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ICRPSTU ICRPSTUzp9bqyo8hw

Mini Copper Burning Light User Manual

Brand: **ICRPSTU** | Model: **ICRPSTUzp9bqyo8hw**

1. Introduction

Thank you for choosing the ICRPSTU Mini Copper Burning Light. This compact and durable lamp is designed to serve as a reliable heat source for various scientific experiments, including hot air Stirling engines and steam engine models. Its robust copper construction ensures safety and longevity.

Figure 1.1: The ICRPSTU Mini Copper Burning Light, showcasing its compact design and prominent wick.

2. Safety Information

Please read and understand all safety instructions before using the burning light. Improper use can lead to fire hazards or injury.

- **Fuel Not Included:** This lamp requires fuel (not included) to operate. Use only appropriate lamp oil or denatured alcohol. Do not use gasoline or other highly volatile fuels.
- **Fire Hazard:** Always operate the lamp on a stable, non-flammable surface, away from combustible materials.
- **Extinguishing:** To extinguish the flame, cover the fire source with a damp cloth. Do not blow out the flame.

- **Handling:** The lamp will become hot during operation. Allow it to cool completely before handling or refilling.
- **Supervision:** Never leave a burning lamp unattended. Keep out of reach of children and pets.
- **Ventilation:** Use in a well-ventilated area.

3. Package Contents

Verify that all items are present in your package:

- 1 x Mini Copper Burning Light (consisting of lamp body and wick assembly)

4. Setup

Follow these steps to prepare your burning light for use:

4.1. Filling the Lamp

1. Carefully separate the top wick assembly from the main copper body.
2. Fill the copper body with an appropriate lamp oil or denatured alcohol. Do not overfill; leave a small air gap at the top.
3. Insert the wick assembly back into the lamp body, ensuring it is securely seated.

Figure 4.1: The lamp disassembled, illustrating its all-copper construction which is safe and durable.

4.2. Adjusting the Wick

The length of the exposed wick controls the flame size. A longer wick produces a larger flame, and a shorter wick produces a smaller flame.

- Allow the wick to soak in the fuel for a few minutes before first use to ensure it is fully saturated.
- Gently pull or push the wick through the opening to adjust its length. Start with a small exposed wick for a controlled flame.

Figure 4.2: A hand demonstrating how to handle the wick assembly for adjustment or refilling.

5. Operating Instructions

Once set up, the burning light is ready for operation.

5.1. Lighting the Lamp

1. Ensure the lamp is on a stable, heat-resistant surface.
2. Using a long match or lighter, carefully ignite the tip of the wick.
3. Observe the flame. If it is too large or too small, extinguish the lamp and adjust the wick length as described in Section 4.2.

5.2. Using as a Heat Source

The Mini Copper Burning Light is ideal for providing a consistent heat source for small-scale scientific models.

- Position the lamp directly beneath the component requiring heat (e.g., the cylinder of a Stirling engine or the boiler of a steam engine).

- Monitor the experiment and adjust the flame size as needed for optimal performance.

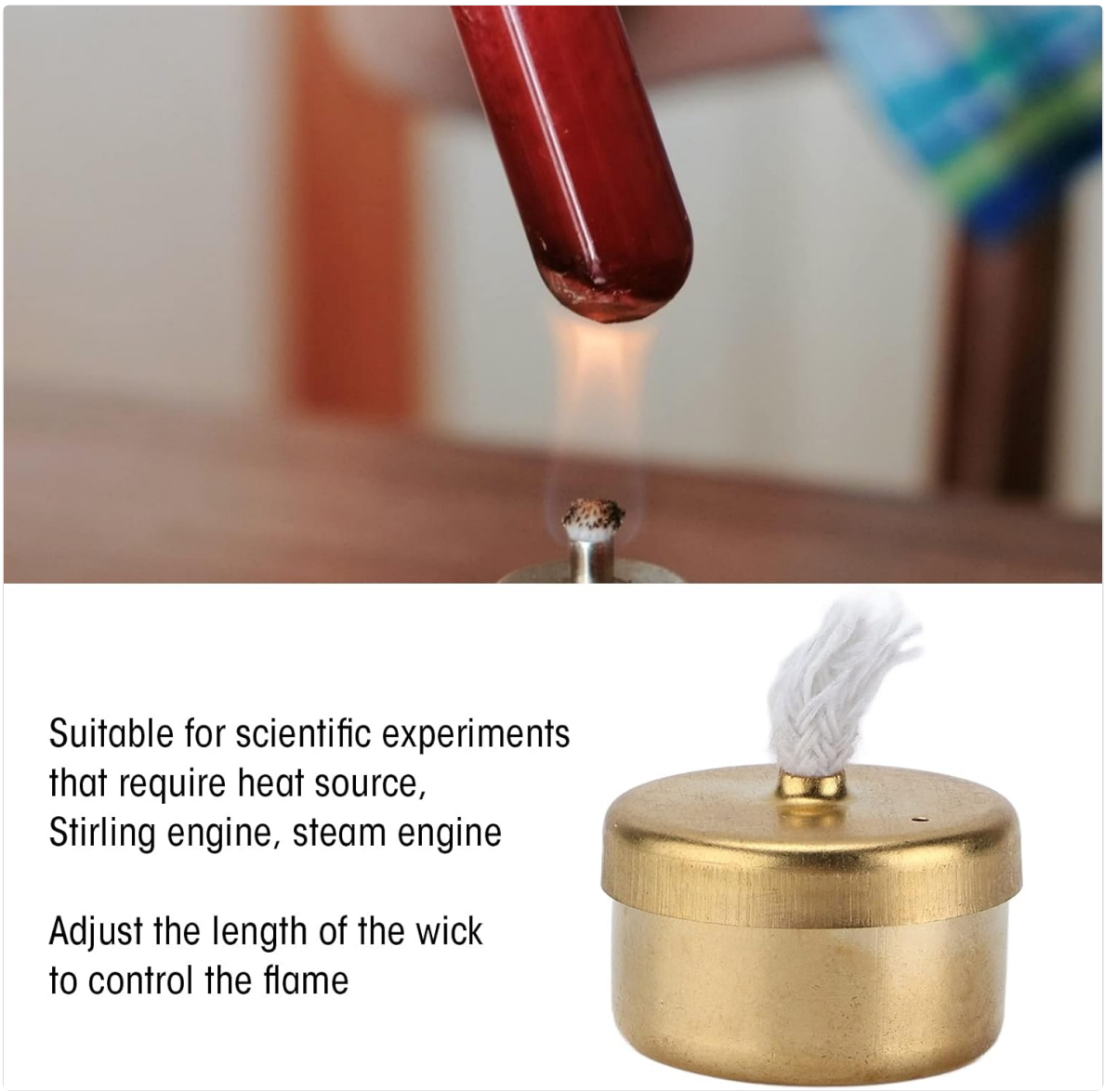

Figure 5.1: The burning light in action, demonstrating its use as a heat source for scientific experiments.

5.3. Extinguishing the Lamp

To safely extinguish the flame:

- Place a damp, non-flammable cloth or a small metal snuffer directly over the flame until it is extinguished.
- Do not attempt to blow out the flame, as this can spread hot fuel.
- Allow the lamp to cool completely before storing.

6. Maintenance

Proper maintenance will ensure the longevity and safe operation of your burning light.

- **Cleaning:** The copper material can be polished with a soft cloth to maintain its luster. Avoid abrasive cleaners.
- **Wick Replacement:** Over time, the wick may become charred or worn. If the wick no longer provides a consistent flame or is too short to adjust, it can be replaced with a suitable cotton wick.
- **Storage:** When not in use, ensure the lamp is empty of fuel and stored in a cool, dry place away from

direct sunlight and heat sources.

7. Troubleshooting

If you encounter issues with your burning light, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Lamp won't light or flame is very small.	Wick not saturated; wick too short; no fuel.	Ensure wick is soaked; pull out more wick; refill lamp with fuel.
Flame is too large or smoky.	Wick too long; incorrect fuel type.	Push wick further into lamp; ensure correct fuel is used.
Lamp goes out quickly.	Low fuel level; wick not drawing fuel properly.	Refill lamp; ensure wick is properly positioned and saturated.

8. Specifications

Detailed specifications for the ICRPSTU Mini Copper Burning Light:

Attribute	Detail
Item Type	Burning Light
Brand	ICRPSTU
Model Number	ICRPSTUzp9bqyo8hw
Material	Copper
Product Size	Approx. 2.7 x 1.6 cm (1.1 x 0.6 in)
Item Weight	Approx. 17g (0.6 oz)
Color	#211 (Copper finish)
Country of Origin	China
Primary Use	Scientific experiments, hot air Stirling engines, steam engines

Figure 8.1: Product dimensions: Approximately 2.7 cm (1.1 inches) in diameter and 1.6 cm (0.6 inches) in height.

9. Warranty and Support

For warranty information or technical support, please contact the seller or manufacturer directly through your purchase platform. Keep your proof of purchase for any warranty claims.

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