

INTRODUCING **AEROCURE VAC**

THE HANDS-FREE SOLUTION FOR SURGICAL SMOKE MANAGEMENT

The AeroCure Vac[®] is a mobile air filtration system that protects patients and hospital staff from airborne dangers arising from electrosurgical plume.

- 5X more smoke removal over traditional smoke evacuators
- Hands-free: no tactile or visual surgical interference
- Patented single-use filter-drape for use in sterile field
- Gas catalyst removes >70% more formaldehyde than carbon alone
- Small footprint and low noise
- More cost-effective than handpiece-based systems
- Removal of aerosols , power tool debris, bone cement fumes



Air contaminants in operating rooms put patients and hospital staff at risk:



Airborne Pathogens
UV lamps inactivate organisms
and bacteria can be present in plume



Surgical Smoke Particles
ULPA filtration removes
smoke particulate



Volatile Organic Compounds
Gas catalyst removes formaldehyde
classified as hazardous by OSHA

A NEW CONCEPT IN SURGICAL SMOKE FILTRATION:

The AeroCure Vac uses a draped semi-rigid vacuum tube which is placed near the patient. This system evacuates contaminated air from near the patient. The treated air is then returned to the room at floor level. Advantages include:

- Preservation of surgical site visualization
- Frees hand or assistant from suctioning
- No patient contact to cause contamination
- No bulky suction electro-surgical pencils
- Wide 2.5" tube nearly silent with high flow



Patented System Pioneered by Aerobiotix

AeroCure Vac's unique technology is proven to evacuate contaminated air from near the patient and treat it in four stages:

- 1 Prefiltration:** The disposable, one time use, filter drape traps large droplets, with MERV 11 filtration rating. The sterile plastic drape body also protects the semirigid tube from surface contamination and potential patient to patient spreading.
- 2 Carbon-Catalyst Gas Removal:** The AeroCure Vac uses carbon filtration to remove volatile organic compounds from the airstream. Additionally, a metal catalyst is used to reduce dangerous formaldehyde in electro-surgery plume.
- 3 ULPA Filtration:** Utilizes a cleanroom-grade ULPA filter with a minimum 99.995% efficiency for 0.5 micron particles to remove small bioaerosols and smoke particulate.
- 4 Ultraviolet (UV) Germicide:** The AeroCure Vac utilizes a unique patented Internal UV photolytic chamber (IntraViolet) to slow and trap pathogens. The power of UV results in improved pathogen elimination and room safety over ULPA filtration alone.



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5X

The AeroCure Vac flows at 100 cubic feet per minute (CFM), 5X more than 20 CFM for a typical handpiece-based system. This greatly improves removal efficiency with near-silent operation.



Filter Drape

The filter drape is a disposable sterile single use item which is placed over the vacuum tube. The single-use design prevents cross contamination and assures that a new prefilter is used with every procedure.

A Cost-Effective Alternative

Better technologies also need to respect tightening healthcare budgets. The AeroCure Vac single-use filter drape costs 30-50% less than a suction electro-surgical handpiece. Additionally, the extra pre-filtration allows for longer ULPA life, and less frequent filter changes. **The AeroCure Vac allows facilities to meet their surgical smoke management objectives with high compliance and low cost.**

Contact your sales representative today.

Learn more at aerobiotix.com or by emailing info@aerobiotix.com

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