

Electron Microscopy Sciences TP1050

User Manual: Activated Carbon Filter

Model: TP1050

Brand: Electron Microscopy Sciences

PRODUCT OVERVIEW

This document provides essential information for the proper use and maintenance of the Electron Microscopy Sciences Activated Carbon Filter, Model TP1050. This filter is designed to effectively absorb a wide range of organic and inorganic vapors in laboratory environments.



Figure 1: The Electron Microscopy Sciences Activated Carbon Filter, Model TP1050. This image shows the rectangular filter unit with a grid-like top surface, indicating the filtration area. The filter is black with white grid lines on top.

KEY FEATURES

- Contains high-grade activated carbon for efficient vapor absorption.
- Effective against a broad spectrum of organic and inorganic vapors, including xylene, formalin, methanol, toluene, and isopropyl alcohol.
- Designed for use with tissue processors, specifically compatible with the Leica TP1020 for formaldehyde applications.

SETUP AND INSTALLATION

The Activated Carbon Filter TP1050 is intended for integration into compatible laboratory equipment. Follow the specific

instructions provided by the manufacturer of your tissue processor for proper installation.

1. Identify the filter compartment within your tissue processor (e.g., Leica TP1020).
2. Ensure the equipment is powered off and disconnected from the main power supply before proceeding.
3. Carefully remove the old filter, if present, following the equipment manufacturer's guidelines for safe disposal of hazardous waste.
4. Insert the new Electron Microscopy Sciences Activated Carbon Filter TP1050 into the designated compartment, ensuring it is seated correctly and securely.
5. Close the filter compartment and secure any latches or covers.
6. Reconnect the equipment to power and power it on.

Note: Refer to your specific tissue processor's user manual for detailed, model-specific installation procedures.

OPERATING INSTRUCTIONS

The activated carbon filter operates passively within the tissue processor's ventilation system. No direct user interaction is required for its operation once installed.

- Ensure the tissue processor's ventilation system is functioning correctly as per its operational manual.
- The filter continuously absorbs vapors during the equipment's operation.

MAINTENANCE

Regular replacement of the activated carbon filter is crucial for maintaining effective vapor absorption and ensuring a safe laboratory environment.

- **Replacement Interval:** The Activated Carbon Filter TP1050 should be replaced every **3 months** under normal operating conditions.
- **Signs of Saturation:** If a noticeable odor of chemicals becomes present in the laboratory despite the filter's presence, it indicates that the filter may be saturated and requires immediate replacement, regardless of the 3-month interval.
- **Disposal:** Dispose of used filters according to local regulations for hazardous waste, as they will contain absorbed chemical vapors.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Chemical odors present in the lab.	Filter is saturated or improperly installed.	Replace the filter. Ensure proper installation as per the "Setup and Installation" section. Check the tissue processor's ventilation system.
Filter does not fit into equipment.	Incorrect filter model or incompatible equipment.	Verify that the filter model (TP1050) is compatible with your specific tissue processor (e.g., Leica TP1020). Contact your supplier if unsure.

SPECIFICATIONS

Attribute	Detail
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Attribute	Detail
Product Name	Activated Carbon Filter
Model Number	TP1050
Manufacturer	Electron Microscopy Sciences (EMS)
Manufacturer Part Number	62654-03
Compatibility	Tissue Processor TP1020 (for formaldehyde)
Recommended Replacement	Every 3 months
Primary Function	Absorption of organic and inorganic vapors (e.g., xylene, formalin, methanol, toluene, isopropyl alcohol)

WARRANTY AND SUPPORT

For specific warranty information and technical support regarding the Activated Carbon Filter TP1050, please contact Electron Microscopy Sciences (EMS) directly or your authorized distributor.

Manufacturer: EMS

Refer to the manufacturer's official website or product packaging for the most current contact details and warranty terms.

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