

Insufflation

Warm Gas Insufflators / Gas Heating Modules / Accessories



WISAP Medical Technology

Pioneering for Minimally Invasive Surgery



Since 1959, WISAP has been developing and manufacturing medical technology for minimally invasive surgery. Shaped by Prof. Dr. Kurt Semm, one of the pioneers of modern laparoscopy, we combine German engineering, clinical understanding and advanced high-tech expertise.

German Quality.
Smart Technology.
Built for minimally invasive care.

Our portfolio covers core technologies for laparoscopy, hysteroscopy, gynecology and general surgery — from insufflation, visualization and irrigation to morcellation, thermocoagulation and surgical instruments. Together, these technologies form practical system solutions for minimally invasive applications, developed for hospitals, clinical departments and partners worldwide.

WISAP at a glance



since
1959



approx.
50
Employees



made
in Germany



ISO
13485:2016



Distribution in
50
Countries

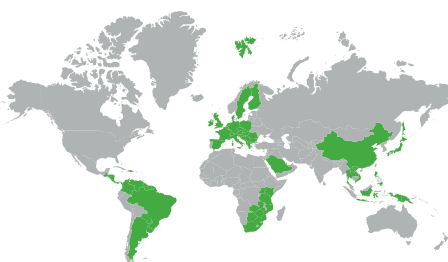
WISAP capability



WISAP Certified Quality

WISAP is a medium-sized medical technology company based in Brunnthal near Munich. We specialize in the manufacture of devices and instruments for minimally invasive surgery. We employ specialized professionals in all areas and manufacture our products exclusively in Germany. With TÜV SÜD Product Service GmbH as our notified body, WISAP has a strong partner to ensure consistent quality standards.

The company is certified according to EN ISO 13485:2016, and its products comply with the Medical Devices Directive 93/42/EEC. The corresponding certificates are available for download in the Info-center for registered users.



Partner & Service



Product Documentation



Technical Service & RMA



Training & Application



Distribution Support

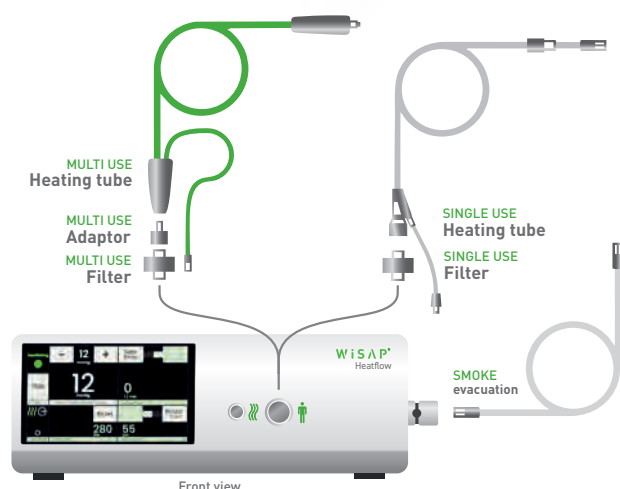
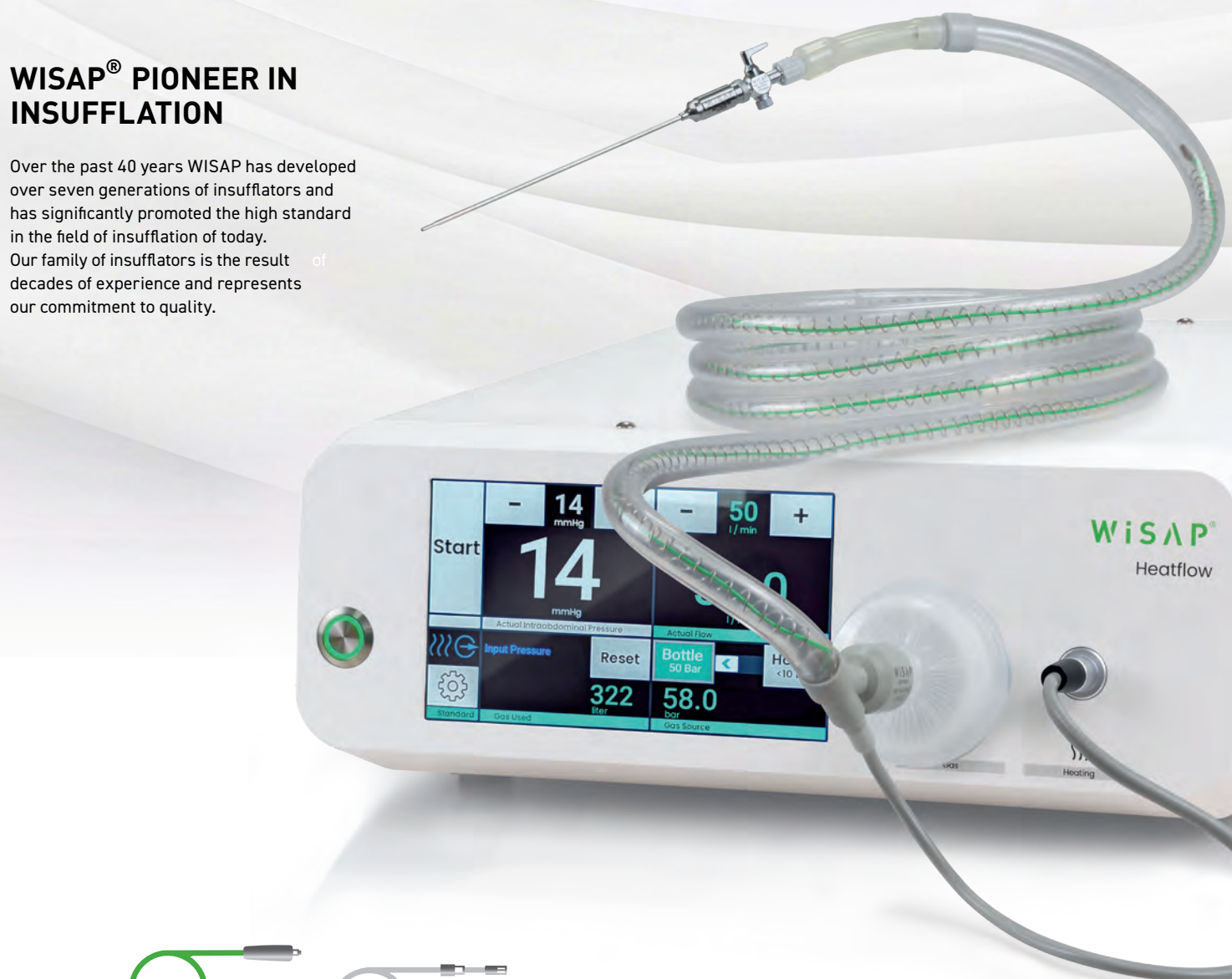
WARM GAS INSUFFLATION

The key to preventing Hypothermia

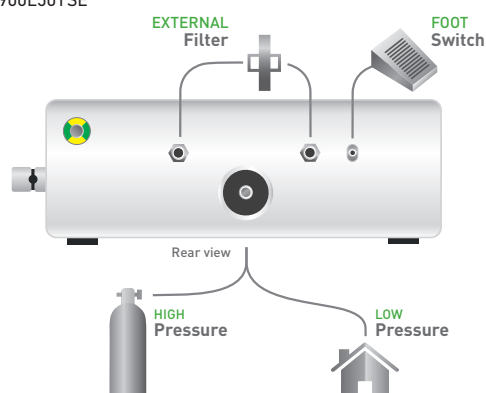
WISAP® PIONEER IN INSUFFLATION

Over the past 40 years WISAP has developed over seven generations of insufflators and has significantly promoted the high standard in the field of insufflation of today.

Our family of insufflators is the result of decades of experience and represents our commitment to quality.



Heatflow 50
1900L50TSE



High quality heating hoses

Multi-Use and Single-Use

CO₂ - GAS HEATING

The use of pre-warmed CO₂ gas has shown to reduce the post-operative pain-killer need by 30%. As we believe in the benefits of CO₂ gas heating, all our models are equipped with this feature.



HEATING TUBE SINGLE-USE



HEATING TUBE MULTI-USE

HEATFLOW

HEATFLOW

High-Performance CO₂-Insufflator (50L/min) with integrated gas heating and smoke-evacuation

- 50 liter High flowrate
- CO₂ gas heating system
- Three patient modes: Pediatric, Standard, Bariatric
- Integrated smoke evacuation system
- Flow adjustable algorithm
- Safety overpressure valve
- Intuitive user interface



- CO₂-GAS HEATING
- SAFETY-RELIEF VALVE
- SMOKE-EVACUATION
- NEGATIVE PRESSURE GAUGE

TECHNICAL DATA

Max. gas flow:	50 l/min
Pressure range:	3-30 mmHg
Gas connection:	CO ₂ -US-Standard
Mains voltage:	100-240 V / 50/60 Hz
Power input:	Heatflow with smoke evacuation 140 Va
Casing:	Stainless steel, aluminium / white coated
Dimensions:	w x h x d = 350 x 130 x 360 mm
Weight:	app. 8 kg

ORDER DATA

HEATFLOW

1900L50TSE	CO ₂ -Insufflator 50 l with smoke evacuation each with one single-use heating hose, gas filter (to bottle- / house-connection), gas filter (to patient), filter adaptor for multi-use heating hose, tubing-set for smoke-evacuation, foot-switch for smoke evacuation
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TETRAFLATOR 45

Tetraflator 45

High-Performance CO₂-Insufflator with integrated gas heating and smoke-evacuation (optional)

- 45 liter flowrate
- integrated gas heating
- optimal pressure control
- Neonatal-/bariatric-mode
- CO₂ supply with gas-bottle or central
- optical/acoustic warnings at excess pressure
- pressure relief valve



TECHNICAL DATA

Max. gas flow:	45 l/min
Pressure range:	3-30 mmHg
Gas connection:	CO ₂ -US-Standard
Mains voltage:	100-240 V / 50/60 Hz
Power input:	Tetraflator Standard 100 VA Tetraflator with smoke evacuation 140 VA
Casing:	Stainless steel, aluminium / white coated
Dimensions:	w x h x d = 350 x 130 x 360 mm
Weight:	app. 8 kg

ORDER DATA

TETRAFLATOR 45

7085L45T	CO ₂ -Insufflator 45 l each with one single-use heating hose, gas filter (to bottle- / house-connection), gas filter (to patient), filter adaptor for multi-use heating hose
7085L45TSE	CO ₂ -Insufflator 45 l with smoke evacuation each with one single-use heating hose, gas filter (to bottle- / house-connection), gas filter (to patient), filter adaptor for multi-use heating hose, tubing-set for smoke-evacuation, foot-switch for smoke evacuation

TETRAFLATOR 30

Tetraflator 30

MID-RANGE CO₂-Insufflator with gas heating and smoke-evacuation (optional)

- 30 liter flowrate
- integrated gas heating
- optimal pressure control
- Neonatal-/bariatric-mode
- CO₂ supply with gas-bottle or central
- optical/acoustic warnings at excess pressure
- pressure relief valve



- CO₂-GAS HEATING
- SAFETY-RELIEF VALVE
- SMOKE-EVACUATION
- NEGATIVE PRESSURE GAUGE

TECHNICAL DATA	
Max. gas flow:	30 l/min
Pressure range:	3-30 mmHg
Gas connection:	CO ₂ -US-Standard
Mains voltage:	100-240 V / 50/60 Hz
Power input:	Tetraflator Standard 100 VA Tetraflator with smoke evacuation 140 VA
Casing:	Stainless steel, aluminium / white coated
Dimensions:	w x h x d = 350 x 130 x 360 mm
Weight:	app. 8 kg

ORDER DATA		TETRAFLATOR 30
7085L30T	CO ₂ -Insufflator 30 l each with one single-use heating hose, gas filter (to bottle- / house-connection), gas-filter (to patient), filter adaptor for multi-use heating hose	
7085L30TSE	CO ₂ -Insufflator 30 l with smoke evacuation each with one single-use heating hose, gas filter (to bottle- / house-connection), gas filter (to patient), filter adaptor for multi-use heating hose, tubing-set for smoke-evacuation, foot-switch for smoke evacuation	

TETRAFLATOR 20

Tetraflator 20

Low-Cost CO₂-Insufflator with gas heating

- 20 liter flowrate
- integrated gas heating
- optimal pressure control
- Neonatal-/bariatric-mode
- CO₂ supply with gas-bottle or central
- optical/acoustic warnings at excess pressure
- pressure relief valve



CO₂-GAS HEATING

SAFETY-RELIEF VALVE

TECHNICAL DATA

Max. gas flow:	20 l/min
Pressure range:	3-30 mmHg
Gas connection:	CO ₂ -US-Standard
Mains voltage:	100-240 V / 50/60 Hz
Power input:	Tetraflator Standard 100 VA
Casing:	Stainless steel, aluminium / white coated
Dimensions:	w x h x d = 350 x 130 x 360 mm
Weight:	app. 8 kg

ORDER DATA

TETRAFLATOR 20

7085L20T	CO ₂ -Insufflator 20 l each with one single-use heating hose, gas filter (to bottle- / house-connection), gas filter (to patient), filter adaptor for multi-use heating hose
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CO₂-Gas Heating modul

Flow Therme

Separate gas heating modul, adaptable to any cold-gas insufflator.

In the course of an operative endoscopy a few hundred liters of CO₂-gas can be insufflated. Because of the size of the peritoneal surface and the resulting evaporative-cooling it results in cooling of the abdominal cavity (temperature in the abdominal cavity to <32° C).

This can cause a peritoneal catarrh which leads in turn to post-operative pain of the diaphragm and the shoulder.

After 3 years of studies it could be shown that by using gas heated up to body temperature, the postoperative use of analgesics was significantly reduced. The CO₂ -gas is heated up by the WISAP FLOW THERME.

FITS ALL COLD GAS INSUFFLATORS

FITS TO 7642 HS + 7642 HSE



TECHNICAL DATA	
Mains voltage:	Standard: 230 V-50 Hz Please indicate other requested voltages when ordering.
Power input:	55 VA
Dimensions:	w x h x d = 150 x 80 x 170 mm
Casing:	Stainless steel, aluminium / white coated
Weight:	2,2 kg

ORDER DATA	
FLOW THERME	
7642	Flow Therme, for heating up insufflation gas to body temperature incl. accessories: Mains cable

Accessories

ORDER DATA

VERESS-NEEDLE



mm	
100 mm	7160 W
120 mm	7160 W1
150 mm	7160 W3

ACCESSORIES



	Heating tube (multi-use)
7642HS	L = 2,75 m / autoclaveable / adaptor for gas-heating / LL adaptor to Veress needle or trocar



	Heating tube (single-use) (Pack)
7642HSE1 7642HSE10	WISAP / L = 2,75 m / LL adaptor to Veress needle or trocar / 10 pcs. p.pck. Olympus / L = 2,75 m / LL adaptor to Veress needle or trocar / 10 pcs. p.pck.



	Smoke Evacuation
7085AS	Single Use tubing for smoke evacuation. Only in combination with insufflation devices equipped with smoke evacuation system



	Filter, sterile (pack)
7070TFW2	For CO ₂ -gas-exit / 50 pcs. p. pack



	System adaptor
7050AG	Adaptor 1 piece



	Adaptor without filter
7070TA	For heating-tube multi use (7642HS) / 1 piece



	Filter extern 1 piece
1900FE	For CO ₂ -connection (back side of unit)



	Filter extern 1 piece
7085FE	For CO ₂ -connection (back side of unit)



	foot-switch
7085FS	foot-switch for smoke evacuation control

Accessories

ORDER DATA

CO₂-CONNECTION-TUBING FOR INSUFFLATORS

Gas-source

Unit fitting



	PIN-Index $\triangleleft \triangleright$ US (HIGH-PRESSURE)
9919	CO ₂ -connection-tubing (HIGH-P), bottle (PIN-index) - device (PIN-index) / L = 1 m



	Germany $\triangleleft \triangleright$ US (HIGH-PRESSURE)
9919-1	CO ₂ -connection-tubing (HIGH-P), bottle (D) - device (US) / L = 1 m



	Italy $\triangleleft \triangleright$ US (HIGH-PRESSURE)
9919-3	CO ₂ -connection-tubing (HIGH-P), bottle (Italy) - device (US) / L = 1 m



	Germany $\triangleleft \triangleright$ US (LOW-PRESSURE)
9912-4	CO ₂ -connection-tubing (LOW-P), central (D) - device (US) / L = 4 m



	Italy $\triangleleft \triangleright$ US (LOW-PRESSURE)
9912-6	CO ₂ -connection-tubing (LOW-P), central (Italy) - device (US) / L=5m

Contact us

PERSONAL NOTES

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YOUR PERSONAL CONTACT PERSON

Distribution company

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