VAP • R-CLEAN [™] THE Orange Filters for Malignant Hyperthermia

Instructions for Use:

Single Patient Use, Not Intended for Reprocessing

Intended use: To remove unwanted anesthetic gas from the breathing circuit.

Intended patient population: Surgical patients being ventilated by an anesthesia gas machine.

Instructions for use

- 1. Turn off the anesthesia vaporizer
- Increase fresh gas flow to >10 L/min for at least 90 seconds to flush the vapor from the anesthesia delivery system
- 3. Place one of the Vapor-Clean canisters on the inspired port of the anesthesia machine and the other canister on the expired port of the anesthesia machine.
- Replace the breathing bag and connect a new breathing circuit between the patient and the Vapor-Clean canisters. Maintain fresh gas flow at >3L/min.

Warnings

Warning: This device contains charcoal and charcoal dust. If damaged, the charcoal dust may leak from the device. The physical nature of this dust may produce eye irritation.

Warning: Sterilization of this device with Ethylene Oxide will exhaust the anesthetic absorber and render the device useless.

Warning: Do not soak, rinse, sterilize or reuse this device as reprocessing may render the device nonfunctional.

Warning: This product contains activated charcoal. Activated charcoal in contact with strong oxidizers such as ozone, liquid oxygen, chlorine gas, permanganate, etc. may result in fire.

Warning: Do not use this device when intending to anesthetize patients using vapor.

Warning: In a patient that is known, or suspected, of having malignant hyperthermia, the safest course of action is to use a ventilator which has never been exposed to anesthetic vapors.

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Warning: Bench testing has demonstrated that this product removes at least 99% of anesthetic vapors (isoflurane, sevoflurane and desflurane). This means that 1% of anesthetic vapor emitted by an anesthesia gas machine may be inhaled by the patient.

Warning: This device is capable of removing residual anesthetic from the breathing circuit for 12 hours of continuous use. Replace the Vapor-Clean canisters with a new set after 12 hours of use on a single patient. Replace the Vapor-Clean canisters with a new set after 60 minutes of use on a patient who is exhaling volatile anesthetics.



Warning: This device does not capture or scavenge nitrous oxide.

Warning: This device has not been tested using any anesthetics agents other than isoflurane, sevoflurane and desflurane.

Cautions

Federal (USA) law restricts this device to sale to, or on order of, a physician.

This device and its packaging contain no natural latex

Device Specifications

Connections

Anesthesia machine side: 22 mm female Breathing circuit side: 22 mm male

 $\begin{array}{rl} \mbox{Resistance to Flow:} & <3.0 \ \mbox{cm} \ \mbox{H}_2 \mbox{O} \ \mbox{at 1 liter per second} \\ & <1.5 \ \ \mbox{cm} \ \ \mbox{H}_2 \mbox{O} \ \mbox{at 0.5 liter per second} \end{array}$

Minimum Anesthetic Removal: ≥99 % removed Internal volume: 92 ml

Storage Conditions

Store at temperatures between 15° C and 40°C Store at relative humidity between 15% and 95% noncondensing

Manufactured by:

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U.S. Patent No.: 8,485,187, 8,800,561. Other patents pending