

## IES 2

Intelligent Smoke Evacuation with IES 2 –  
reduces viruses and bacteria in the OR



# IES 2

## The effective, clever, individually programmable smoke evacuation system



*Effective evacuation directly at the surgical site*

When cutting and coagulating tissue during electrosurgical procedures, particles of smoke are released that reduce the visibility of the surgical site and impair the room's air. In some cases there is a risk of virus and bacteria dispersion (see literature). The particle concentration is significantly reduced by smoke evacuation with the Erbe IES 2.

In some countries, systems like the IES 2 are already prescribed by professional associations, as well as occupational health and safety regulations.

You too can enjoy the benefits of clean air in the OR.

### THE BENEFITS OF IES 2 AT A GLANCE

- ✔ High suction capacity
- ✔ Suction programs can be assigned to any active VIO socket and any instrument
- ✔ Manual activation, using footswitch or automatically / synchronous for electrosurgical application
- ✔ Optimized evacuation accessories for individual applications
- ✔ VIO system connection via the Erbe Communication Bus (ECB)
- ✔ High cost-efficiency through long filter operating time

### Smoke evacuation aligned to the electrosurgery system

The IES 2 is connected interactively to the VIO system. Suction automatically adjusts to the electrosurgical activation and thus to the generation of smoke. Moreover, the suction parameters can be programmed for the CUT and COAG modes, as well as for the basic suction and run-on time. So you have optimal smoke evacuation in the OR at all times.

Besides the version integrated in the system, the IES 2 (Intelligent Evacuation System) is also available as a standalone unit for other electrosurgery units or laser systems.



## Clever in its ease of use, effective in evacuation

The IES 2 is operated via the central VIO display. Four values can be configured for CUT and COAG suction, as well as basic suction and run-on time. So you can assign individual suction parameters to every instrument and electro-surgical function. Suction then only switches on when it is required. Power-regulated, just as you need it. Furthermore, the IES 2 offers other setting options, such as blocked suction detection.

With the IES 2 you can save your personal programs with suction parameters optimized for each application. A multitude of freely assignable program settings are available for this purpose. Automatic smoke evacuation is either simultaneous with the electro-surgery activation or can be initiated directly via the IES footswitch – with a defined run-on time.



### References and Literature

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# Technical data

## and accessories

### Technical specifications

Nominal supply voltage	230 V ± 10%
Nominal supply frequency	50 / 60 Hz
Current consumption	3 A at 230 V
Power consumption	410 watts
Potential equalization connection	yes
Suction capacity, system with new filter	>550 L/min (10322-000), >450 L/min (10322-120)
Filter performance data	ULPA, retention = 99.9995% at 0.12 µm; DIN EN 1822 filter class U15
Width x Height x Depth	205 x 260 x 404 mm (without main filter)
Weight	10.7 kg (with main filter)
Classification in accordance with EU directive 93/42/EEC	I
Protection class in accordance with EN 60 601-1	I
Type according to EN 60 601-1	CF

### Accessories

IES 2 Smoke Evacuation System (nominal voltage supply 230 V)	10322-000
IES 2 Smoke Evacuation System (nominal voltage supply 100/120 V)	10322-120
Filter cartridge	20321-000
One-pedal footswitch AP & IP X8 equipment	20322-101
Prefilter for smoke evacuation systems, sterile, single-use	20321-022
Evacuation tube for optimized streaming, reusable	20321-004
Adapter 22 mm – 22 mm, reusable	20321-005
Clip-on handle for Slim-Line electro-surgical pencils, short tip 12 mm, sterile, single-use	20321-007
Electro-surgical pencil, sterile, single-use	20321-028
Suction hose, Ø 22 mm, L 2.7 m, reusable	20321-009
Evacuation funnel, connection 22 mm, reusable	20321-010
Suction hose, Ø 22 mm, L 2.1 m, reusable	20321-012
Tube holding arm with 3 joints	20321-014
Clip-on handle for Slim-Line electro-surgical pencils, long tip 100 mm, sterile, single-use	20321-020
Power cord 0.35 m, black	51704-033
Fastening set IES 2, to VIO Cart	20180-132

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