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# Operator's Manual

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## Histology Freeze Plate

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## Introduction

The Histology Freeze Plate provides a fast-freezing surface that allows histotechnicians to observe tissue freezing and keep specimen edges flat. Its ultra-cold surface freezes samples quickly, reducing overall processing time by 40% or more.

Standard features include:

- Fixed -34.4°C (-30°F) working temperature
- 136 inch<sup>2</sup> (877 cm<sup>2</sup>) freezing surface that accommodates multiple samples simultaneously
- Simple operation and maintenance

## General Safety Information

When installed, operated, and maintained according to the directions in this manual and common safety procedures, your Histology Freeze Plate should provide safe and reliable operation. Please ensure that all individuals involved in the installation, operation, or maintenance of the Histology Freeze Plate read this manual thoroughly prior to working with the unit.

	This symbol marks chapters and sections of this instruction manual that are particularly relevant to safety. When attached to the unit, this symbol draws attention to the relevant section of the instruction manual.
	This symbol indicates that hazardous voltages may be present.
	This symbol marks information that is particularly important.
	This symbol indicates alternating current.
	This symbol on the Power Switch / Circuit Breaker indicates that it places the unit into a fully powered state.
	This symbol on the Power Switch / Circuit Breaker indicates that it disconnects power to the unit.
	This symbol indicates a protective conductor terminal.
<b>Read all instructions pertaining to safety, set-up, and operation. Proper operation is the user's responsibility.</b>	

## Safety Recommendations

To prevent injury to personnel and/or damage to property, always follow your workplace's safety procedures when operating this equipment. You should also comply with the following safety recommendations:

	<p><b>WARNING:</b></p> <ul style="list-style-type: none"><li>• Always connect the power cord on the Histology Freeze Plate to a grounded (3-prong) power outlet. Make certain that the outlet is the same voltage and frequency as your unit.</li><li>• Never operate the Histology Freeze Plate with a damaged power cord.</li><li>• Always turn the Histology Freeze Plate OFF and disconnect mains power before performing any maintenance or service.</li></ul>
	<p><b>WARNING:</b> The working surface reaches -34.4°C (-30°F). Avoid direct contact with skin while operating the unit. Always allow the surface to return to room temperature before cleaning or performing maintenance. Use the cover provided with the unit to prevent accidental contact while not in use.</p>
	<p><b>WARNING:</b> It is the user's responsibility to properly decontaminate the unit in the event hazardous materials are spilled on exterior or interior surfaces. Consult manufacturer if there is any doubt regarding the compatibility of decontamination or cleaning agents.</p>

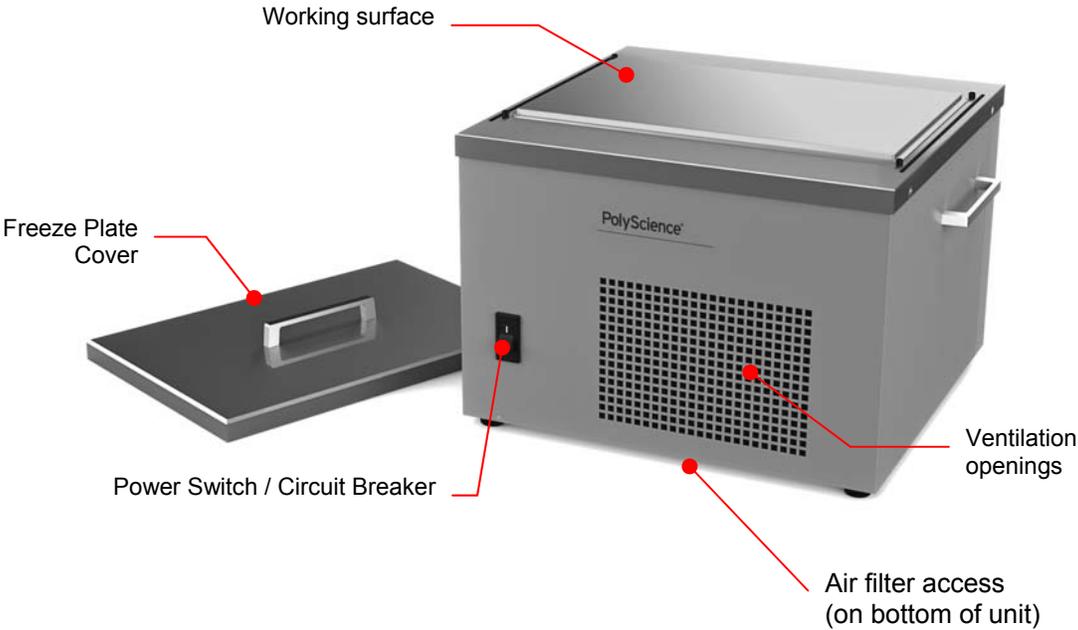
## Unpacking

Your Histology Freeze Plate is shipped in a special carton. Retain the carton and all packing materials until the unit is completely assembled and working properly. Set up and run the unit immediately to confirm proper operation. Beyond one week, your unit may be warranty repaired, but not replaced. If the unit is damaged or does not operate properly, contact the transportation company, file a damage claim and contact the company where your unit was purchased.

## Package Contents

- Histology Freeze Plate
- Freeze plate cover
- Power cord
- Operator's Manual

**Controls and Components**



## Setup

### Location

To allow for adequate ventilation, your Histology Freeze Plate should be placed so that the front and back of the unit are a minimum of 4 inches (10.2 cm) away from walls and vertical surfaces.

### Electrical Power

An IEC power cord is provided with the Histology Freeze Plate. It should be attached to the receptacle on the rear of the enclosure. Make sure that the power outlet used for the Histology Freeze Plate is properly grounded and matches the voltage and frequency of your unit.

The use of an extension cord is not recommended. However, if one is necessary, it must be properly grounded and capable of handling the total wattage of the unit. The extension cord must not cause more than a 10% drop in voltage to the Histology Freeze Plate.

## Operation

Place the Power Switch / Circuit Breaker on the front of the unit to the ON position. The working surface will begin cooling and achieve working temperature in approximately 10 to 15 minutes.



**WARNING:** The working surface reaches -34.4°C (-30°F). Avoid direct contact with skin while operating the unit. Always allow the surface to return to room temperature before cleaning or performing maintenance. Use the cover provided with the unit to prevent accidental contact while not in use.

## Routine Maintenance

### Cleaning

To remove residue and ice from the working surface while operating the unit, a non-metal spatula or scraper can be used. Pure grain alcohol may also be used to clean the working surface during operation.

The Histology Freeze Plate can be cleaned using a mild detergent. Be sure to turn electrical power to the unit OFF and allow working surface to return to ambient temperature before cleaning.



**CAUTION:** Avoid using water-based solutions to clean the working surface during operation as freezing will occur rapidly.

### Air Filter



**WARNING:** Be sure electrical power is OFF before proceeding.



**CAUTION:** DO NOT turn the Histology Freeze Plate on its side to access the air filter. Instead, position the unit so that the front overhangs the countertop approximately 2-3 inches (5.1-7.6 cm) so that the air filter can be accessed from the underside of the unit.

To keep the refrigeration system operating at optimum cooling capacity, the front and back air vents and reusable filter should be kept free of dust and dirt. They should be checked on a scheduled basis and cleaned as required.



Retaining Clips

Remove the filter for inspection and cleaning as follows:

1. Position the unit so that the front overhangs the countertop just enough to allow access to the filter compartment (approximately 2-3 inches / 5.1-7.6 cm).
2. Rotate the filter-retaining clips 90° to provide clear access to the filter (it may be necessary to first loosen the nuts with a 5/16" / 8 mm nut driver).
3. Grasp the filter with a needle-nose pliers and pull it about 1 inch / 2.54 cm out of the compartment.
4. Grasp the exposed portion of the filter with your fingers and gently pull it completely out of the filter compartment.
5. Use a mild detergent and water solution to wash off any accumulated dust and dirt and then rinse and dry thoroughly before reinstalling.

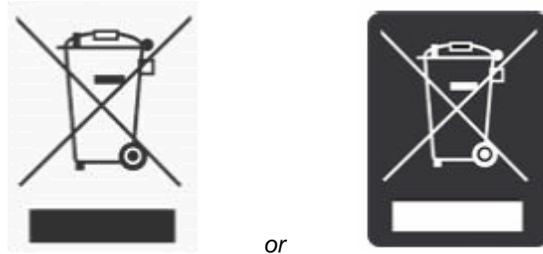
## Technical Information

### Performance Specifications

Peak Working Temperature:	-34.4°C (-30°F)
Working Surface Dimensions:	14.5 x 9.4 inches (36.8 x 23.8 cm)
Overall Dimensions (L x W x H):	15.9 x 18.4 x 10.5 inches (40.3 x 46.7 x 26.7 cm)
Shipping Weight:	76 lbs (34.4 kg)
Electrical Requirements:	120V, 60Hz, 6.5A 240V, 50Hz, 3.5A

Specifications subject to change without notice.

### Equipment Disposal (WEEE Directive)



This equipment is marked with the crossed out wheeled bin symbol to indicate it is covered by the Waste Electrical and Electronic Equipment (WEEE) Directive and is not to be disposed of as unsorted municipal waste. **Any products marked with this symbol must be collected separately, according to the regulatory guidelines in your area.**

It is your responsibility to correctly dispose of this equipment at lifecycle-end by handing it over to an authorized facility for separate collection and recycling. It is also your responsibility to decontaminate the equipment in case of biological, chemical and/or radiological contamination, so as to protect the persons involved in the disposal and recycling of the equipment from health hazards. By doing so, you will help to conserve natural and environmental resources and you will ensure that your equipment is recycled in a manner that protects human health.

Requirements for waste collection, reuse, recycling, and recovery programs vary by regulatory authority at your location. Contact your local responsible body (e.g., your laboratory manager) or authorized representative for information regarding applicable disposal regulations.

### Replacement Parts

Description	Part Number
Operator's Manual	110-825
Air Filter	305-014
Cover	510-526

## Service and Technical Support

If you have questions regarding your Histology Freeze Plate or it fails to operate properly, contact the supplier from whom the unit was purchased. Have the following information available for the customer service person:

- Model, Serial Number, and Voltage (from back panel label)
- Date of purchase and purchase order number
- Supplier's order number or invoice number
- A summary of the problem

## Warranty

The manufacturer agrees to correct for the original user of the product, either by repair (using new or refurbished parts), or at the manufacturer's election, by replacement (with a new or refurbished product), any defects in material or workmanship which develop during the warranty period. The standard warranty is twenty-four (24) months after delivery of the product. In the event of replacement, the replacement unit will be warranted for the remainder of the original warranty period or ninety (90) days, whichever is longer. For purposes of this limited warranty, "refurbished" means a product or part that has been returned to its original specifications. In the event of a defect, these are your exclusive remedies.

If the product should require service, contact the manufacturer's/supplier's office for instructions. When return of the product is necessary, a return authorization number is assigned and the product should be shipped, transportation charges pre-paid, in either its original packaging or packaging affording an equal degree of protection to the indicated service center. To insure prompt handling, the return authorization number must be placed on the outside of the package. A detailed explanation of the defect should be enclosed with the item.

The warranty shall not apply if the defect or malfunction was caused by accident, neglect, unreasonable use, improper service, acts of God, modification by any party other than the manufacturer, or other causes not arising out of defects in material or workmanship.

**EXCLUSION OF IMPLIED WARRANTIES.** THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXTEND BEYOND THE DESCRIPTION AND PERIOD AS STATED IN THE OPERATOR'S MANUAL INCLUDED WITH EACH PRODUCT.

**LIMITATION ON DAMAGES.** THE MANUFACTURER'S SOLE OBLIGATION UNDER THE WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT AND THE MANUFACTURER SHALL NOT, IN ANY EVENT, BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND RESULTING FROM USE OR POSSESSION OF THIS PRODUCT.

Some states do not allow: (A) limitations on how long an implied warranty lasts; or (B) the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights that vary from state to state.

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