

OPERATING ROOM



SafeAir Smoke Pencil

Diathermy pencil
with integrated
smoke evacuation



 SafeAir™
Surgery without smoke

Smoke is in the air. And it's dangerous

We don't allow smoking in hospitals. But the smoke emanating from electrosurgery is as unhealthy as smoking cigarettes.

Moreover, it contains biological material that may cause serious health problems.



**Thermal
destruction of
1 g of tissue
=
smoking six
cigarettes***



**Biological
material
=
risk of
infection**

Surgical smoke...

- Chemicals with a mutagenic and carcinogenic potential similar to that of cigarette smoke
- Viable and non-viable biological material – for example, cells, bacteria and viruses bearing the risk of infection and transmitting diseases
- Lung damaging dust penetrating the respiratory tract causing acute and chronic inflammatory changes

Surgical smoke travels from the surgical site and spreads in the OR.

Risks from exposure to surgical smoke are cumulative.

... and its potential of harmful effects

Health risks related to surgical smoke*

- Acute and chronic inflammatory changes to the respiratory tract (emphysema, asthma, chronic bronchitis)
- Hypoxia/dizziness, light headedness, headache, eye irritation, sneezing, nausea
- Cardiovascular dysfunction, dermatitis, anxiety, anaemia, carcinoma, leukaemia
- HIV, Hepatitis

Solution?

- Surgical masks: Provide little or no protection for staff as surgical smoke travels through
- General OR ventilation: Provides too low air exchange to remove smoke before it affects people in the OR
- Smoke wand/wall suction: Too low for most energy based surgical procedures

Surgical smoke must be evacuated at the source.



SafeAir Smoke Pencil. A state-of-the-art diathermy pencil ...

Precise handling

- Slim design
- Light flexible tubing allows axial rotation and follows the hand of the surgeon
- Fully integrated cable inside the tubing



Suitable for wide range of surgeries

- Compatible with a wide range of electrodes



... with effe



Smoke suction through transparent suction tip for clear vision at surgical site.



Active smoke evacuation at source



Selection of four lengths of suction tips available.



Adjust the position of the suction tip by sliding or twisting it closer to or away from the electrode tip as desired.



Optional liquid suction
Dual connector fits 22mm filter nozzle and 8mm inlet of a liquid collection bottle.

Order the SafeAir Smoke Pencil

Ordering information

PENCIL

SHK-VS	SafeAir Smoke Pencil - Push button - Uncoated 70mm blade electrode	Box of 10
SHK-VS-C	SafeAir Smoke Pencil - Push button - Coated 70mm blade electrode	Box of 10

SUCTION TIPS

SHK-EST-0070	SafeAir Smoke Pencils Extension Suction Tip 70 mm long	Box of 10
SHK-EST-0125	SafeAir Smoke Pencils Extension Suction Tip 125 mm long	Box of 10
SHK-EST-0165	SafeAir Smoke Pencils Extension Suction Tip 165 mm long	Box of 10
SHK-EST-0200	SafeAir Smoke Pencils Extension Suction Tip 200 mm long	Box of 10



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CE marked by



SafeAir Smoke Pencil

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