



Flow-Therme 7642

7642 Flow Therme, for heating up insufflation gas to body temperature



7642 HSE1F
Disposable heating tube with filter,
silicone connection tube w. LL adaptor,
10 pcs.p.pck.

7642 HS
Reusable heating tube



Insufflation gas at body temperature

When diagnostic laparoscopy first began, the abdomen was filled with 5 ltr. of CO₂-gas. Today, at operative endoscopy we can use up to a few hundred ltrs of carbon dioxide gas throughout the procedure. With the rapid development of modern appliances, one important factor was completely forgotten: insufflation of gas lower than body temperature may cause an intra-abdominal hypothermia owing to the vast size of the peritoneal surface and the cold of evaporation resulting from this factor.

At pelviscopic measurements, it has been shown that not only the intra-abdominal temperature decreases to under 32°C, but also the rectal temperature is reduced by 1–3°C (depending on the operative time, gasconsumption etc.).

When CO₂-gas comes into contact with the peritoneum the first and active reaction noticeable is that of a hypothermia. The further insufflation of cool CO₂-gas leads to “peritoneal catarrh”. This reduces the patient’s wellbeing post-operatively and is responsible for a variety of post-operative complaints.

After 3 years of studies at the Clinic of Gynecology and Obstetrics of the University of Kiel and the Clinic of the University of Munich 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 using the WISAP-FLOW-THERME. The heating tube can be connected to all types of insufflators. The heating tube is autoclaveable up to 134°C, and has been successfully tried and tested over a long period of clinical trials.

Technical Data:

Mains voltage:	Standard: 230 V-50 Hz
Current acceptance:	55 VA
Dimensions:	w x h x d = 150 x 80 x 170 mm
Casing:	Stainless steel, aluminium / white coated Weight: 2,2 kg
Safety data:	Classification according to 93/42/EWG IIa Class I Equipment Type B Equipment
Approvals:	The CE labeling is performed in accordance with the EU-guidelines 93/42/EWG, Annex II



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