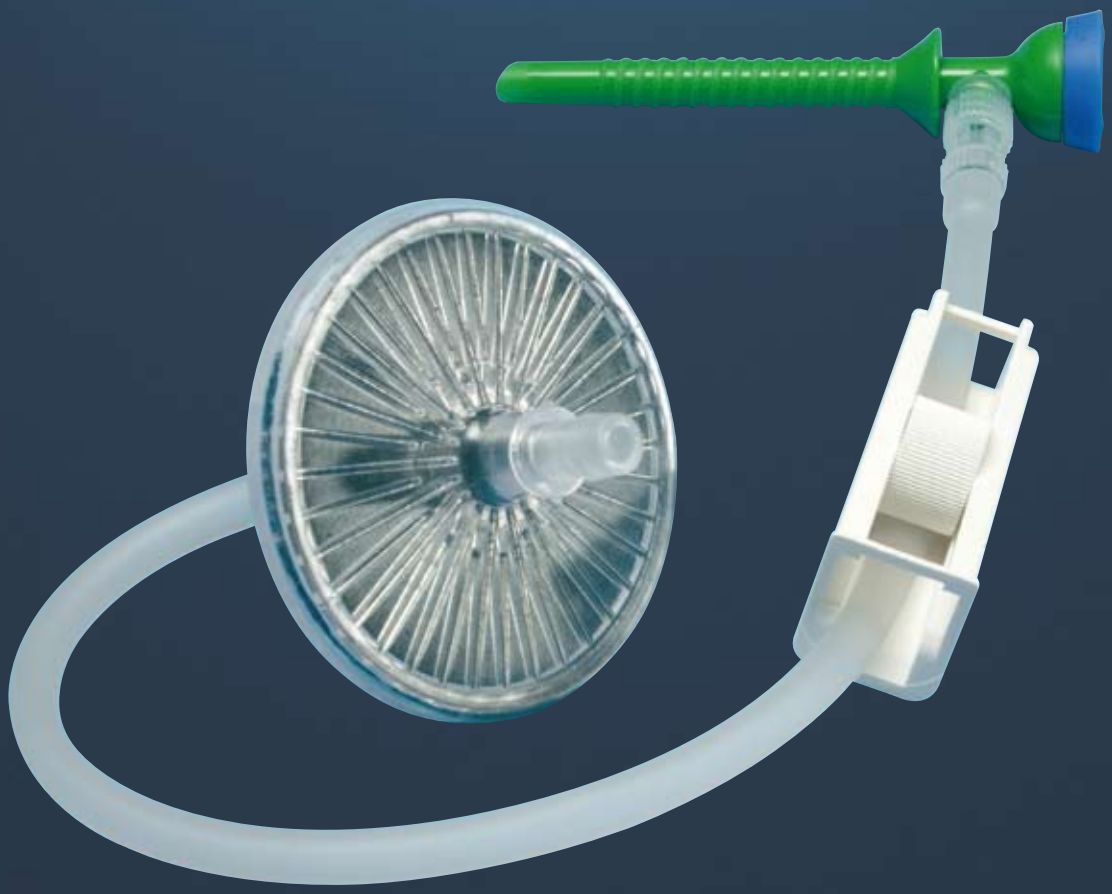
LiNA **LapGuard**

Laparoscopic Smoke Filtration System

safe

functional



LiNA **LapGuard Smoke Filtration System**

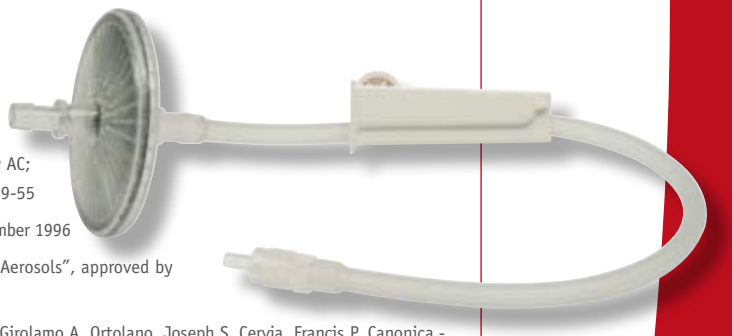
safety

Clean air in the operating room

Several studies confirm that electrosurgical smoke affects the health of both staff and patients and reports indicate that headache, nausea and upper respiratory irritation are amongst the most common issues[1].

The smoke consists of carbonized tissue, blood, viral particles, DNA, bacteria, carbon dioxide, toxic gases and water and these airborne particles are small enough to penetrate deep into the respiratory tract[2].

As standard surgical masks cannot effectively filter these particles, smoke evacuation has become a topic of immediate importance. National nurse associations and authorities including AORN and NIOSH recommend that smoke should be removed using smoke evacuators [3, 4]. In addition, during laparoscopic surgery, surgical smoke will impair visibility in the peritoneum. Hence smoke should be evacuated and filtered[5].



[1] "Surgical smoke-a review of the literature" - Barrett WL, Garber SM - Business Briefing: Global Surgery. 2004;1-7

[2] "Electrosurgery smoke: hazards and protection" - O'Grady KF; Easty AC; Toronto Hospital, Ontario, Canada - J Clin Eng. 1996 Mar-Apr;21(2):149-55

[3] "Hazard control 11 (HC11)" - NIOSH - Publication no. 96-128 - September 1996

[4] "AORN Position Statement - Statement on Surgical Smoke and Bio-Aerosols", approved by House of Delegates, Anaheim, CA. April 2008

[5] "Surgical Smoke - A concern for infection control practitioners" - Girolamo A. Ortolano, Joseph S. Cervia, Francis P. Canonica - Managing Infection Control, August 2009 (k8-54)

functionality

Remove smoke and odors

With ULPA filter with active carbon, LiNA LapGuard offers evacuation and filtration of electrosurgical smoke during laparoscopic procedures. By using LiNA LapGuard the patient's and staff's exposure to potentially harmful smoke is minimised.

Improved visibility

A better view of the surgical site is secured resulting in a more efficient procedure.

Easy to use

Attach the luer lock connector to a trocar system with gasport. During extensive use of electrosurgery the roller clamp may be adjusted to allow for a constant gas flow.

CE 0459

Ordering Information: LiNA **Lap-Guard**

REF.	Product	Packing
LG-0100	**LiNA LapGuard** - Laparoscopic Smoke Filtration System, single use	Box of 10, sterile

NF EN ISO 13485
ISO 9001

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