

## INSUFFLATION

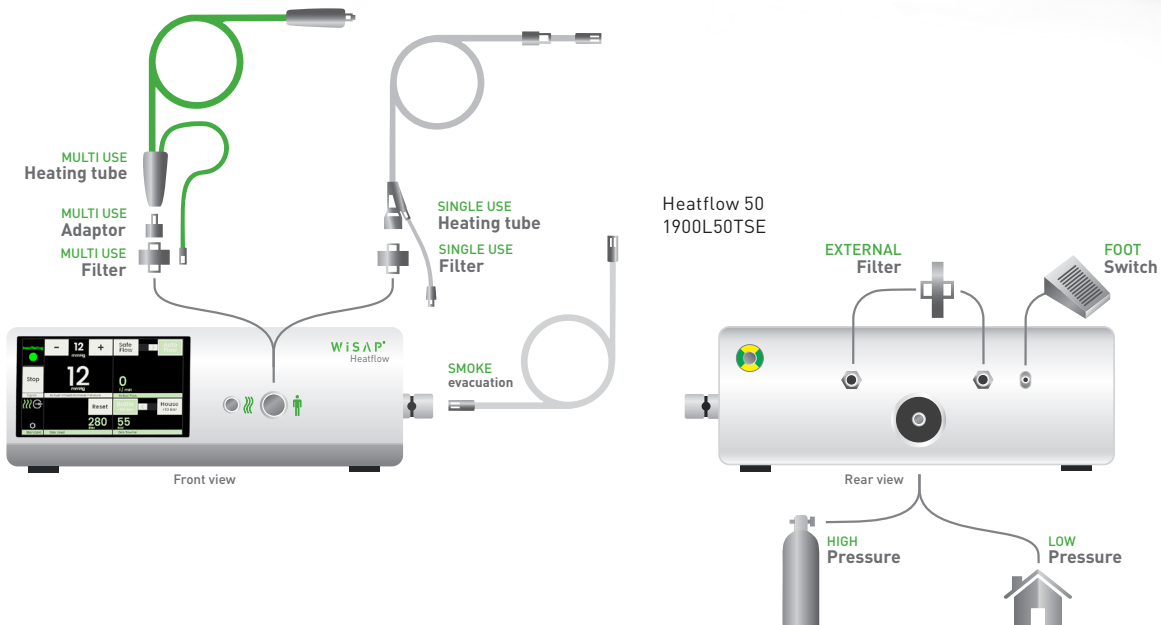
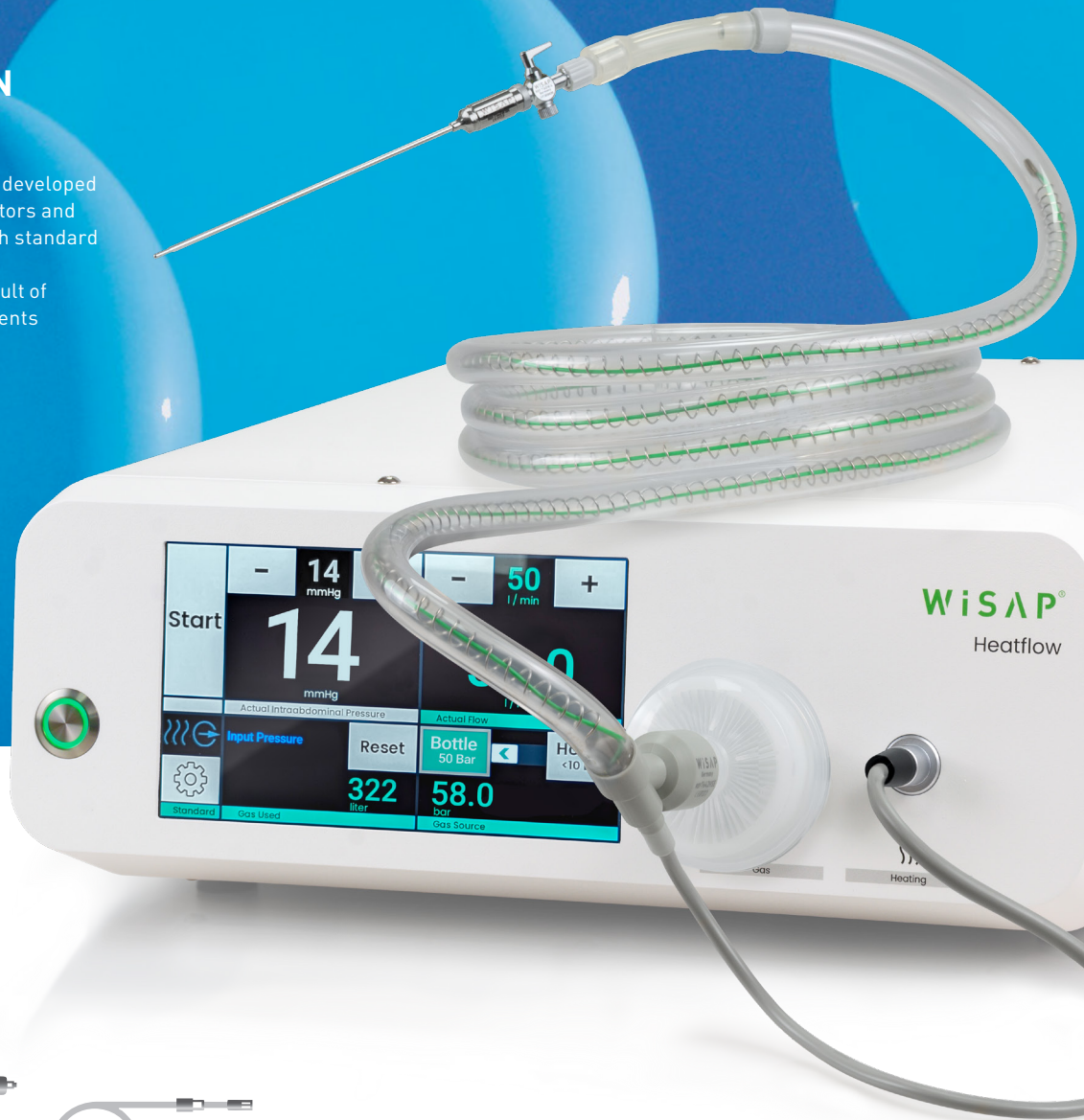
WARM GAS INSUFFLATORS /  
GAS HEATING MODULES / ACCESSORIES



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.



## HIGH QUALITY HEATING HOSES MULTI-USE AND SINGLE-USE

### CO<sub>2</sub>- GAS HEATING

The use of pre-warmed CO<sub>2</sub> gas has shown to reduce the post-operative pain-killer need by 30%. As we believe in the benefits of CO<sub>2</sub> gas heating, all our models are equipped with this feature.



HEATING TUBE SINGLE-USE



HEATING TUBE MULTI-USE

## HEATFLOW

**HEATFLOW**

**High-Performance CO<sub>2</sub>-Insufflator (50l/min) with integrated gas heating and smoke-evacuation**

- 50 liter High flowrate
- CO<sub>2</sub> gas heating system
- Three patient modes: Pediatric, Standard, Bariatric
- Integrated smoke evacuation system
- Flow adjustable algorithm
- Safety overpressure valve
- Intuitive user interface

CO<sub>2</sub>-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 <sub>2</sub> -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 <sub>2</sub> -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 CO<sub>2</sub>-Insufflator with integrated gas heating and smoke-evacuation (optional)**

- 45 liter flowrate
- integrated gas heating
- optimal pressure control
- Neonatal-/bariatric-mode
- CO<sub>2</sub> supply with gas-bottle or central
- optical/acoustic warnings at excess pressure
- pressure relief valve

CO<sub>2</sub>-GAS HEATING

SAFETY-RELIEF VALVE

SMOKE-EVACUATION

NEGATIVE PRESSURE GAUGE

**TECHNICAL DATA**

Max. gas flow:	45 l/min
Pressure range:	3-30 mmHg
Gas connection:	CO <sub>2</sub> -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 <sub>2</sub> -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 <sub>2</sub> -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 CO<sub>2</sub>-Insufflator with gas heating and smoke-evacuation (optional)**

- 30 liter flowrate
- integrated gas heating
- optimal pressure control
- Neonatal-/bariatric-mode
- CO<sub>2</sub> supply with gas-bottle or central
- optical/acoustic warnings at excess pressure
- pressure relief valve

CO<sub>2</sub>-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 <sub>2</sub> -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 <sub>2</sub> -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 <sub>2</sub> -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 CO<sub>2</sub>-Insufflator with gas heating

- 20 liter flowrate
- integrated gas heating
- optimal pressure control
- Neonatal-/bariatric-mode
- CO<sub>2</sub> supply with gas-bottle or central
- optical/acoustic warnings at excess pressure
- pressure relief valve

CO<sub>2</sub>-GAS HEATING

SAFETY-RELIEF VALVE

## TECHNICAL DATA

Max. gas flow:	20 l/min
Pressure range:	3-30 mmHg
Gas connection:	CO <sub>2</sub> -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 <sub>2</sub> -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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CO<sub>2</sub>-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 CO<sub>2</sub>-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 CO<sub>2</sub>-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
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## 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 insuflation devices equipped with smoke evacuation system



	Filter, sterile (pack)
7070TFW2	For CO <sub>2</sub> -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 <sub>2</sub> -connection (back side of unit)



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



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

CO<sub>2</sub>-INSUFFLATOR – ACCESSORIES

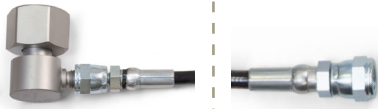
## ORDER DATA

CO<sub>2</sub>-CONNECTION-TUBING FOR INSUFFLATORS

Gas-source | Unit fitting



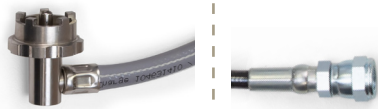
	PIN-Index ◁ ▷ US (HIGH-PRESSURE)
9919	CO <sub>2</sub> -connection-tubing (HIGH-P), bottle (PIN-index) - device (PIN-index) / L = 1 m



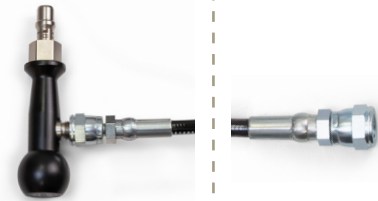
	Germany ◁ ▷ US (HIGH-PRESSURE)
9919-1	CO <sub>2</sub> -connection-tubing (HIGH-P), bottle (D) - device (US) / L = 1 m



	Italy ◁ ▷ US (HIGH-PRESSURE)
9919-3	CO <sub>2</sub> -connection-tubing (HIGH-P), bottle (Italy) - device (US) / L = 1 m



	Germany ◁ ▷ US (LOW-PRESSURE)
9912-4	CO <sub>2</sub> -connection-tubing (LOW-P), central (D) - device (US) / L = 4 m



	Italy ◁ ▷ US (LOW-PRESSURE)
9912-6	CO <sub>2</sub> -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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