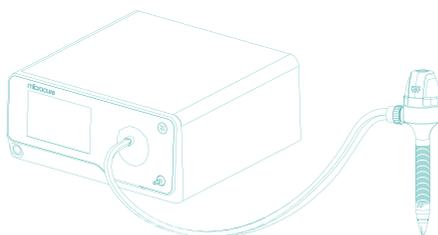


microcure

INTELLIGENT INSUFFLATOR SYSTEM



- INTELLIGENT CONSTANT PRESSURE •
- INSTANT SMOKE REMOVAL •
- CIRCULATING FILTRATION •
- COMPATIBLE WITH SMALL CHAMBERS •

INTELLIGENT INSUFFLATOR SYSTEM

01 Product Introduction



During minimally invasive surgeries, CO₂ is utilized to establish and maintain the operative cavity, supplied via gas cylinders or wall-mounted pipelines. Real-time pressure monitoring, integrated with intelligent algorithms, facilitates procedures at lower flow rates and insufflation pressures. Featuring both Circulation Mode (CO₂ filtration reuse) and Classic Mode (single-pass), the system is compatible with various laparoscopic and robotic surgical platforms.

02 Core Advantages



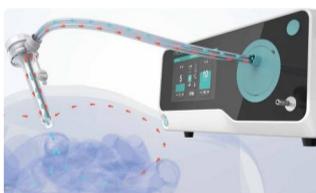
Intelligent Constant Pressure Control

- Dedicated pressure sensing port for precision measurement.
- Intelligent algorithm adjustment for real-time pressure control.
- High-flow CO₂ replenishment (45L/min) ensures pressure stability during procedures.



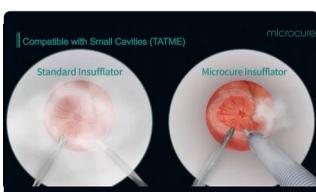
Instantaneous Smoke Removal

- Three-speed smoke evacuation suitable for multiple surgical scenarios.
- Filters particles $\geq 0.008\mu\text{m}$ with >99.99% efficiency, ensuring clean air in OT room.



Recirculating Filtration

- Sealed design prevents surgical smoke leakage, safeguarding clinician health.
- Zero gas leakage minimizes CO₂ usage.
- Closed-loop gas circulation maintains patient normothermia.



Adaptability to Confined Surgical Cavities

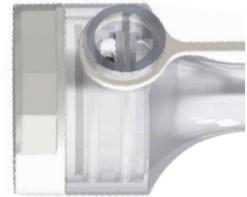
- Accurate and rapid pressure measurement, maintains stable pressure in small-space procedures.
- Transanal surgical guidelines explicitly state the requirement for stable pressure.

BENEFITS

03 Detail Display

Dual - Channel Independent Design

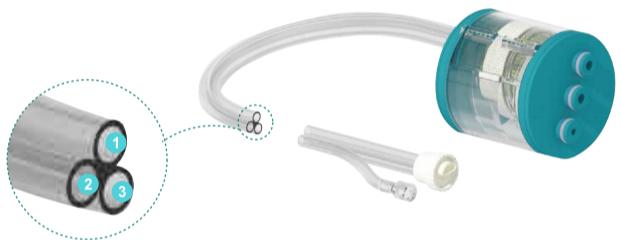
The insufflation and smoke evacuation pathways are strictly separated to prevent surgical smoke from re-entering the abdominal cavity.



Triple - Lumen Tubing

Enables simultaneous operation:

- ▶ Gas intaking
- ▶ Smoke evacuation
- ▶ Real-time pressure monitoring



Dual-Layer Filter Cartridges

Achieves dual-layer filtration:

- ▶ Inflow CO₂ purification
- ▶ Outflow smoke filtration

Transparent Visual Trocar Obturator

Provides real-time visual guidance during insertion and ensures safe tissue access.



04 Main Unit Functions

Mode	Pressure Stabilization	Closed Circulation	Smoke Evacuation
Classic Mode	✓		
Circular Mode	✓	✓	✓

05 Key Benefits

For Surgeons	For Patients	For Hospitals
<ul style="list-style-type: none"> - Stable Pneumoperitoneum - Continuous Automatic Smoke Evacuation 	<ul style="list-style-type: none"> - Reduced Anesthetic Consumption - Faster Recovery 	<ul style="list-style-type: none"> - Increased Hospital Bed Turnover Rate - Reduced CO₂ usage - Shorter Operative Time

APPLICATION

Department	Applicable Surgeries	Department	Applicable Surgeries
Hepatobiliary Surgery	Cholecystectomy	Pediatric and Thoracic Surgery	Hernia + Appendix
	Partial Hepatectomy		Radical Resection of Esophageal Cancer
	Hepatic Segment Resection		Mediastinal Tumor Surgery
	Common Bile Duct Exploration and Lithotomy	Obstetrics and Gynecology	Radical Hysterectomy for Cervical Cancer
	Fenestration and Drainage of Hepatic Cyst		Radical Resection for Ovarian Cancer
	Radical Pancreatoduodenectomy		Radical Resection of Fallopian Tube
Gastrointestinal Surgery	Radical Resection for Gastric Cancer	Ovarian Cystectomy	
	Left Hemicolectomy	Salpingectomy	
	Right Hemicolectomy	Total Hysterectomy	
	Transverse Colectomy	Urology Surgery	Partial Nephrectomy
	Appendectomy		Radical Prostatectomy
	Hernia Repair		Radical Cystectomy for Bladder Cancer
	Ultra - low Anterior Resection for Rectal Cancer with Sphincter Preservation		Ureteroplasty
Colorectal Surgery	Radical Resection of Sigmoid Colon	Thyroid and Breast Surgery	Thyroidectomy
	Radical Resection of Rectal Cancer		Radical Mastectomy for Breast Cancer (Single - Port)
		Others	Robot - Assisted Precision Surgery

SPECIFICATIONS

Photo	Description	Unit	Qty/Unit	Model
	Intelligent Insufflator System	Case	1	VAIN-04
	Disposable Insufflation Filtered Tube Sets (Circular mode)	Case	10	VADF-A
	Disposable Insufflation Filtered Tube Sets (Classic mode)	Case	10	VADF-B
	12mm Disposable Smoke Evacuation Trocar	Case	10	12/100
	5mm Disposable Smoke Evacuation Trocar	Case	10	5/100

Microcure (Suzhou) Medical Technology Co.,Ltd.

Web: <http://microcuremed.cn/?lang=en>

Add: 1 - 101, 188 Jialingjiang Road, Suzhou New District,
Jiangsu, P.R.China.

Contact: Meg Liu (Joint Operations Director)

TEL: +86-0512-62916116

Mobile: +86-13601991007

Email: info@microcure.com.cn



LinkedIn



Website



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