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Walfront Wal front5kc1308hrq

Walfront 25ml Pipette Pump User Manual

Model: Wal front5kc1308hrq

1. INTRODUCTION

Thank you for choosing the Walfront 25ml Pipette Pump. This manual provides essential information for the safe and effective use of your new laboratory instrument. The pipette pump is designed for precise and easy handling of liquids with disposable plastic and glass pipettes up to 25ml capacity. It is an indispensable tool for various scientific and laboratory applications requiring accurate liquid transfer.



Figure 1: Walfront 25ml Pipette Pump (Red)

This image shows the Walfront 25ml Pipette Pump in its entirety, featuring its red body and white operational components. A white cap is also visible next to the pump.

2. SAFETY INFORMATION

Always adhere to standard laboratory safety procedures when using this pipette pump. Failure to do so may result in injury or damage to the equipment.

- Wear appropriate personal protective equipment (PPE), including safety glasses, lab coats, and gloves, when handling chemicals.
- Never pipette by mouth. Always use a mechanical pipetting aid like this pump.

- Ensure pipettes are securely attached to prevent accidental detachment and spills.
- Dispose of contaminated pipettes and liquids according to laboratory waste disposal protocols.
- Do not use the pipette pump with highly corrosive or volatile substances without proper ventilation and safety precautions.
- Avoid dropping the instrument, as this may cause damage to its internal mechanisms.

3. PRODUCT COMPONENTS

The Walfront 25ml Pipette Pump consists of several key parts designed for intuitive operation:

- **Main Body:** The red cylindrical housing of the pump.
- **Thumb Wheel:** A white, serrated wheel located at the top, used for precise aspiration and dispensing of liquids.
- **Side Lever (Drainage Button):** A white lever on the side, used for rapid dispensing of the entire pipette contents.
- **Cone Nozzle:** The white tip at the bottom where the pipette is inserted.
- **Internal Piston/Rack:** The mechanism inside that moves in response to the thumb wheel, creating suction or pressure.



Figure 2: Key Components of the Pipette Pump

This image highlights the 'Rotated thumb wheel' for precise control, the 'Cone nozzle' for pipette attachment, and the 'Drainage

button' for rapid dispensing.

4. SETUP INSTRUCTIONS

Follow these steps to prepare your pipette pump for use:

1. **Unpack:** Carefully remove the pipette pump from its packaging. Inspect for any visible damage.
2. **Select Pipette:** Choose a disposable plastic or glass pipette compatible with the 25ml capacity of the pump.
3. **Insert Pipette:** Gently insert the wide end of the pipette into the cone nozzle of the pump. Apply slight pressure and twist gently to ensure a secure, airtight seal. Avoid forcing the pipette, as this may damage the nozzle or the pipette.



Figure 3: Close-up of the Cone Nozzle

This image provides a detailed view of the white cone nozzle, where the pipette is inserted, showing its internal structure designed for a secure fit.

5. OPERATING INSTRUCTIONS

The Walfront Pipette Pump offers precise and rapid liquid handling:

5.1. Drawing Liquid (Aspiration)

1. Immerse the tip of the pipette into the liquid to be aspirated.
2. Rotate the **thumb wheel** upwards (towards the top of the pump). This action will draw the liquid into the pipette with precision. Continue rotating until the desired volume is reached.

5.2. Dispensing Liquid (Controlled)

1. Position the pipette tip over the receiving vessel.
2. Rotate the **thumb wheel** downwards (towards the pipette tip). This will dispense the liquid slowly and precisely.

5.3. Rapid Dispensing

1. To quickly dispense the entire contents of the pipette, press the **side lever (drainage button)**. This will release the vacuum and allow the liquid to flow out rapidly.



Figure 4: Pipette Pump Dispensing Liquid

This image shows the red pipette pump with a clear pipette attached, dispensing a single drop of liquid into a test tube, illustrating its use in a laboratory setting.

6. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and accuracy of your pipette pump.

- **Cleaning:** After each use, especially when handling corrosive or biological liquids, remove the pipette and wipe the exterior of the pump with a damp cloth or a mild disinfectant solution. For internal cleaning, if necessary, consult with your lab's safety officer regarding appropriate cleaning agents for the materials of construction.
- **Storage:** Store the pipette pump in a clean, dry, and dust-free environment, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the cone nozzle for any signs of wear or damage that might compromise the airtight seal.
- **Avoid Solvents:** Do not immerse the entire pump in solvents or water unless specifically designed for such cleaning, as this may damage internal components.

7. TROUBLESHOOTING

If you encounter issues with your pipette pump, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Liquid not drawing or dispensing properly.	Loose pipette connection, air leak, or blockage.	Ensure the pipette is securely inserted into the cone nozzle to create an airtight seal. Check the pipette tip for blockages.
Pipette difficult to insert or remove.	Misalignment or residue in the nozzle.	Ensure the pipette is aligned correctly before insertion. Apply gentle, even pressure. Clean the cone nozzle if residue is present. Avoid forcing.
Thumb wheel feels stiff or sticky.	Accumulation of dust or dried liquid.	Wipe the thumb wheel and surrounding area with a clean, damp cloth. If the issue persists, contact customer support.

8. SPECIFICATIONS

- **Product Name:** Pipette Pump
- **Brand:** Walfront
- **Model:** Wal front5kc1308hrq
- **Color:** Red
- **Capacity:** Up to 25ml
- **Compatibility:** Disposable plastic and glass pipettes
- **Approximate Dimensions:** 3.94 x 3.94 x 3.94 inches (Product dimensions may vary slightly)
- **Approximate Weight:** 1.41 ounces

9. WARRANTY INFORMATION

Specific warranty details for the Walfront 25ml Pipette Pump may vary depending on the retailer and region of purchase. Please retain your proof of purchase and refer to the warranty information provided at the time of purchase or contact your retailer directly for details regarding warranty coverage and terms.

10. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding your Walfront 25ml Pipette Pump, please contact Walfront customer service through their official website or the retailer from whom you purchased the product.

You may also visit the Walfront Store on Amazon for more information:[Walfront Store](#)
