

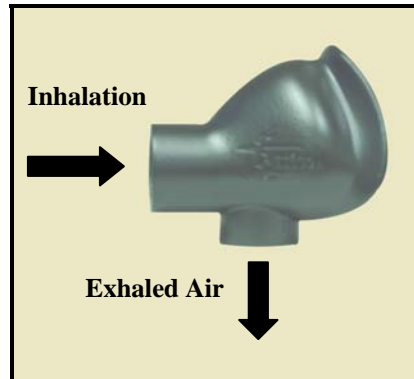
Nasal Ranger® Nasal Mask

INSTRUCTIONS OF USE AND MAINTENANCE

The Nasal Ranger® Nasal Mask is made of a carbon-fiber/epoxy polymer with a fluoropolymer coating. The Nasal Mask was specifically designed for use with the Nasal Ranger® Field Olfactometer. The Nasal Mask has three openings:

- 1) **Nasal Port** – ergonomically designed to match the geometry of the human nose and face,
- 2) **Inhalation Inlet** – opposite the nasal port, this port allows air into the mask from the Field Olfactometer, and
- 3) **Exhalation Outlet** – when the nose is placed in the nasal port, the exhalation outlet is the opening above the upper lip, which allows air exhaled through the nose to exit the mask.

A check valve is placed in both the inhalation inlet and the exhalation outlet in order to control the direction of air flow while using the Nasal Ranger® Field Olfactometer. The check valve placed inside the inhalation inlet allows air to pass from the Nasal Ranger® Field Olfactometer into the Nasal Mask during inhalation and prevents air from passing back into the Nasal Ranger® Field Olfactometer during exhalation. The check valve in the exhalation outlet allows air exhaled through the nose to pass out of the Nasal Mask and prevents ambient air from getting into the mask through this port during inhalation.



The check valves are replaceable if they become dirty or damaged. The valves are pressed into the respective ports and can be removed by applying pressure to the outer rim of the valve from inside the Nasal Mask. The inhalation and exhalation check valves are supplied by St. Croix Sensory as Part Numbers NR0041 and NR0042.

Attachment: To ensure long lasting o-rings give mask a half turn clockwise when mounting to Nasal Ranger.

Cleaning: St. Croix Sensory recommends cleaning the Nasal Mask using disposable wipes wetted with isopropyl alcohol. St. Croix Sensory provides specified wipes as Part Number NR0063. Moist towelettes and other wipes purchased in stores usually contain a fragrance that may leave a background odor on the Nasal Mask. Store purchased wipes should be avoided.

CAUTION: The Nasal Mask is fragile. The mask could break if dropped onto a hard surface.

WARNING: Cleaning the Nasal Mask in a dishwasher or autoclave or otherwise exposing the Nasal Mask to extreme heat (e.g. >120°F) will damage the Nasal Mask.

The Comfort Seal

The Comfort Seal is a disposable accessory designed to improve the mask sealing and comfort during use with the Nasal Ranger® Nasal Mask and Nasal Ranger® Field Olfactometer. The Comfort Seal is manufactured of unique super-soft foam that has been used for years in skin contact applications in the medical industry. The seal is shaped to match the geometry of the Nasal Ranger® Nasal Mask used for the Nasal Ranger® Field Olfactometer. The seals are easy to apply with a pressure sensitive adhesive on one side that attaches to the mask.

To install the Comfort Seal, follow these simple steps:

1. GRIP the pull-tab on the paper backing.
2. PEEL off the paper backing.
3. ALIGN the seal with the mask rim.
4. PRESS the seal onto the mask firmly.

Nasal Ranger® Nasal Mask

INSTRUCTIONS OF USE AND MAINTENANCE

(CONTINUED)

The Comfort Seal “installed” to accommodate noses of all sizes.



WIDE

NARROW

The Comfort Seal is designed for use by one person ONLY. The Comfort Seal needs to be wiped at least daily and changed weekly or more frequently in order to be odor-free. Remove and dispose of the seal when it becomes dirty or if another person will be using the mask. Remove the comfort seal; rub off the gummy glue residual; and wipe the face of the mask with an isopropyl wipe.

Mask Fit Test (LEAK TEST) for Best Results:



With the stopper in place (LEAK TEST), you should not be able to inhale through your nose.

NASAL RANGER® REPLACEABLE ODOR-FILTER CARTRIDGES

INSTRUCTIONS OF USE AND MAINTENANCE

NOTICE: The replaceable odor-filter cartridges are ONLY for use with the Nasal Ranger® Field Olfactometer manufactured by St. Croix Sensory, Inc.

The replaceable odor-filter cartridges contain a proprietary blend of granular activated carbon multi-media, which is designed to remove odors from the ambient air.

These cartridges are NOT to be used under the following conditions or scenarios:

1. As respirator cartridges for the reduction or elimination of hazardous chemicals in the air.
2. In atmospheres where contaminant concentrations are unknown, immediately dangerous to life/health, or exceed applicable local standards or U.S. Occupational Safety and Health Administration (OSHA) standards.
3. In atmospheres that contain less than 19.5% oxygen.

Replacement Instructions

The replaceable cartridges are attached to the Nasal Ranger® Field Olfactometer with a right hand thread. The following instructions are used to replace a set of cartridges:

1. Remove the used cartridges by loosening the right hand thread (**Turn Counterclockwise**)
2. Dispose of the used cartridges.
3. Remove the new cartridges from the plastic packaging.
4. Install the new cartridges by inserting the threaded end into the cartridge holder on the Nasal Ranger® Field Olfactometer and turning the cartridge in the direction of the arrow on the label (**Turn Clockwise**).
5. Tighten the cartridge **HAND TIGHT ONLY**. The cartridge will tighten against the o-ring inside the cartridge holder on the Nasal Ranger® Field Olfactometer.

Replace both cartridges in accordance with an established “cartridge change schedule”. The user may decide to replace the cartridges before each use of the Nasal Ranger® Field Olfactometer, or may chose a convenient time frame for replacement. Cartridges should be changed immediately if the user detects a smell when inhaling through the Nasal Ranger® Field Olfactometer set on a blank position (odor-filtered air only).

Leave the odor-filter cartridges in factory packaging before they are used. Once the cartridge packages are opened, store the cartridges away from odorous areas when not in use.

Do not alter, misuse or abuse these replaceable odor-filter cartridges.

Please contact St. Croix Sensory, Inc. if you have any questions about the use, application, or maintenance of the Nasal Ranger® Replaceable Odor-Filter Cartridges at 1-800-879-9231 (+651-439-0177), or visit www.NasalRanger.com.