

Ordering Information

Crystal Vision Model 450-D



Specifications Model 450-D

Size:	7.25" H x 14.0" W x 15.0" D
Weight:	Less than 8 kilograms
Power Requirements:	100-240 V.A.C, single phase, 5060 Hz, 2.5 a
Flow Rate:	High Flow Range: 25-100 Liters/Minute \pm 10% Low Flow Range: used in Laparoscopic and Endoscopic procedures 3.5 - 18 Liters/Minute \pm 10%
Activation Method:	ESU Sensor, Laser Footswitch Sensor, and Manual Switch

Catalog Number	Descriptions
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Plume Evacuator

ICM-450-0000	MODEL 450-D: Two-in-One unit activates with either laser or ESU sensor: For ALL surgical procedures. Built-in safety and preserve peritoneum for laparoscopic/endoscopic procedures
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Filters

ICM-000-0014	ULPA Filter with water trap – Input Filter
ICM-000-0025	Charcoal Output Filter

Sensors

ICM-000-0009	ESU Sensor (Electrocautery with cable)
ICM-000-0018	Laser Foot Pedal Sensor with cable

PenEvac1 - Multifunctional Plume Evacuation Pencil with Telescopic Electrodes

ICM-000-0450	PenEvac1 Telescopic Plume Evacuation Pencil with Stainless Steel Blade, 9 Foot Tube and Holster
ICM-000-0458	PenEvac1 Telescopic Plume Evacuation Pencil with EZ Clean Coated Blade, 9 Foot Tube and Holster

PenEvac1 - Non Telescopic Plume Evacuation Pencil

ICM-000-0496	PenEvac1 Non-Telescopic Plume Evacuation Pencil with Stainless Steel Blade, 9 Foot Tube and Holster
ICM-000-0514	PenEvac1 Non-Telescopic Plume Evacuation Pencil with EZ Clean Coated Blade, 9 Foot Tube and Holster

Tubing Sets

ICM-000-0003	Laparoscopic Plume Collection Tubing
ICM-000-0027	Speculum Plume Collection Tubing
ICM-000-0075	Plume Colleciton Wand with Complete Plume Collection Tubing set with connector



Custom configurations are available. Caution - always holster ESU pencils or the PenEvac™ when not in use.



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Automatic Plume Evacuation System

CRYSTAL VISION ADVANTAGES DURING OPEN PROCEDURES

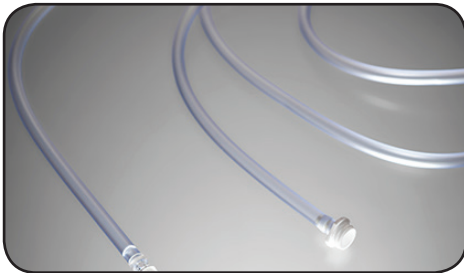
- “Hands free plume evacuation!” Electrocautery pencil slips into the plume evacuator shroud or the PenEvac. Both are conveniently held in one hand by the surgeon. The evacuator is ALWAYS where it needs to be for complete elimination of contaminated plume from the O.R.
- ULPA filtration and sensors that detect when the filter is full. The operator is alerted, and if the filter is not changed in a few minutes, the pump stops. Prevents plume particles from infiltrating the operating room.
- Front panel automatically illuminates when room lights are turned down. Controls red in “high flow” and green in “low flow.”
- Disposable pencil and choice of tip length provides the surgeon with control and confidence regarding the depth of the incision.



The PenEvac is a patented integrated Electrocautery Pencil with plume evacuation.

The PenEvac electrode and plume collection nozzle can be adjusted by the surgeon to any length between 1.5” and 6.5”. This eliminated the need for replacing different length electrodes and plume collection nozzles during surgery. It has the highest airborne particle reduction when compared by an independent test to any other plume collection device.

Unique Solutions for all procedures

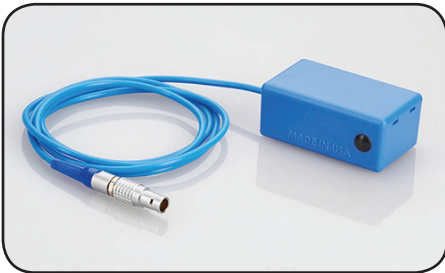


Inter Abdominal Tubing

Inter Abdominal Tubing is used with the Crystal Vision 450D during laparoscopic procedures to help improve the OR team’s vision during surgery. The use of Inter Abdominal Tubing also keeps the patient from absorbing plume produced during a closed procedure

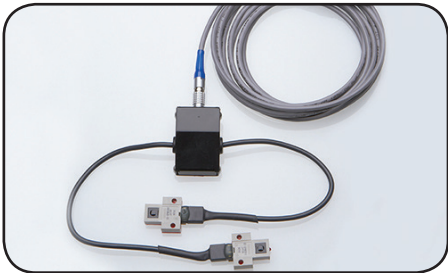


Speculum tubing available, sterile, and non-sterile. Laparoscopic Tubing is sterile, disposable 1/4” x 10’.



Sensor Plume Evacuator Assembly

The patented sensor plume evacuator assembly is compatible with any surgical laser system or electrosurgery system.



Input Filter Pack

The Input Filter Pack makes filter replacement quick, easy and convenient. Each filter pack contains a prefitter, ULPA filter and a fluid trap. The ULPA filter will trap 0.1 micron viral and bacterial particles. The filter pack can be reused.



Charcoal Filter

The Output Charcoal Filter is reusable and used for preventing aerosol, vapor and moisture droplet odors. In addition, the charcoal filter will trap bacterial, viral, plume, dust particles and odors. Filters will last 3 months.



CRYSTAL VISION ADVANTAGES DURING LAPAROSCOPIC PROCEDURES

- Pneumoperitoneal pressure is constantly monitored and the Crystal Vision automatically starts pumping to lower potentially dangerous pressure levels.
- Lap Mode is unique to Crystal Vision. It is easily adjusted to match the “in-flow” rate of the insufflator. This feature helps maintain the pneumoperitoneal pressure and the surgeon can concentrate on the surgery.
- Pump stops automatically if tissue is accidentally suctioned and minimizes the potential of trauma to the tissue.
- Plume is not allowed to flow back into the patient. Therefore, clean CO2 gas is used to maintain the pneumoperitoneum.
- Manual activation of the Crystal Vision at the end of the procedure eliminates the need for the surgeon to push on the patient’s abdomen. Intraabdominal gases are removed and the Crystal Vision automatically turns off.