

ParaTherm Heater / Cooler



The ParaTherm is a compact and efficient heater/cooler unit which is CE marked with the intended use in connection with an oxygenator to facilitate patient thermo-regulation during extra-corporeal bypass procedures such as ECMO.

Owing to the ParaTherm's robust and sleek design, it is ideally suited for either a permanent site in an Intensive Therapy Unit (ITU) or for use as a mobile device in the transport of patients.

Key Features:

- Automatic self-diagnostic to check temperature safety cut-off.
- Clear display panel and valved quick connection sites.
- Exceptionally quiet and environmentally friendly.
- A simple and precise operating system.
- Extremely safe and user friendly.

Service & Maintenance:

An extended warranty and service contract is available for the unit that provides a level of cover to guard against disruption to patient care.

The annual agreement provides the following:

- Electrical testing to the IEC 60601 safety standard (at least annually).
- Loan equipment while a unit is being serviced or repaired.
- All transport costs for collections and re-delivery.
- Complete internal clean and disinfect as per Chalice Medical's externally validated guidelines.



Terms and Conditions apply. Please speak to a Sales Manager for more information.

Specifications:

Power Voltage:	220 - 230 VAC, 50 / 60 Hz 115 VAC, 60 Hz
Setting Range for Water Temp:	15 - 39 °C
Water Content:	0.5 / 1.0 L (min / max)
Pumping Level:	Max. 5.5 L (min / max)
Cooling Time (20 - 15 °C):	5 - 10 min
Warming Up Time (20 - 37 °C):	5 - 10 min
Safety Cut Off:	41.1 - 41.5 °C
Weight:	17 kg (approx. empty water tank)
Dimensions:	200 x 290 x 440 mm

In contrast to larger traditional theatre heater/coolers, the ParaTherm benefits from employing a fully 'closed' water circulatory system. "In this type of closed heater cooler, air born transmission of Mycobacterium chimaera could not be demonstrated"¹.

A further advantage the ParaTherm offers over the larger theatre thermo-regulatory devices, is that it provides thermo-electric heating and cooling through non-fluid contact Peltier files. This replaces the need for harmful refrigerants or water submerged heating elements which are prone to calcification.

1) Trudzinski, F.C., Schlotthauer, U., Kamp, A., Hennemann, K., Muellenbach, R.M., Reischl, U., Gärtner, B., Wilkens, H., Bals, R., Herrmann, M., Lepper, P.M., and Becker S.L. (2016) 'Clinical implications of Mycobacterium chimaera detection in thermo-regulatory devices used for extracorporeal membrane oxygenation (ECMO), Germany, 2015 to 2016', in Euro Surveillance, p. 6.

Chalice recognises the need for extremely tight infection control. This is why we carry out a majority of routine service and maintenance work inside a purpose built dual-stage decontamination facility.

The dual-stage cleanrooms consist of a monitored and validated Class 8 negative pressure room and, a Class 7 positive pressure room as per the BS EN ISO 14644 standard. Both rooms use hepa-filters to screen out particulates down to 0.5µ (0.0005mm).

- Negative Pressure Room:

Decontamination begins in the negative pressure room, which houses an independently filtered lamina flow cabinet. This controlled environment allows the separation and containment of any potentially infected units - helping to reduce the risk of cross-contamination.



+ Positive Pressure Room:

Decontamination continues, along with other required maintenance inside the positive pressure room. This is done to isolate the equipment and units inside from the external environment - making every effort to return them back to their owners as clean and bacteria free as possible.



Work carried out inside the decontamination facility includes:

- The externally validated disinfection and cleaning process required for our ParaTherm heater/cooler.
- Stages of the routine maintenance and emergency repair service we undertake for the Abbott CentriMag™ hardware.
- Stages of the mandatory service/ maintenance for the Sechrist air/oxygen mixer.





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