



The adaptable way to eliminate surgical smoke



Surgical Smoke Solution

Researchers have identified more than 80 organic compounds in surgical smoke which contain a wide variety of toxic chemical by-products. The most effective way of protecting operating room staff and patients from inhaling harmful constituents of surgical smoke and aerosol is to use a smoke evacuation system.

The ConMed Surgical Smoke System offers the most dynamic smoke removal solution available to medical staff today. The AER DEFENSE™ Smoke Evacuator and GoldVac™ Smoke Evacuation Pencil provide a highly effective and user-friendly system.



The Clinical Challenge:

Smoke Plume from Lasers, Electrosurgery, Orthopedic, and Ultrasonic Devices may negatively affect the health of surgical team members and their patients. An appropriate surgical smoke evacuation practice is needed to protect the health of the surgical team and patients.

Association of periOperative Registered Nurses (AORN)

"Surgical smoke has been conclusively shown to be hazardous to the health of the surgical team. Equipment and supplies are available to effectively and easily evacuate this plume."

The National Institute for Occupational Safety and Health (NIOSH / CDC)

"General room ventilation is not by itself sufficient to capture contaminants generated at the source. The two major local exhaust ventilation (LEV) approaches used to reduce surgical smoke levels for health care personnel are portable smoke evacuators and room suction systems."

The Occupational Safety and Health Administration (OSHA)

"Each year, an estimated 500,000 workers, including surgeons, nurses, anesthesiologists, and surgical technologists, are exposed to laser or electrosurgical smoke. Surgical plumes have contents similar to other smoke plumes, including carbon monoxide, polyaromatic hydrocarbons, and a variety of trace toxic gases."

ECRI Institute (ECRI)

"Smoke evacuation systems are designed to capture the smoke generated during surgical procedures in which there is thermal destruction of tissue or bone (e.g., laser surgery, electrocautery, electrosurgery)." "If not evacuated, the materials can become airborne and deposit in the respiratory tracts of the surgical team, causing lacrimation, nausea, abdominal cramping and vomiting."

The Solution: AER DEFENSE™ Smoke Evacuation System

The AER DEFENSE™ Smoke Evacuator is ConMed's surgical smoke evacuation system intended to remove smoke, aerosols and noxious odors produced by surgical smoke. It is powered by a dual-stage motor for more efficient suction capabilities with less noise production. The AER DEFENSE™ coupled with the GoldVac™ Smoke Evacuation Pencil provide an exceptional combination to combat the hazards of surgical smoke in your OR.



AER DEFENSE™ Smoke Evacuation System with
GoldVac™ Smoke Evacuation Pencil

AER DEFENSE™ Designed for Versatility in the OR:

- Four specialty modes of operation to offer surgical staff their choice of activation and usage (Automatic, Laparoscopic, Continuous, and Footswitch Activation Modes)
- ULPA grade FilterOne™ with 99.9995% efficiency at 0.1 micron particle size
- FilterOne™ life is calculated by airflow, not time, which provides longer filter life of up to 35 hours
- Quieter than our previous model
 - Instant ESU Activation with other manufacturer's ESUs
 - LED Filter Life Indicator
 - Built-in carrying handle for easy transport
 - 2 year standard warranty, 7 year extended warranty available
 - Small size to fit on cart or boom arm

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The Solution: GoldVac™ Smoke Evacuation Pencil

The GoldVac™ Smoke Evacuation Pencil allows the surgeon to position the smoke elimination tube anywhere along the active electrode. The tube can be positioned near the electrode tip for maximum smoke removal or farther back for maximum accessibility and visibility.

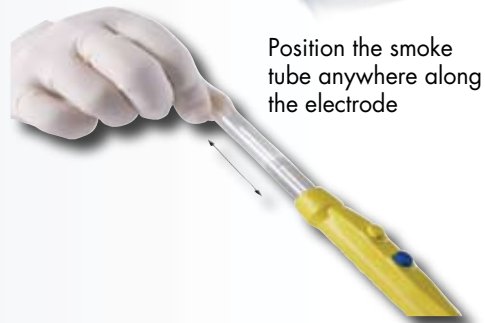
- UltraClean® –silicone coated– electrode
- 4" and 6" extended electrodes are easy to insert into hex hub
- Design provides comparable flow to larger size tubing using smaller diameter, lighter tubing
- Smaller diameter tubing takes up less shelf space
- Adapters available for use with most smoke evacuation systems

GoldVac™: Designed with the Surgeon's Comfort in Mind

- Low profile for ergonomic comfort
- Swivel allows the tubing to rotate for maximum range of motion in wrist
- Extendable smoke tube to 6"
- Plastic drape clip to attach to drape



Y-Connector allows the pencil cord to be housed inside the tubing eliminating clutter at the surgical site



Smoke Plume Accessories

GoldVac® UltraClean™ Electrodes

For those hard-to-reach areas. Simply insert the extended electrode into the GoldVac® Smoke Evacuation Pencil.



ClearVac® Smoke Pencil

Smoke attachment and tubing connects directly to ConMed GoldLine® ElectroSurgical Pencils.



Laparoscopic Tubing

Easily evacuate smoke in laparoscopic procedures with ConMed lap tubing.

Adapters

Variety of adapters for use with most smoke evacuation systems, to reduce tubing size or to connect two accessories to the ConMed AER DEFENSE™ unit.



Solution
Smoke-Free OR

Smoke Solution Ordering Information

| Catalog Number | Description | Case Quantity |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------|
| AER DEFENSE™ Smoke Evacuator and Accessories | | |
| 60-8080-120 | AER DEFENSE™ Smoke Evacuator—100/120V Includes AC Power Cord, 4' ESU Activation Cord, and Operator's Manual—Filters sold separately | 1 each |
| 60-8080-230 | AER DEFENSE™ Smoke Evacuator—220/240V Includes 4' ESU Activation Cord—Filters sold separately | 1 each |
| 60-8084-001 | AER DEFENSE™ FilterOne™ | 2/case, 1/pkg |
| 60-8083-001 | AER DEFENSE™ Pneumatic Footswitch | 1 each |
| 62-5626-005 | AER DEFENSE™ 10' ESU Activation Cable | 1 each |
| 62-5626-004 | AER DEFENSE™ 4' ESU Activation Cable | 1 each |
| 62-5862-001 | AER DEFENSE™ AC Power Cord, 15' | 1 each |
| GoldVac™ Smoke Evacuation Pencil | | |
| 60-7510-005 | GoldVac™ Pencil, Push Button, 1" UltraClean® Blade Electrode, 10' of 11mm tubing, Disposable | 10/case, 1/pkg |
| 60-7520-005 | GoldVac™ Pencil, Rocker Switch, 1" UltraClean® Blade Electrode, 10' of 11mm tubing, Disposable | 10/case, 1/pkg |
| 60-7530-005 | GoldVac™ Pencil, Footswitch, 1" UltraClean® Blade Electrode, 10' of 11mm tubing, Disposable | 10/case, 1/pkg |
| 60-7570-005 | GoldVac™ Pencil, Push Button, 1" UltraClean® Blade Electrode, 15' of 11mm tubing, Disposable | 10/case, 1/pkg |
| 60-7580-005 | GoldVac™ Pencil, Rocker Switch, 1" UltraClean® Blade Electrode, 15' of 11mm tubing, Disposable | 10/case, 1/pkg |
| 60-7521-001 | 1" GoldVac™ UltraClean® Blade with Extended Insulation, Disposable | 25/case, 1/pkg |
| 60-7522-001 | 4" GoldVac™ UltraClean® Blade with Extended Insulation, Disposable | 25/case, 1/pkg |
| 60-7523-001 | 6" GoldVac™ UltraClean® Blade with Extended Insulation, Disposable | 25/case, 1/pkg |
| 60-7524-001 | 4" GoldVac™ UltraClean® Blade, Disposable | 25/case, 1/pkg |
| 60-7526-001 | 6" GoldVac™ UltraClean® Blade, Disposable | 25/case, 1/pkg |
| ClearVac® Smoke Evacuation Pencil | | |
| 60-6828-005A | ClearVac® Pencil, Push Button, 1" UltraClean® Blade Electrode, 4' of 10mm tubing and 6' of 22mm tubing, Disposable | 10/case, 1/pkg |
| 60-6829-005A | ClearVac® Pencil, Rocker Switch, 1" UltraClean® Blade Electrode, 4' of 10mm tubing and 6' of 22mm tubing, Disposable | 10/case, 1/pkg |
| 60-6828-001A | ClearVac® Pencil, Push Button, 1" Standard Blade Electrode, 4' of 10mm tubing and 6' of 22mm tubing, Disposable | 10/case, 1/pkg |
| 60-6829-001A | ClearVac® Pencil, Rocker Switch, 1" Standard Blade Electrode, 4' of 10mm tubing and 6' of 22mm tubing, Disposable | 10/case, 1/pkg |
| 138663A | ClearVac® Pencil, Footswitch, 1" UltraClean® Blade Electrode, 4' of 10mm tubing and 6' of 22mm tubing, Disposable | 10/case, 1/pkg |
| 60-6839-001A | ClearVac® Handpiece Attachment, 4' of 10mm tubing and 6' of 22mm tubing, Disposable | 10/case, 1/pkg |
| Smoke Plume Accessories | | |
| 60-7507-001 | Adapter, For Use with Valleylab Prefilter and Buffalo Filter, Disposable | 12/case |
| 60-7508-001 | Adapter, For Use with IC Medical Liquid Trap, Reusable | 1 each |
| 60-7509-001 | Adapter, For Use with Stryker Neptune 2 Filter, Disposable | 12/case |
| 60-6840-001 | Reducer Adapter, 7/8" 1/4", Disposable | 12/case |
| 60-6841-001 | Reducer Adapter, 1 3/8" to 7/8", Disposable | 5/case |
| 60-8054-001 | Y-Adapter for GoldVac™ and ClearVac® Smoke Pencils, Disposable | 5/case |
| 60-8041-001 | System 5000™ Mobile Pedestal Saddlebag Lower Basket for AER DEFENSE™ and System 1200™ Smoke Evacuators Units | 1 each |
| 60-8056-001 | Vacuum Control Assembly for AER DEFENSE™ and System 1200™ Smoke Evacuators Units | 1 each |
| 60-6810-001 | Laparoscopic Smoke Evacuation Tubing Set, 10' (1/4" diameter), Disposable | 5/case, 1/pkg |
| 60-6805-001 | Hand-held Smoke Evacuation Tubing, 6' (7/8" diameter), Disposable | 5/case, 1/pkg |

CONMED CORPORATION PRODUCT AREAS:

ARTHROSCOPY • ELECTROSURGERY • ENDOSCOPY • ENDOSURGERY • GASTROENTEROLOGY • INTEGRATED SYSTEMS • PATIENT CARE • POWERED INSTRUMENTS • PULMONOLOGY



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Please contact your local ConMed Territory Manager for information on our full line of surgical smoke evacuation products and accredited Smoke Continuing Education Programs.