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Sartorius YSH34

Sartorius YSH34 Filter Holder Instruction Manual

For Cubis II Ultra-Micro and Micro Balances, 50 mm Diameter

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of the Sartorius YSH34 Filter Holder. This accessory is specifically designed to enhance the functionality of Sartorius Cubis II Ultra-Micro and Micro Balances, enabling precise weighing of filters up to 50 mm in diameter. Adhering to these guidelines will ensure optimal performance and longevity of your equipment.

2. PRODUCT OVERVIEW

The Sartorius YSH34 Filter Holder is a specialized accessory engineered to facilitate the accurate weighing of delicate filters. Its design ensures stable placement and compatibility with the advanced weighing technology of Cubis II balances, thereby optimizing measurement performance.



Figure 1: The Sartorius YSH34 Filter Holder. This image displays the filter holder, which is a circular accessory with a central aperture, designed to securely hold filters for precise weighing on compatible Sartorius Cubis II balances.

3. SETUP INSTRUCTIONS

Follow these steps to properly install the filter holder onto your Sartorius Cubis II balance:

- 1. Preparation:** Ensure your Cubis II balance is switched off and unplugged from the power source. Clean the weighing pan area to remove any dust or debris.
- 2. Access Weighing Chamber:** Carefully open the weighing chamber doors of your Cubis II balance.
- 3. Remove Existing Pan (if applicable):** If a standard weighing pan is currently installed, gently lift and remove it. Refer to your balance's manual for specific instructions.
- 4. Position Filter Holder:** Place the Sartorius YSH34 Filter Holder onto the balance's weighing pan support. Ensure it sits flat and is securely centered. The holder is designed to fit precisely.
- 5. Verify Stability:** Gently press down on the filter holder to confirm it is stable and does not wobble.
- 6. Close Chamber:** Close the weighing chamber doors.
- 7. Power On:** Plug in and switch on your Cubis II balance. Allow it to warm up and perform its self-calibration routine as per the balance's operating manual.

4. OPERATING INSTRUCTIONS

Once the filter holder is installed, follow these steps for accurate filter weighing:

- Tare the Balance:** With the filter holder in place and the weighing chamber closed, tare the balance to zero. This compensates for the weight of the holder.
- Prepare Filter:** Carefully handle the filter using tweezers to avoid contamination or damage. Ensure the filter is conditioned according to your laboratory's standard operating procedures (e.g., dried, desiccated).
- Place Filter:** Open the weighing chamber doors and gently place the filter onto the designated area of the filter holder. Ensure the filter lies flat and is centered.
- Close Chamber:** Close the weighing chamber doors immediately to minimize air currents and environmental influences.
- Read Measurement:** Wait for the balance reading to stabilize. Record the displayed weight.
- Remove Filter:** After recording, open the chamber, carefully remove the filter with tweezers, and close the chamber.

5. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your filter holder.

- Cleaning:** Regularly clean the filter holder using a soft, lint-free cloth. For stubborn residues, a mild detergent solution or isopropyl alcohol can be used, followed by thorough drying. Avoid abrasive cleaners or solvents that could damage the material.
- Inspection:** Periodically inspect the filter holder for any signs of damage, deformation, or wear that could affect its stability or the accuracy of measurements.
- Storage:** When not in use, store the filter holder in a clean, dry, and dust-free environment, preferably in its original packaging or a protective container, to prevent contamination and damage.

6. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Issue	Possible Cause	Solution
Unstable Balance Readings	Air currents, vibrations, or improper seating of the holder/filter.	Ensure weighing chamber doors are closed. Check for external vibrations. Re-seat the filter holder and filter.
Filter Not Sitting Flat	Filter creased or improperly placed.	Carefully re-position the filter using tweezers. Ensure the filter is not damaged.
Inaccurate Weighing	Balance not tared, contamination, or damaged holder.	Tare the balance before placing the filter. Clean the holder and filter. Inspect holder for damage.

7. SPECIFICATIONS

Key technical specifications for the Sartorius YSH34 Filter Holder:

Specification	Detail
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Specification	Detail
Accessory Type	Filter Holder
Compatible Balances	Sartorius Cubis II Ultra-Micro and Micro Balances
Filter Diameter	Up to 50 mm
Material	PLA (Polylactic Acid), PE (Polyethylene)
Item Weight	1.2 pounds (approx.)
Manufacturer	COLE-PARMER (as listed by retailer)

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Sartorius YSH34 Filter Holder, please contact Sartorius customer service or your authorized Sartorius distributor. Keep your purchase receipt and product details readily available when contacting support.

You can typically find contact information on the official Sartorius website or through the retailer from whom the product was purchased.

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