetic immunity

The NS14 Nasal Aspirator is intended for use in the electromagnetic environment specified below. The customer or the user of the NS14 Nasal Aspirator should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic Environment-guidance
Electrostatic discharge (ESD) IEC 61000-4-2	± g kV contact ± 8kV air	± g kV contact ± 8kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Power frequency (50/50 Hz) Magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

EMC Tables

Guidance and manufacturer's declaration-electromagnetic immunity

The NS14 Nasal Aspirator is intended for use in the electromagnetic environment specified below. The customer or the user of the NS14 Nasal Aspirator should assure that it is used in such an environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment- guidance
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the NS14 Nasal Aspirator, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> <p>$d=1.2 \sqrt{P}$ $d=1.2 \sqrt{P}$ 80 MHz to 800 MHz $d=2.3 \sqrt{P}$ 800 MHz to 2,5 GHz</p> <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey^a, should be less than the compliance level in each frequency range^b.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol: </p>
<p>NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			

- a. Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the **NS14 Nasal Aspirator** is used exceeds the applicable RF compliance level above, the **NS14 Nasal Aspirator** should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the **NS14 Nasal Aspirator**.
- b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the NS14 Nasal Aspirator

The **NS14 Nasal Aspirator** is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the **NS14 Nasal Aspirator** can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the **NS14 Nasal Aspirator** as recommended below, according to the maximum output power of the communications equipment.

Rated maximum Output power of Transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d=1.2 \sqrt{P}$	80 MHz to 800 MHz $d=1.2 \sqrt{P}$	800 MHz to 2.5 GHz $d=2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Limited Warranty

This **NS14 Nasal Aspirator** (batteries excluded) is guaranteed for one year from the date of purchase against manufacturer’s defect under normal, household use and without evidence of tampering.

WARRANTY EXCLUSIONS:

- Device shows any signs of tampering or attempted modification.
- Evidence of improper handling or storing, such as dropping, heat, liquid or cleaner damage.
- Damage caused by natural disasters (fire, flood, earthquake, lightening).
- **No receipt or proof of purchase showing date of purchase.**

Following the directions closely will ensure years of dependable operation. If the **NS14 Nasal Aspirator** does not function properly, first check the batteries (see battery installation/replacement instructions). Replace the batteries if necessary. If the **NS14 Nasal Aspirator** still does not function properly, please contact 180° Innovations at:

Email: _____

Toll free: 1-877-299-6700

Mail: 11100 West 8th Ave, Lakewood, CO 80215

Our representative will provide further instruction on how to correct the trouble or will ask you to return it for repair or replacement.

@

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