

# How to Properly Clean your Helmer Scientific Equipment

Routine cleaning is essential in every healthcare setting. This document provides an overview for cleaning various surfaces and systems on your Helmer equipment, as well as a list of cleaners that have been tested for compatibility. To maintain personal and product safety, carefully follow this guide when cleaning your Helmer Scientific equipment. For additional information about components and surfaces on your specific equipment, review the operation manual/IFU and/or service manual. For any additional questions regarding the cleanability or cleaning processes, please contact the Helmer Technical Service team at [techservice@helmerinc.com](mailto:techservice@helmerinc.com)

**Important Note:** Before performing any type of maintenance on your Helmer equipment, be sure to protect items in the unit from extended exposure to adverse temperatures, when applicable.

## Exterior

**CAUTION:** Some equipment surfaces may be hot or sharp. Take care when cleaning to avoid injury.

Clean glass surfaces with a soft cotton cloth and glass cleaner. Clean exterior surfaces with a soft cotton cloth and non-abrasive liquid cleaner. Clean powder coated surfaces with a mild detergent. Clean stainless-steel surfaces with a general-purpose laboratory cleaner suitable for stainless steel.

**Important Things to Note:**

- If cleaning the water evaporation tray/heater; power the equipment off and allow the heater to cool before cleaning
- If cleaning around electrical components and wiring, or around moving parts, power the equipment off and allow the parts to stop moving before proceeding.
- Do not spray electrical components or pull on the wiring going to connectors

## Interior

Clean powder coated surfaces with a mild detergent. Clean stainless-steel surfaces with a general-purpose laboratory cleaner suitable for stainless steel.

## Condenser Grill

**CAUTION:** Disconnect equipment from AC power when cleaning. Surfaces may be sharp.

If the equipment is in an environment where it is exposed to excessive lint or dust, the condenser grill may require cleaning more frequently than stated in the preventive maintenance schedule. Clean the condenser grill using a soft brush and a vacuum cleaner. Wash or replace the filter if applicable.

## Door Gasket

Clean with a soft cloth and mild soap and water solution.

## Probe Bottles

Clean and refill or replace probe bottles regularly and as necessary.

1. Remove all probes from bottle.
2. Remove bottle from bracket and empty any remaining solution.
3. Clean bottle with a 10% bleach solution or an organization-approved equivalent oxidizing cleaner/disinfectant.
4. Refill bottle with product simulation solution (consult manual for details).
5. Cap bottle tightly to minimize evaporation.
6. Place bottle in bracket.
7. Replace probes, immersing at least 2" (50 mm).

## i.C<sup>3</sup>® Touchscreen

Clean the touchscreen with a soft, dry cotton cloth.

### Tested Cleaning Solutions

The table below includes cleaning agents that have been tested and verified as applicable for cleaning Helmer equipment.

Cleaning Agent	Dilution
10% Bleach	1 part bleach to 9 parts water
25% Bleach	1 part bleach to 3 parts water
70% Isopropyl Alcohol	No dilution required
99% Isopropyl Alcohol	
Lysol®	(1:256)
Cavicide®	
Microcide SQ®	(1:64)
Soft Scrub®	
Liqui-Nox®	(1:100)
Micro 90	(1:50)
Sporicidan®	
Branson®	(1:12)
Aseptizyme	1 oz/gallon water
Clorox Wipes	Not applicable
Clorox Healthcare Bleach Germicidal Cleaner	No dilution required
Hibiclens	25.6 oz/gallon water
LpH Disinfectant Cleaner	0.5 oz/gallon water
Maxima 128	1 oz/gallon water
Metrizyme	1 oz/gallon water
Mild Detergent	Per manufacturer's instructions as needed
Peridox RTU *	No dilution required
PREempt RTU	No dilution required
Super Sani-Cloth	Not applicable
Thymocide	Not applicable
Virkon	Per manufacturer's recommendation
Warm Water	Not applicable
Wexcide	1 oz/gallon water
Wexcide-Ready-To-Use	No dilution required
<b>Hand Sanitizers</b>	
Purell w/ 62% Alcohol	No dilution required
3M Avagard D	No dilution required
EcoLab Quik-Care	No dilution required

\* Not acceptable for use on drawer slides