

New IES 3 smoke evacuation system:

## **CLEAN AIR IN THE OR**

Surgical smoke from laser, ultrasonic or electrosurgical systems contains potentially hazardous substances.

These constituents can have a negative affect on the health of the OR personnel and the patient. For example, a scientific study has demonstrated that the electrosurgical vaporization of 1 g of tissue produces as much smoke as 3-6 cigarettes<sup>1</sup>.

Electrosurgery is a must in any OR - surgical smoke is not.

The new IES 3 smoke evacuation system from Erbe Elektromedizin significantly reduces these harmful substances and keeps the air in the operating room, outpatient facilities or medical practices clean. With evacuation directly above the source, 98.6% of the smoke is eliminated.

One core component of the 5-stage main filter cartridge is the ULPA-15 filter which removes 99.995 % of all 0.1 µm particles.<sup>3</sup> It offers the best possible safety. The active carbon barrier in the main filter reduces odors. A face mask alone, would let too many particles pass through.

In this smoke-minimized working environment, the entire surgical team and the patient are protected as best possible against health risks.<sup>2,4,5</sup> The user always

has a good view of the surgical field and of the surgical site itself.

The IES 3 offers good responsiveness and, with the newly developed bi-turbo technology, evacuates smoke quickly and effectively within a very short space of time. Compared to other systems, the IES 3 is extremely quiet.<sup>6</sup>

For clinical use, the user has available a powerful total package with extensive accessories for Erbe smoke evacuation: special electrosurgical pencils with evacuation or clip-on versions complement the IES 3. It can be used in any surgical discipline, for open surgery or laparoscopy. Either as a stand-alone unit or in combination with an Erbe VIO® electrosurgical workstation.

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#### References

- 1 Karsai S et al: Smoking guns: hazards generated by laser and electrocautery smoke. *J Dtsch Dermatol Ges.* 2012 Sep;10(9): 633-6.
- 2 Schultz L: Can efficient smoke evacuation limit aerosolization of bacteria? *AORN J.* 2015 Jul; 102(1):7-14.
- 3 Internal data: D158650
- 4 Sanderson C: Surgical smoke. *J Perioper Pract.* 2012 Apr; 22(4):122-8
- 5 Certificate on file: D135273
- 6 Internal data: D130333

1. [www.medical-videos.com](http://www.medical-videos.com)
2. [smoke.erbe-med.com](http://smoke.erbe-med.com)

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The IES 3 integrated in the VIO® workstation...



...or positioned horizontally or vertically as stand-alone unit.

