

How to Properly Clean your Helmer Scientific Refrigerator

Before performing any type of maintenance on your Helmer Scientific refrigerators, be sure to protect items in the unit from extended exposure to adverse temperatures. This guide walks you through how to clean the cabinet interior and exterior, the evaporator tray, the electrical components, the condenser grill, the door gasket, the probe bottles, and the touch screen.

Cabinet Exterior

Clean glass surfaces with soft cotton cloth and glass cleaner or with non-shedding wipes and/or one of the Helmer Scientific approved cleaning solutions. Clean exterior surfaces with soft cotton cloth and non-abrasive liquid cleaner or with non-shedding wipes and/or one of the Helmer Scientific approved cleaning solutions.

CAUTION: The condensate evaporator and water evaporation tray are hot.

Important Things to Note:

- If cleaning the evaporator tray/heater; power the refrigerator off and allow the heater to cool before cleaning
- If cleaning around electrical components or wiring power the unit off first and do not spray with liquid or pull on wiring.

Cabinet Interior

Clean antimicrobial powder coated surfaces with mild detergent or solution as listed in the Tested Cleaning Solution table at the end of this document. Clean stainless-steel surfaces with a general-purpose laboratory cleaner suitable for stainless steel and/or one of the Helmer Scientific approved cleaning solutions.

Condensor Grill

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

CAUTION: Disconnect refrigerator from AC power when cleaning.

Door Gasket

Clean with soft cloth and mild soap and water solution.

Probe Bottles

Clean and refill 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 1:9 ratio of bleach to water solution or a company approved equivalent oxidizing cleaner/disinfectant.
4. Refill bottle with 4 oz. (120 mL) of product simulation solution (10:1 ratio of water to glycerin).
5. Cap bottle tightly to minimize evaporation.
6. Place bottle in bracket.
7. Replace probes, immersing at least 2" (50 mm).

i.C³® Touchscreen

Clean touchscreen with a soft, dry cotton cloth.



Routine cleaning is essential in every healthcare settings. Be sure to carefully follow this guide when cleaning your Helmer Scientific refrigerators for your safety and the safety of the products stored. If you have any additional questions around the cleanability or cleaning processes for your Helmer equipment, please contact techservice@helmerinc.com

Tested Cleaning Solutions

The below table represents those cleaning agents that have been tested and verified as applicable for cleaning Helmer Cold Storage devices.

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
Hand Sanitizers	
Purell w/ 62% Alcohol	No dilution required
3M Avagard D	No dilution required
EcoLab Quik-Care	No dilution required