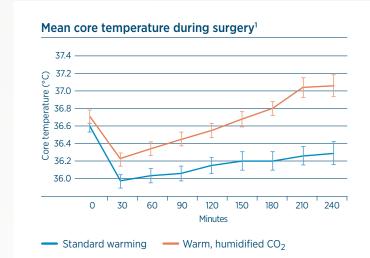


#### Improve patient outcomes with F&P HumiGard™

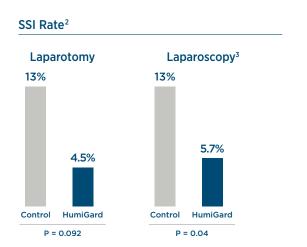
The SI400 gas diffuser has been designed to deliver warm and humidified CO<sub>2</sub> into the surgical cavity during open surgery. This provides warmth and humidity through a low-profile diffuser, designed to work with a range of common retraction systems.

# HumiGard in laparotomy significantly decreases the incidence of post operative hypothermia<sup>1</sup>.

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 group<sup>1</sup>.

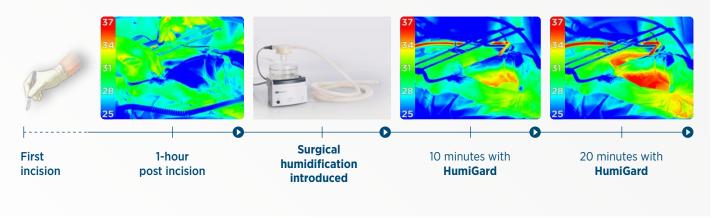


	Control	HumiGard
	group n=39	group n=40
<36.5 °C at the end of surgery	62%	20%
<36.0 °C at the end of surgery	18%	0%



#### HumiGard may help reduce the incidence of SSIs in laparotomy2.

"Intra-operative wound insufflation with warm, humidified CO<sub>2</sub> with HumiGard is a novel technique that may be a valuable adjunct to reduce SSI in patients undergoing open colorectal surgery<sup>2</sup>."



Frey, J.M., Janson, M., Svanfeldt, M., Svenarud, P. K., & van der Linden, J. A. (2012). Local insufflation of warm humidified CO<sub>2</sub> 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.
Arachchi A, Lee A, Metlapalli M, Antoniou E, Rajan R, Narasimhan V, Rajagopalan A, Key S, Teoh WMK, Nguyen TC, Lim JT, Chouhan H, Waxman BP, Smith JA. Does intra-operative humidification with warmed CO<sub>2</sub> reduce surgical site infection in open colorectal surgery? A randomized control trial. ANZ J Surg. 2023 Apr;93(4):970-979. doi: 10.1111/ans.18116. Epub 2022 Oct 19. PMID: 36259219.
Mason, S. E., Kinross, J. M., Hendricks, J. & Arulampalam, T. H. (2017). Postoperative hypothermia and surgical site infection following peritoneal insufflation with warm, humidified carbon dioxide during laparoscopic colorectal surgery: a cohort study with cost-effectiveness analysis. Surgical endoscopy, 31, 1923-1929.





### **System setup**



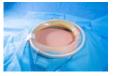
## **SI400 Key Features**

#### Adhesive backing

To secure the positioning of the diffuser on the retractor.

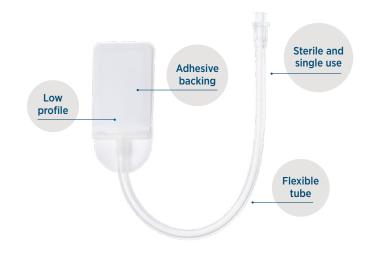
#### Mouldable foam head

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.

