



marVac®

The innovative system for
efficient smoke evacuation



Enhanced visibility and maximum safety at the operating site – surgical smoke is a trouble of the past!

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KLS Martin has a huge expertise in laser- and electrosurgery. With the innovative smoke evacuation system marVac®, KLS Martin is setting a new standard in the evacuation of surgical smoke.

In the recent years the demand for devices with the possibility to extract the smoke directly from the OR field has grown. The smoke evacuator marVac® in combination with our innovative high-frequency generators are reliable partners in your operating theatre.

Convince yourself!

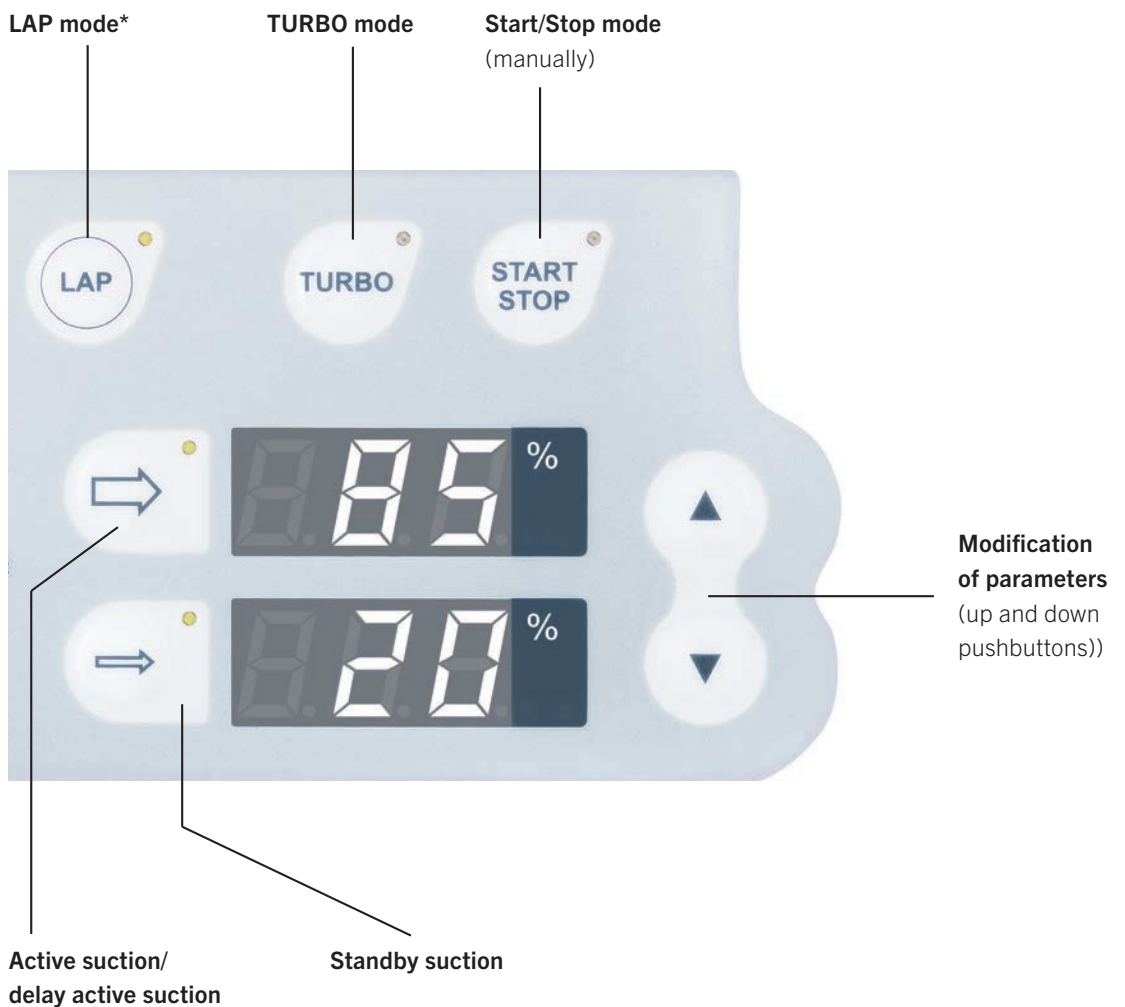
The advantages at a glance

- Simultaneous evacuation to high-frequency activation
- Individual parameters can be memorized in the user program of the maXium®
- Extended filter-capacity due to special filter technology
- Two suction hoses can be connected, each individually or simultaneously
- TURBO mode
- LAP mode
- Obstruction control
- Connection to central suction device possible

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Easy selection and adjustment of parameters

Surgical smoke obscures the view of the surgical field. The marVac® reduces smoke gases and offers an optimal view of the surgical site.





TURBO Mode

Huge quantity of smoke can be eliminated effectively from the OR field.



LAP Mode*

Specially designed for laparoscopic procedures; suction parameters will be automatically limited and the reflux of gas will be reduced to a minimum.



START/STOP

Alternatively, the smoke evacuator can also be activated manually.



Active suction / standby suction

Active suction, stand-by suction and delay time can be selected as required before and during the surgical procedure. These parameters can be easily adjusted by pressing the up and down buttons.

Modification of parameters

(up and down pushbuttons)

* only when ordering marVac® with LAP mode

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Changeable main filter unit

The specially designed filter system which corresponds to **ULPA*** standard provides safe and effective protection in the operating theatre. The large inner-filter-surface provides a long-lasting lifetime.

The main filter unit provides two different connections. Suction tubes with Ø 22 mm as well as with Ø 10 mm can be connected individually or simultaneously.

The filter status is permanently displayed and a necessary change of the main filter is indicated on the indicator in time.

If required, the smoke evacuator can be connected to a central-OR-suction system. This optional feature can be ordered on request.



* ULPA = Ultra Low Penetration Air

marVac® maXium®

The HF-generator as well as the smoke evacuation system can be positioned on a specially designed trolley. Alternatively, the system can be placed on a pendant.



User-friendly set-up of parameters via MCB (=Martin-Communication-Bus)

The parameters for the marVac® can be selected and adjusted through the HF generator maXium® and memorized in the user-program.*

* Please consider that maXium® HW06 and software V3.398 are required.

Ordering information for Smoke evacuation system **marVac®** and accessories

Technical specifications	
Power supply	100 - 240 V ± 10%; 50/60 Hz
Appliance air flow	> 750 l/min
Power input	220 - 240 V, max. 900 VA; 100 V, 110 V, 120 V, 127 V, max. 600 VA
Activation	Automatic activation, front-panel button, optionally by foot switch Mains current detection (adapter)
Interfaces	Foot switch, MCB (Martin Communication Bus), USB
Main filter	ULPA efficient 99.9995% @ 0.1 - 0.2 µm for tube size Ø 22 mm and Ø 10 mm
Filter lifetime	40 hours. Filter change will be indicated at the unit
Weight	Smoke evacuation system marVac®, 220 - 240 V, 10.9 kg Smoke evacuation system marVac® with LAP mode, 220 - 240 V, 11.9 kg Smoke evacuation system marVac®, 100 V / 110 V / 120 V / 127 V, 12.9 kg Smoke evacuation system marVac® with LAP mode, 100 V / 110 V / 120 V / 127 V, 13.9 kg
EMI	Keeps limits according to EN 55011 and IEC 60601-1-2, immunity according to IEC 801
Dimensions	Width 390 mm Height 218 mm Depth 460 mm (with main filter)

Item No.	Product description
80-060-00-04	Smoke evacuation system marVac® with LAP-Mode , 220 V incl. main filter unit (item 80-060-01-04)
80-060-00-10	Smoke evacuation system marVac® with LAP-Mode , 100 V incl. main filter unit (item 80-060-01-04)
80-061-01-04	Smoke evacuation system marVac®, 220 V incl. main filter unit (item 80-060-01-04)
80-061-01-10	Smoke evacuation system marVac®, 100 V incl. main filter unit (item 80-060-01-04)

Item No.	Individual components
80-060-01-04	Main filter unit for smoke evacuator maxium® smart Vac (ULPA standard)
80-811-50-04	Single-pedal foot switch for manual activation
80-060-06-04	Adapter for connection to a central suction (Ø 22 mm)

Item No.	Connection options for automatic operation (HF generator or laser)
80-091-01-04	MCB connection cable (maXium® and marVac®)
80-060-05-04	Adapter for mains current detection
76-100-60-04	Extension cable for smoke evacuation with laser
80-091-02-04	Connection cable ME MB2/3 with marVac®

Item No.	Accessories and consumables
80-060-04-04	Air hose, sterile, Ø 10 mm with Luer-Lock connection, 2.5 m long, (e.g. for connection of trocar) (packaging unit = 20 pieces)
79-225-11-04	Prefilter (HEPA standard), Ø 22 mm, sterile, single-use (packaging unit = 20 pieces)

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