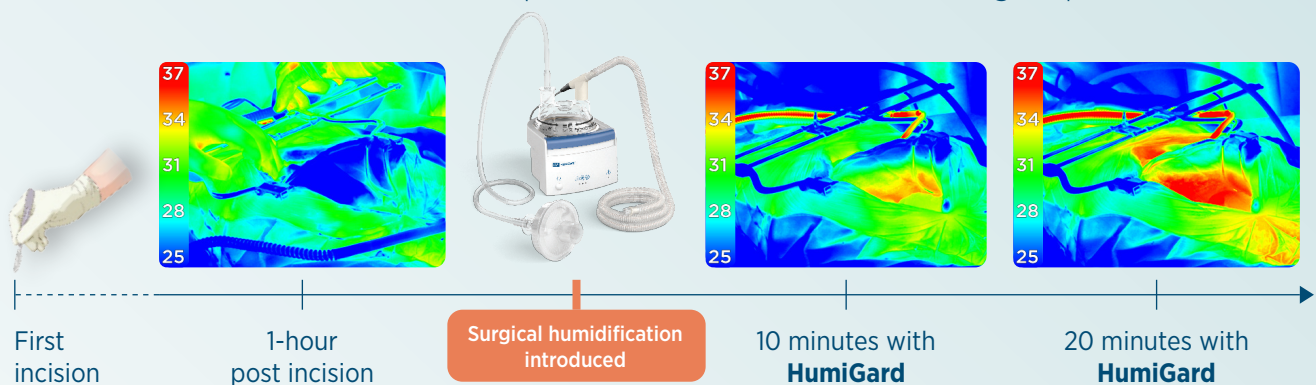


The SI400 gas diffuser has been designed to deliver warm and humidified CO₂ into the surgical cavity during open surgery. This provides warmth and humidity through a low-profile diffuser, designed to work with a range of common retraction systems.

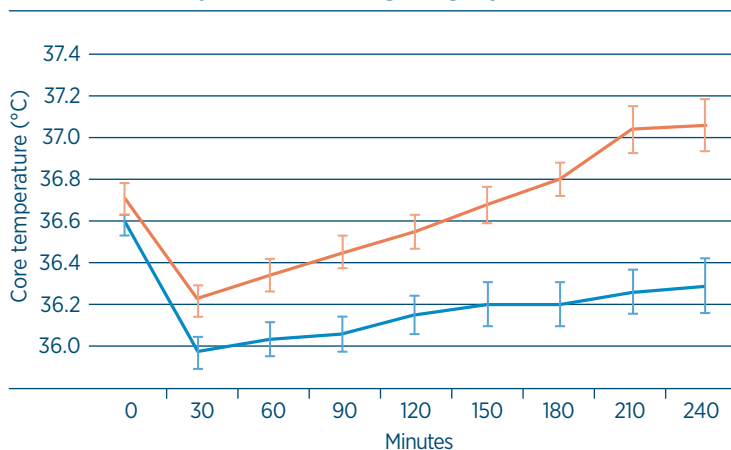
HumiGard in laparotomy significantly decreases the incidence of post operative hypothermia¹

At the end of surgery, 0% of patients in the Humigard group had a core temperature below 36.0 °C compared with 18% of the control group¹.



“Patients with a core temperature ≥ 36.0 °C at the end of surgery exhibited a better overall survival compared with those with core temperature < 36 °C at the end of surgery ($p=0.035$).” - Frey et al 2016 ²

Mean core temperature during surgery



	Control group n=39	HumiGard group n=40
<36.5 °C at the end of surgery	62%	20%
<36.0 °C at the end of surgery	18%	0%

HumiGard increases core temperature by 0.4°C-0.8°C to reduce the incidence of hypothermia¹.

1. Frey, J.M., Janson, M., Svanfeldt, M., Svenarud, P. K., & van der Linden, J. A. (2012). Local insufflation of warm humidified CO₂ increases open wound and core temperature during open colon surgery: a randomized clinical trial. *Anesthesia and Analgesia*, 115(5), 1204-1211. <https://doi.org/10.1213/ANE.0b013e31826ac49f>.
 2. Frey, J., Holm, M., Janson, M., Egenvall, M., & van der Linden, J. (2016). Relation of intraoperative temperature to postoperative mortality in open colon surgery--an analysis of two randomized controlled trials. *International journal of colorectal disease*, 31(3), 519-524. <https://doi.org/10.1007/s00384-015-2467-4>

System setup



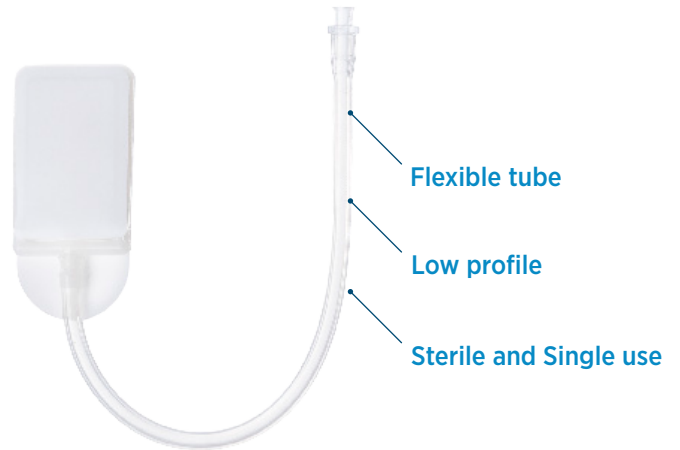
SI400 Key Features

Adhesive backing

To secure the positioning of the diffuser on the retractor.

Mouldable foam head

Designed to work with a range of common retraction systems.



SI400 setup



Remove the Humidified Gas Diffuser from the Tyvek pouch.

Peel off the backing.

Ensuring the Humidified Gas Diffuser is vertical, stick on the retractor.

Press firmly to form against the retractor. Alternatively, pre-bend to shape and place as required.

Connect the diffuser to the insufflation tube.