

AIRSEAL[®]

SYSTEM





AIRSEAL[®] iFS

The AirSeal iFS is the World's first "3 in 1" insufflation management system and features unmatched capabilities in providing a stable pneumoperitoneum, continuous smoke evacuation, and valve-free access.

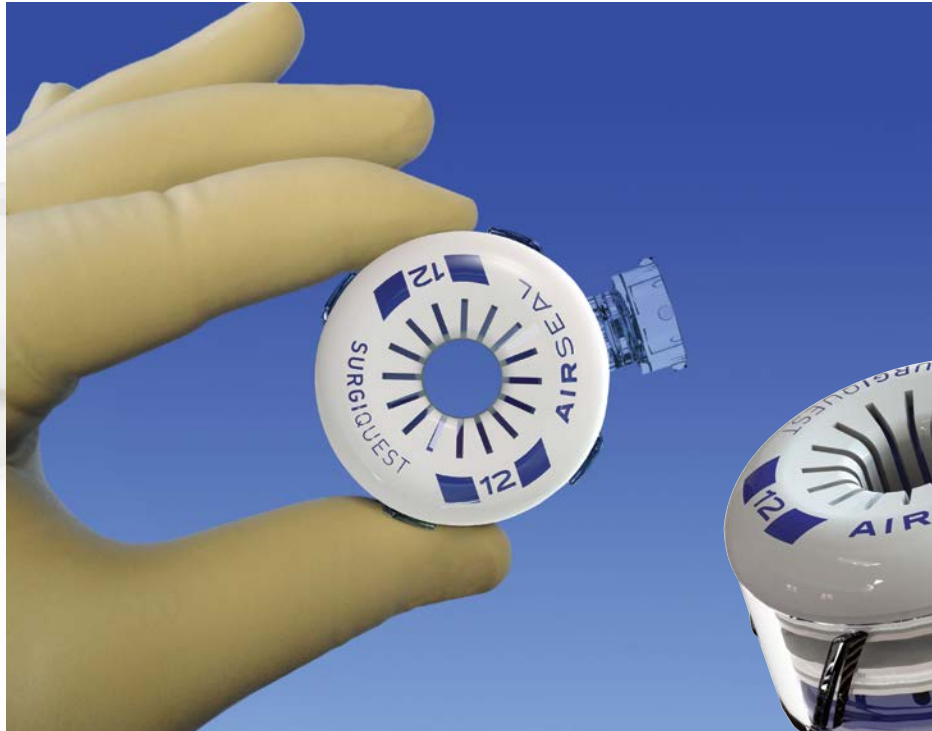
The AirSeal iFS offers 3 distinct modes of operation, including:

	Stable Pneumoperitoneum	Continuous Smoke Evacuation	High Flow Insufflation
AirSeal Mode	●	●	●
Smoke Evacuation Mode		●	●
Standard Insufflation Mode			●

AIRSEAL® Access Port

AirSeal Access Port:

- Valve-Free Access to Abdominal Cavity
- Intact Specimen Removal
- Unimpeded Introduction and Removal of Clips, Needles, Sutures, and Mesh



LUMEN #1

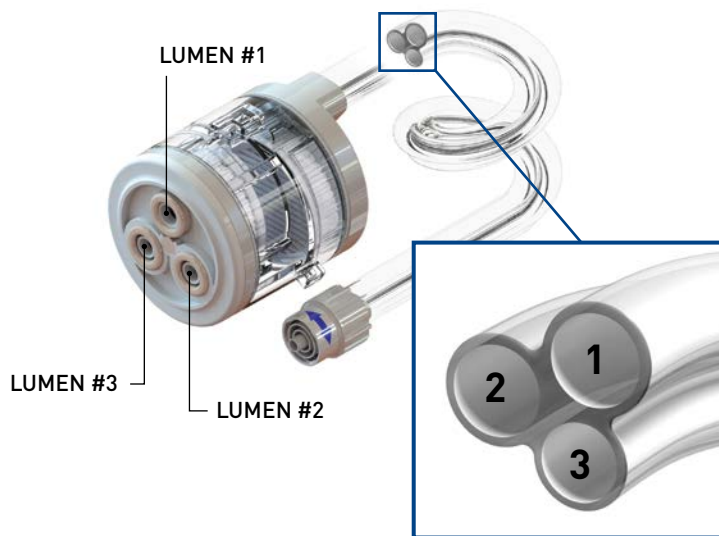
- Facilitates Smoke Evacuation and Filtration

LUMEN #2

- Establishes Insufflation and Real Time Pressure Control

LUMEN #3

- Creates and Maintains Invisible AirSeal Barrier



Cross Section with Corresponding Lumens

AIRSEAL[®] Filtered Tube Sets

The AirSeal iFS is capable of operating in 3 distinct modes, each of which uses a specific filtered tube set to maximize system performance.



AIRSEAL MODE

Tri-Lumen Filtered Tube Set

- Optimizes Gas Flow to Provide Stable Pneumoperitoneum
- Evacuates & Filters Smoke with 0.01 μ ULPA Filtration
- Used with AirSeal Access Port

SMOKE EVACUATION ONLY MODE

Bifurcated, Dual-Lumen Filtered Tube Set

- Provides High Flow Insufflation
- Evacuates & Filters Smoke with 0.01 μ ULPA Filtration
- Used with 2 Conventional Trocars

STANDARD INSUFFLATION MODE

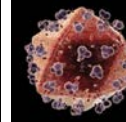
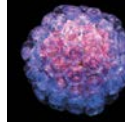

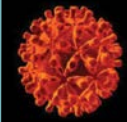
Single-Lumen Filtered Tube Set

- Provides High Flow Insufflation
- Used with Conventional Trocars

FILTERS PARTICULATES DOWN TO 0.01 MICRON

0.01 μ AIRSEAL[®] Filter

Acronym	Name	Size
HAV	Hepatitis A Virus	0.029μ
HEV	Hepatitis E Virus	0.039μ
HCV	Hepatitis C Virus	0.039μ
HBV	Hepatitis B Virus	0.042μ
HPV	Human Papilloma Virus	0.055μ
HIV	Human Immunodeficiency Virus	0.15μ
BAC	Bacteria	0.30+μ



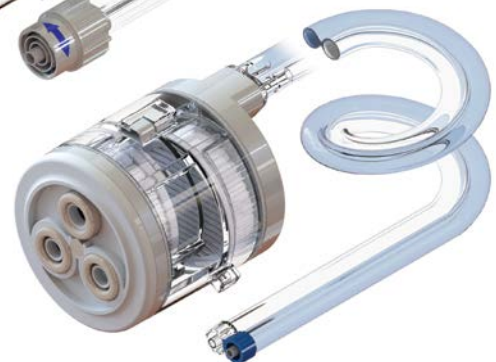
HCV**HBV****HPV****HIV**



Tri-Lumen Filtered Tube Set
(AirSeal Mode)
ASM-EVAC



Single-Lumen Filtered Tube Set
(Standard Insufflation Mode)
SIM-TUB



Bifurcated, Dual-Lumen Filtered Tube Set
(Smoke Evacuation Only Mode)
SEM-EVAC

Perfect for Robotic and all Other Laparoscopic Surgery

By providing stable pneumoperitoneum, continuous smoke evacuation, and valve-free access to the abdominal cavity, the AirSeal® System has been demonstrated to reduce procedure time resulting in increased operating efficiency.¹

(SURGEON)	Procedural Performance
	Stable Pneumoperitoneum
	Continuous Smoke Evacuation
(PATIENT)	Clinical Performance
	Improved Pulmonary Compliance ⁶
	Reduced Narcotic Use ⁶
(HOSPITAL)	Fiscal Performance
	Reduced Operative Time ¹
	Increased Operating Efficiency ¹



LOW IMPACT™ LAPAROSCOPY

Multiple peer-reviewed studies and meta-analyses conclude that Low Pressure Laparoscopy^{2,3,4,5} offers significant clinical benefits. This includes reduced analgesic use and length of stay, which can lower healthcare costs, thereby improving hospital profitability. Data also shows that Low Pressure Laparoscopy was previously difficult to accomplish due to the limitations associated with conventional insufflation.⁴

AirSeal System's unique ability to maintain stable pneumoperitoneum and constantly evacuate smoke enables surgeons to operate at lower pressures without compromising exposure. The AirSeal System facilitates LOW IMPACT™ Laparoscopy with well-established clinical benefits for the patients and financial benefits for the hospitals.

PERFORMANCE & APPLICATIONS

References:

- ¹ George AK, Wimhofer R, Viola KV, Pernegger M, Costamoling W, Kavoussi LR, Loidl W. World J Urol. 2015 Mar 1.
- ² Josphipura VP, Haribhakti SP, Patel NR, et al. A prospective randomized, controlled study comparing low pressure versus high pressure pneumoperitoneum during laparoscopic cholecystectomy. Surg Laparosc Endosc Percutan Tech. 2009 Jun;19(3):234-40.
- ³ Yasir, M, Mehta KS, Bandy VH, et al. Evaluation of post-operative shoulder tip pain in low pressure versus standard pressure pneumoperitoneum during laparoscopic cholecystectomy. Surgeon. 2012 Apr;10(2):71-4.
- ⁴ Hua J, Gong J, Yao L, et al. Low-pressure versus standard-pressure pneumoperitoneum for laparoscopic cholecystectomy: a systematic review and meta-analysis. Am J Surg. 2014 Jul;208(1):143-50.
- ⁵ Gurusamy KS, Samraj K, Davidson BR. Low pressure versus standard pressure pneumoperitoneum in laparoscopic cholecystectomy. Cochrane Database Syst Rev. 2009 Apr 15;(2):CD006930.
- ⁶ Sroussi, J, Rigouzzo A, Elies A, et al. Laparoscopic Surgery at low (7mm) pressure with AirSeal® System. Presented at 2013 AAGL Meeting. Publication Pending.

PRODUCT Order Codes

	REF #	Product Description		Unit of Measure	Quantity per Box
AirSeal® Access Ports	iAS5-100LP	5mm Access Port and Low Profile Obturator with Bladeless Optical Tip, 100mm Length		Box	6
	iAS5-120LP	5mm Access Port and Low Profile Obturator with Bladeless Optical Tip, 120mm Length		Box	6
	iASB5-150	5mm Smooth Access Port with Blunt Tip, 150mm Length (For use with Single Site Surgical Platforms)		Box	6
	iAS8-100LP	8mm Access Port and Low Profile Obturator with Bladeless Optical Tip, 100mm Length		Box	6
	iAS8-120LP	8mm Access Port and Low Profile Obturator with Bladeless Optical Tip, 120mm Length		Box	6
	iAS12-100LPi	12mm Access Port and Palm Grip Obturator with Bladeless Optical Tip, 100mm Length		Box	6
	iASB12-100	12mm Access Port and Obturator with Blunt Tip, 100mm Length		Box	6
	iAS12-120LPi	12mm Access Port and Palm Grip Obturator with Bladeless Optical Tip, 120mm Length		Box	6
	iASB12-120	12mm Access Port and Obturator with Blunt Tip, 120mm Length		Box	6
	iAS12-150	12mm Access Port and Obturator with Bladeless Optical Tip, 150mm Length		Box	6
Tube Sets	ASM-EVAC (AirSeal Mode)	Tri-Lumen Filtered Tube Set for use with AirSeal® iFS		Box	6
	SEM-EVAC (Smoke Evacuation Only Mode)	Bifurcated, Smoke Evac Filtered Tube Set for use with AirSeal® iFS		Box	6
	SIM-TUB (Standard Insufflation Mode)	Single-Lumen Filtered Tube Set for use with AirSeal® iFS		Box	10
AirSeal® iFS	AS-iFS1	AirSeal® iFS Intelligent Flow System - (120V)		Unit	1
	AS-iCART-V	AirSeal Cart for iFS Intelligent Flow System with Switching Valve		Unit	1

Additional accessories available.