



InterCooler™ respiratory dehumidifier



Critical Care ▪ InterCooler respiratory dehumidifier



InterCooler™ dehumidifier

Reduce intervention, increase protection

Condensation is a common issue when ventilating actively humidified patients in the ICU. Excess condensation in the ventilator and breathing system can quickly accumulate, leading to higher airway resistances, compromised ventilator performance and additional work for the patient and clinician.

The Intersurgical InterCooler dehumidifier is designed to remove 100% of excess moisture from the expiratory limb of heated wire breathing systems. InterCooler's patented technology keeps the expiratory pathway clear of fluid, helps maintain a closed system and protects the ventilator from high levels of humidity.

This unique closed system reduces the risk of cross infection by managing all excess fluid in the breathing system, increasing filtration and minimising aerosol generation.

InterCooler is compatible with all leading ICU ventilators, humidifiers and dual heated wire breathing systems and is the only solution to offer complete control of expiratory condensate.

Protect the patient

- InterCooler allows for a closed breathing system, and helps to:
 - maintain PEEP
 - maintain O₂ saturation
- Extend system use for up to 14 days
- Filter remains dry resulting in no increase in expiratory resistance

Protect the ventilator

- Protect ventilator valves and sensors from condensation
- Maintain ventilator performance
- Dry gas allows for high level pleated membrane filtration use on the expiratory limb

Protect the clinician and working environment

- Reduce the risk of cross infection
- Manage excess condensate safely and efficiently
- Collect and remove condensate with easy to use, self-sealing collection bags
- Removed waste fluid is converted to a gel for safe handling and disposal
- Increase filtration efficiency with 7 day, 99.9999% efficient hydrophobic pleated membrane filter

Reduce the risk

Monitor device performance and when the consumable fluid collection bag requires replacing via the visual status indicator LED and audible alarm.

All materials are phthalate and latex free and offer maximum visual clarity throughout the entire breathing system gas pathway.





Dry gas returning to the ventilator

protects the valves and sensors from condensation

High level pleated mechanical filtration

Dry gas allows for high level pleated mechanical filtration use on the expiratory limb



Self sealing condensate collection bag

with gel for safe handling and disposal



Visual status indicator

for condensate fluid collection bag replacement

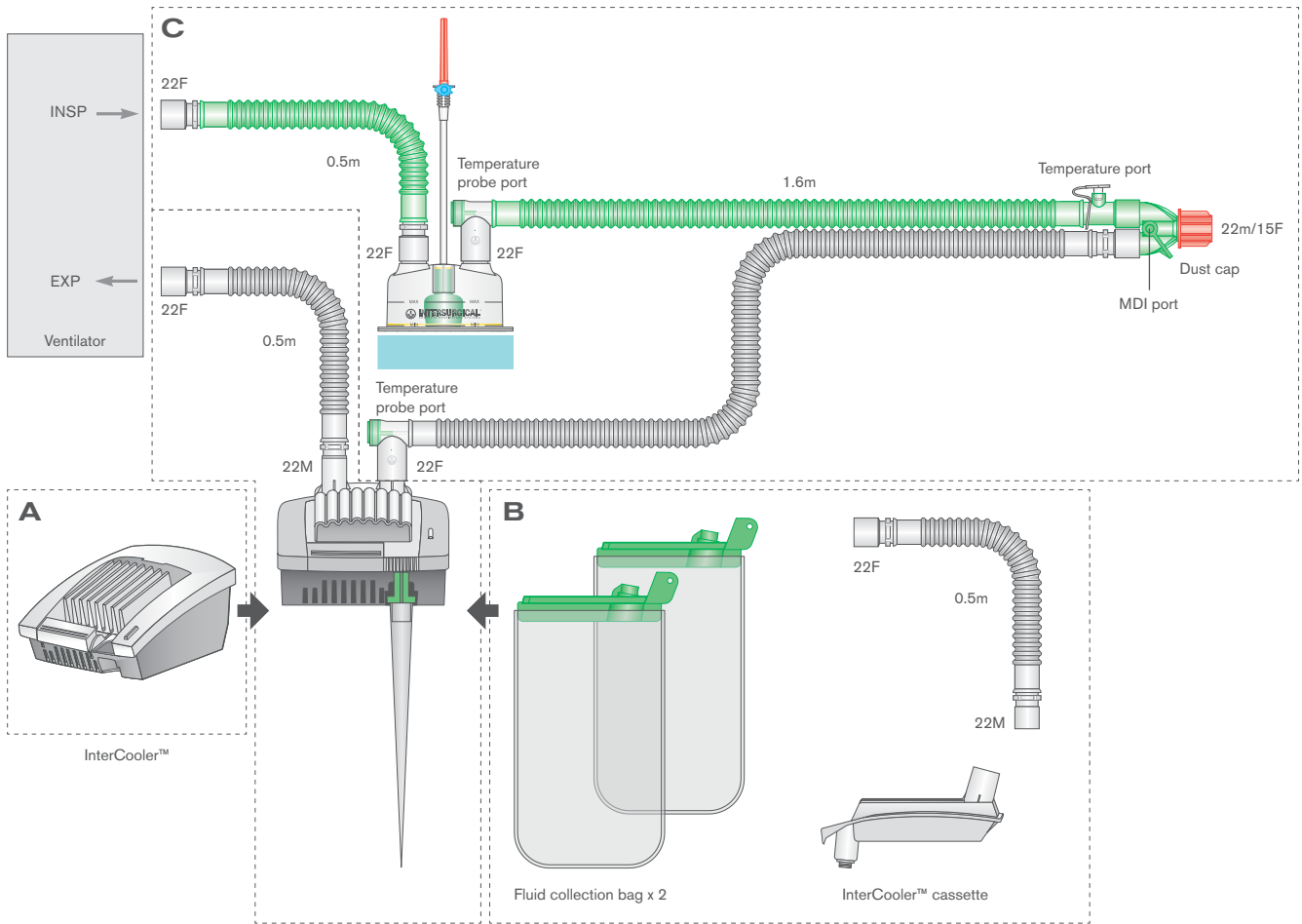


InterCooler™ system setup **A + B + C**

The Intersurgical InterCooler dehumidifier is compatible with the majority of ventilators, dual heated wire breathing systems and respiratory humidifiers on the market, and can be used on adult, paediatric and neonatal patients in the intensive care areas.



Dual heated wire breathing system



2428000 InterCooler™ 22mm adult breathing system adapter kit

A InterCooler dehumidifier

The Intersurgical InterCooler dehumidifier is compatible with the majority of ventilators, dual heated wire breathing systems and respiratory humidifiers on the market. It can be used on adult, paediatric and neonatal patients in the intensive care areas. Individual device product codes have been set up for the countries listed below.

Code	Description	Box Qty.	Code	Description	Box Qty.
7010000	InterCooler – UK	1	7010010	InterCooler – Germany	1
7010002	InterCooler – France	1	7010011	InterCooler – Netherlands	1
7010003	InterCooler – Czech Republic	1	7010012	InterCooler – Poland	1
7010007	InterCooler – Denmark	1	7010013	InterCooler – Portugal	1
7010008	InterCooler – Spain	1	7010014	InterCooler – Turkey	1
7010009	InterCooler – Italy	1	7010015	InterCooler – Sweden	1



B InterCooler™ adapter kit

Code	Description	Box Qty.
2428000	InterCooler 22mm adult breathing system adaptor kit	10
2429000	InterCooler 15mm neonatal and paediatric breathing system adaptor kit	10

C Dual heated wire breathing systems

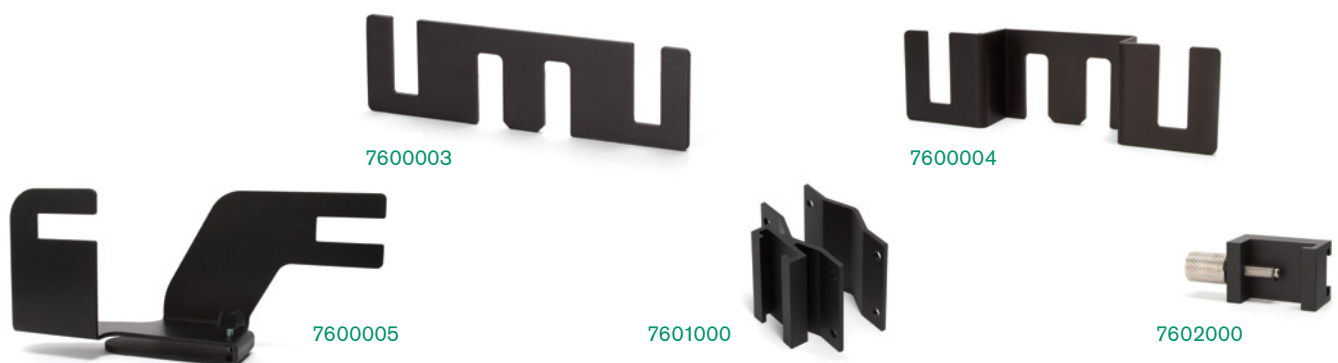
Code	Description	Box Qty.
2026310	22mm Flextube dual heated wire breathing system with auto-fill chamber and limb. $\geq 1.6\text{m}$	7
4504018	15mm Flextube dual heated wire breathing system with auto-fill chamber and limb. $\geq 1.2\text{m}$	7
6393810	10mm Flextube dual heated wire breathing system with Nitric Oxide adaptors, monitoring line, auto-fill chamber and limb. $\geq 1.2\text{m}$	7

Additional accessories



Code	Description	Box Qty.
2427000	InterCooler fluid collection bag (15 x 1 Litre)	15
1790007	Air-Guard Clear 7 breathing filter	50

InterCooler mounting brackets and pole clamps



Code	Description	Box Qty.
7600003	InterCooler mounting bracket – Straight dual	1
7600004	InterCooler mounting bracket – Offset dual	1
7600005	InterCooler mounting bracket – Tandem	1
7601000	Pole clamp	1
7602000	Rail clamp	1

InterCooler™ set up guide



You will need: **InterCooler** unit, **bracket**, dual heated wire **breathing system** and **InterCooler** adapter kit



Mount the humidifier on to the appropriate InterCooler **bracket**



Mount the InterCooler on to the appropriate InterCooler **bracket**



Insert the fluid collection bag into the InterCooler



Insert the InterCooler cassette ensuring that the rear edge is located **beneath** the lip in the InterCooler base



Push the cassette down and the **latch forward**, ensure location by checking that the **latch is flush** with the front of the InterCooler housing (see fig.1 over the page)



Connect the expiratory heated wire limb to the 22mm **male** connector of the InterCooler **cassette**



Connect the return limb to the 22mm **female** cassette connector



Connect the other end of the return limb to the **ventilator**. If **filtration** is required, use the 7-day **Air-Guard Clear 7** filter



Turn on the InterCooler by **pressing the power button**. The button will **illuminate green** if the system is set up and **functioning correctly**



Replacing the fluid collection bag*



When the **fluid collection bag** is full the power button will **flash blue**



To **replace** the fluid collection bag **press** the InterCooler™ **latch** to **release** the cassette



Remove the **full** collection bag and **replace** with a **new bag**



Insert a **new** collection bag



Push the **cassette down** and the **latch forward**, ensure location by checking that the **latch is flush** with the front of the InterCooler housing (see fig.1 below)



The button will **illuminate green** if the system is set up and **functioning correctly**

Please note: Ventilation can continue uninterrupted during bag replacement.

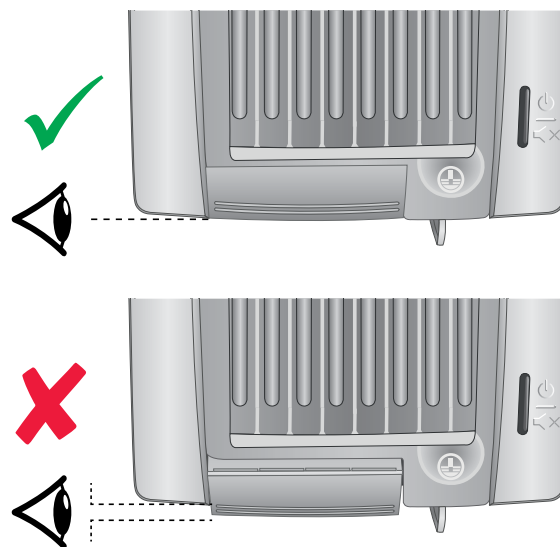


Figure 1: Ensure latch is flush with the front of the InterCooler housing.



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The manufacturer Intersurgical Ltd is certified to ISO 9001:2015, ISO 13485:2016, ISO 14001:2015 and MDSAP

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