Dynasthetics

Vapor-Clean

Vapor-Clean Filters for MH-Susceptible

Normal Circuit

Coaxial Circuit

For MH-Susceptible Patients

Ready in Under 90 Seconds

The internal components of modern anesthesia machines capture and hold volatile anesthetics which are released when the machine is used for a new patient. Even trace amounts of vapor can be harmful for susceptible patients. Previously, flushing the anesthesia machine with high fresh gas flow for an extended time before a case was thought to help decrease the risk to susceptible patients. Now, in less than 90 seconds, Vapor-Clean activated charcoal filters reduce exposure to less than 5ppm of desflurane, sevoflurane and isoflurane molecules from reaching the patient for an entire case lasting up to 12 hours.

Standardize Anesthesia Machine Preparation for MH

- Compatible with all anesthesia machines
- Two-year minimum shelf life
- Reduces costly operating room delays due to “surprise” MH-susceptible patients
- Negligible additional breathing circuit resistance
- No need to remove CO_2 absorbant
- Compatible with both standard two-limb and coaxial breathing circuits

For an MH Crisis: Curtail Exposure to Volatile Agents Without Delaying Dantrolene

In the event of an MH crisis, physicans can quickly turn off the anesthetic gas, place the Vapor-Clean and curtail further exposure without delaying the administration of dantrolene, and without switching to manual ventilation. Without the Vapor-Clean, the time needed to replace the anesthesia machine, or change the circle system and CO2 absorbant can often delay the administration of dantrolene.

Product Code	Description	QTY
101AU	Vapor-Clean Filters	BOX 3
111AU	Vapor-Clean Filters	BOX 8

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Traditional Flushing Takes Longer Than You Think

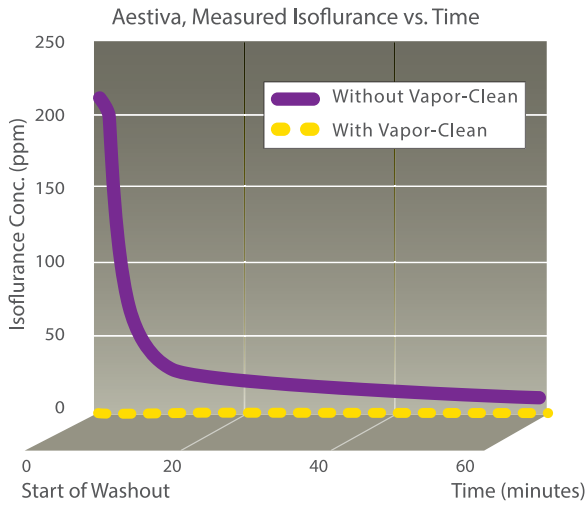
The table is a summary of published studies that show the extended periods of flushing needed without the Vapor-Clean filters before modern anesthesia delivery systems can be used for MH-susceptible patients.

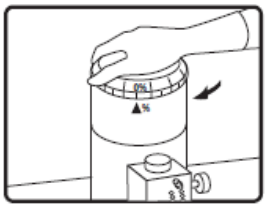
The data plot at right shows concentration of anesthetic vapor in an Ohmeda Aestiva anesthesia machine after the machine was used to deliver isoflurane at 1 MAC for 2 hours. Without the Vapor-Clean, it took over 60 minutes of flushing the machine at 10 L/minute before the vapor emitted by the machine was safely below 5 parts per million. Under the same conditions, when using the Vapor-Clean filters, the machine was ready in less than 2 minutes.

No Rebound Effect with the Vapor-Clean

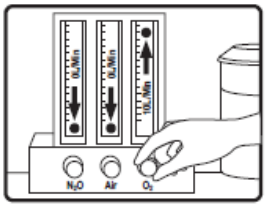
Patients are not exposed to a rebound effect as the Vapor-Clean filters block vapors for the entire case[2].

Workstation type	Anesthetic agent	Published washout time (time to inspired agent less than 5 parts per million)	Time to inspired agent less than 5 parts per million with Vapor-Clean filters
Ohmeda Aestiva	Isoflurane	54 minutes [2]	Less than 1 minute [2]
Ohmeda Aestiva	Sevoflurane	48 minutes [2]	Less than 1 minute [2]
Ohmeda Aestiva	Desflurane	27 minutes [2]	Less than 1 minute [2]
Draeger Apollo	Isoflurane	84 minutes [2]	Less than 1.5 minutes [2]
Draeger Apollo	Sevoflurane	46 minutes [2]	Less than 1 minute [2]
Draeger Apollo	Desflurane	53 minutes [2]	Less than 1 minute [2]
Draeger Primus	Isoflurane	64 minutes [4]	
Ohmeda Aestiva	Sevoflurane	55 minutes [5]	Less than 1 minute [2]
Draeger Fabius	Sevoflurane	104 minutes [3]	
GE Avance	Sevoflurane	61 minutes [4]	
Maquet Flow-i	Sevoflurane	48 minutes [4]	
GE Aisys	Sevoflurane	55 minutes [4]	

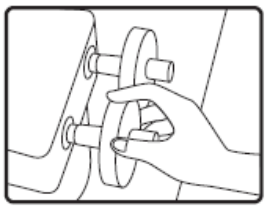




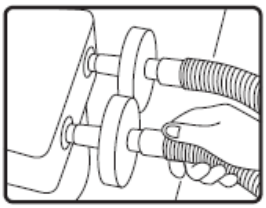
1. Turn off the anesthesia vaporizer



2. 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.



4. 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.

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