

ENDOFLATOR® +

For Transanal Surgery



ENDOFLATOR® +

With Custom Modes for Advanced Insufflation in Transanal Surgeries

Transanal procedures demand stability in a highly dynamic environment. The ENDOFLATOR® + is designed to meet the specific challenges of Transanal Endoscopic Operations (TEO®) and Transanal Total Mesorectal Excision (TaTME) procedures, ensuring a consistently stable cavity while addressing the billowing effect. With dedicated modes for transanal surgery, you can expect enhanced control, visibility, and efficiency.

Core Benefits

- 1 Stable cavity
- 2 Integrated smoke evacuation
- 3 > 99.9995% filtration
- 4 Desufflation
- 5 Additional features for the TEO® mode



Core Benefits

1 Stable cavity

With dedicated proctology modes (TEO[®] and TaTME), the ENDOFLATOR[®] + ensures a stable cavity for improved visibility and control during surgical procedures. It is designed to deliver optimal performance even at lower intra-abdominal pressures, enhancing patient comfort without compromising surgical outcomes.

Studies indicate that low-pressure surgery offers a gentler approach for your patients by reducing postoperative pain and the need for analgesics, contributing to faster recovery and shorter hospital stays¹.

2 Integrated smoke evacuation

The ENDOFLATOR[®] + features an integrated smoke evacuation that ensures removal of the smoke from the surgical cavity and improves visibility, enhancing the overall efficiency of the procedure and safety of your OR staff.

HF Device Mode

HF Device Mode automatically activates the smoke evacuation when a compatible HF device is connected to the ENDOFLATOR[®] +. You can also set an adjustable response time, ensuring smoke evacuation continues for a set period after each activation to optimize smoke removal and to control gas usage. With four intensity levels (1-4), you have the flexibility to adapt it to your surgical requirements, from gentle to maximum strength.

Continuous Mode

Continuous Mode offers constant smoke evacuation. You can also select an intensity level (from 1-4) as per your surgical requirements.

Designed With the Future in Mind

On the horizon: We are paving the way towards AI and software driven growth.

3 > 99.9995% filtration of harmful particles with ULPA filter

Research indicates that surgical smoke can lead to both acute and chronic inflammatory challenges, such as alveolar congestion, interstitial pneumonia, bronchiolitis, and emphysematous alterations in the respiratory tract². To mitigate these risks, our tubing sets are equipped with ULPA filters that capture > 99.9995% of harmful particles and active carbon, providing a safer environment for both patients and the operating room team.

4 Desufflation

The ENDOFLATOR[®] + features a new desufflation capability when used with the smoke evacuation tubing set. This ensures safe, filtered, and controlled evacuation of gas from the cavity at the end of the procedure.

5 Additional features for the TEO[®] mode

The new insufflator delivers heated and humidified gas, enabling you to enhance your experience with specialized tubing sets, ensuring optimal care for every patient.

Heated Insufflation

The new ENDOFLATOR[®] + preheats the insufflated gas to approximate body temperature. When the appropriate tubing set is connected, the system automatically detects and activates the heating function, and the target temperature is reached within minutes. The use of heated CO₂ during insufflation has been associated with reduced postoperative pain, including lower shoulder-tip pain and decreased need for opioid pain relievers³.

(Not available in TaTME mode)

Humidified Insufflation

The new ENDOFLATOR[®] + humidifies the insufflated gas through a specialized tubing set. Humidified CO₂ insufflation has been shown to lower postoperative pain scores and reduce the need for pain medication compared to dry gas.^{3,4}

(Not available in TaTME mode)

Build your chain

ENDOFLATOR® +

The new ENDOFLATOR® + offers a versatile solution combining insufflation, smoke evacuation, heated and humidified gas, and desufflation to meet your needs in the OR.

Select mode ⚙️

High Flow	Pediatrics
TEO Transanal Endoscopic Operation	taTME Transanal Total Mesorectal Excision
EVH Endoscopic Vessel Harvesting	



Build your chain

TEO® platform

TEO® Operating Rectoscope Tube, with a 40 mm outer diameter, handle for holding system, LUER-Lock connector for vapor evacuation, and three different working lengths, i.e., 7.5 cm, 15 cm, 20 cm



B-port

Flexible sealing cap that allows increased freedom of movement while maintaining a secure seal. Compatible with all TEO® tube sizes and supports instruments from 3.5 mm to 15 mm. Also suitable for TaTME procedures.



Build your chain

Custom tubing options

The ENDOFLATOR® + works with five single-use tubing sets, each designed to meet a variety of surgical needs.

UI610:

Enables standard CO₂ insufflation from low to high flow rates.

UI611:

Provides heated CO₂ insufflation to body temperature.
(Not available for TaTME)

UI612:

Integrates insufflation and smoke evacuation.

UI613:

Integrates insufflation, heating and smoke evacuation.
(Not available for TaTME)

UI614:

All-in-one tubing set with insufflation, heating, smoke evacuation, and humidification.
(Not available for TaTME)

Holding system

Our holding system securely fixes the scope in the TEO® attachment, eliminating the need for manual support. Mounted directly to your OR table, it allows for a stable setup and a comfortable seated position for the surgeon.

Recommended holding arm setup: [28272HD](#) + [28172HR](#)

28272HD



28172HR



Build your chain

Camera stack

The ENDOFLATOR® + and our transanal platforms are compatible with most camera systems on the market, giving you flexibility in setup. For optimized performance, explore our recommended KARL STORZ imaging solutions below.

Instruments

Our transanal platforms are compatible with all standard laparoscopic instruments and staplers, giving you the freedom to work with your preferred tools. For optimized performance, KARL STORZ offers dedicated TEO® instruments designed for precision and control.

25370KG – Dissection Hook Electrode



25351MG – CLICKLINE Dissecting and Grasping Forceps



25140PO – KOH Macro Needle Holder





ENDOFLATOR® +

For Advanced Insufflation

We are committed to providing surgeons with the most advanced and reliable insufflation technology. Our new ENDOFLATOR® + offers:

- Stable cavity for multiple modes
- Integrated smoke evacuation and desufflation
- Heated and humidified gas
- Designed with the future in mind



Learn more at
www.karlstorz.com

- 1 Celarier S, Monziols S, Célérier B, Assenat V, Carles P, Napolitano G, Laclau-Lacrouts M, Rullier E, Ouattara A, Denost Q. Low-pressure versus standard pressure laparoscopic colorectal surgery (PAROS trial): a phase III randomized controlled trial. *Br J Surg.* 2021 Aug 19;108(8):998-1005. doi: 10.1093/bjs/znab069. PMID: 33755088.
- 2 Barrett, William L., and Shawn M. Garber. 2003. "Surgical Smoke: A Review of the Literature." *Surgical Endoscopy* 17 (6): 979–987. <https://doi.org/10.1007/s00464-002-8584-5>.
- 3 Herrmann A, De Wilde RL. Insufflation with humidified and heated carbon dioxide in short-term laparoscopy: a double-blinded randomized controlled trial. *Biomed Res Int.* 2015;2015:412618. doi: 10.1155/2015/412618. Epub 2015 Jan 28. PMID: 25722977; PMCID: PMC4324813.
- 4 Breuer M, Wittenborn J, Rossaint R, Van Waesberghe J, Kowark A, Mathei D, Keszei A, Tchaikovski S, Zeppernick M, Zeppernick F, Stickeler E, Zoremba N, Meinhold-Heerlein I, Bruells C. Warm and humidified insufflation gas during gynecologic laparoscopic surgery reduces postoperative pain in predisposed patients—a randomized, controlled multi-arm trial. *Surg Endosc.* 2022 Jun;36(6):4154–4170. doi: 10.1007/s00464-021-08742-1. Epub 2021 Oct 1. PMID: 34596747; PMCID: PMC9085687.

General Product Reference:

It is recommended to check the suitability of the product for the intended procedure prior to use. Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.



The Health of People Is Our Daily Motivation

Together with leading physicians, universities, and research institutes, we identify and shape trends to translate them into cutting-edge solutions designed for the most challenging surgical procedures and conditions worldwide.



Learn more at
www.karlstorz.com

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