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> [Circrane](#) /

> Circrane Maple Syrup Hydrometer SH-BZ-005 Instruction Manual

## Circrane SH-BZ-005

# Circrane Maple Syrup Hydrometer Instruction Manual

Model: SH-BZ-005

## INTRODUCTION

The Circrane Maple Syrup Hydrometer is designed for accurately measuring the sugar and moisture content of maple syrup. It features both BRIX and Baume scales, providing precise readings for both hot and cold syrup tests. This manual provides instructions for proper use, maintenance, and care of your hydrometer to ensure optimal performance and longevity.

## PACKAGE CONTENTS

Upon opening your Circrane Maple Syrup Hydrometer package, please verify that all the following items are included:

- 1 x Double Scale Maple Syrup Hydrometer
- 1 x Sturdy Storage Case (for hydrometer protection)
- 1 x Instruction Sheet with Scale Conversion Chart
- 1 x Microfiber Cleaning Cloth

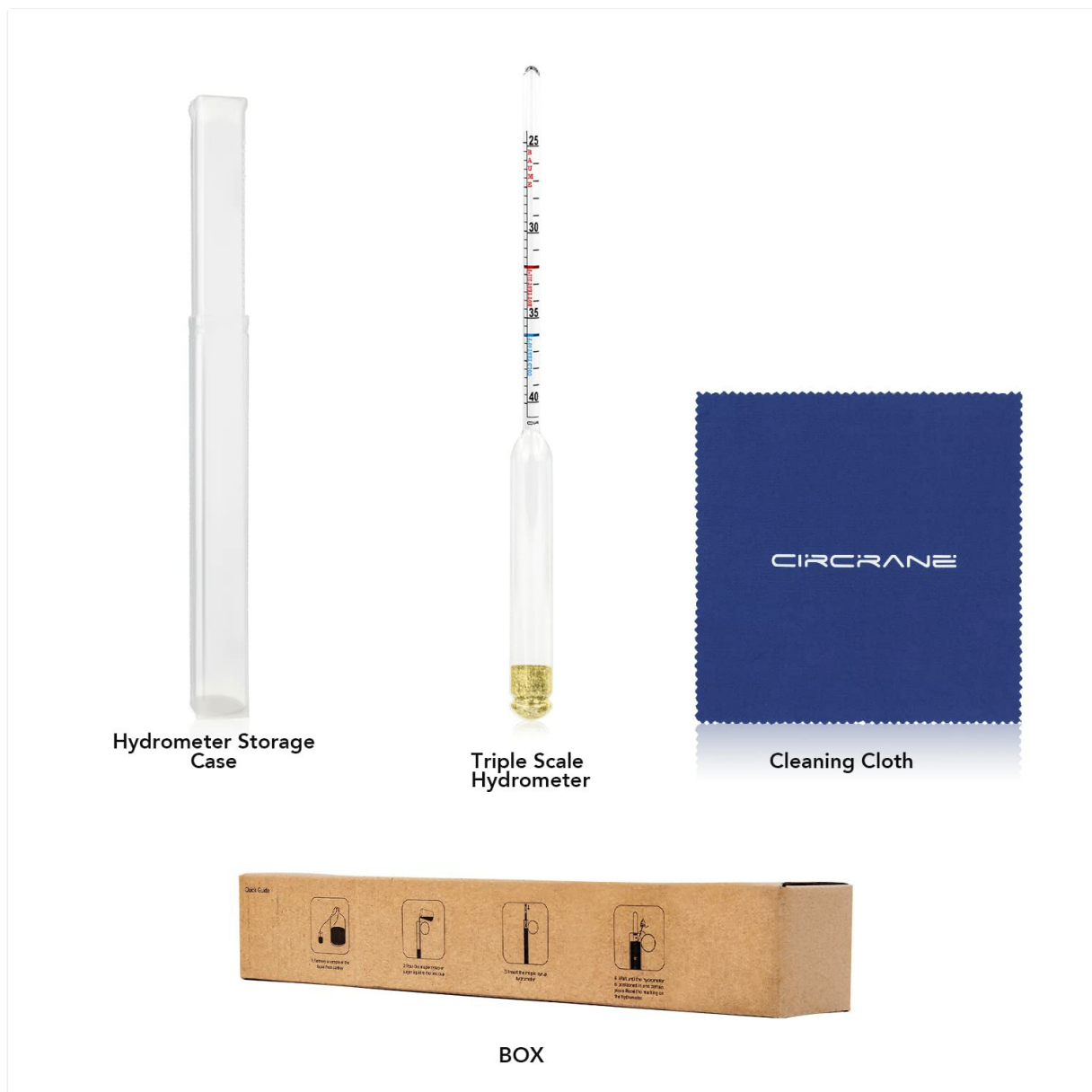


Image: Components included in the Cirrane Maple Syrup Hydrometer package.

## PRODUCT FEATURES

- **Double Baume and BRIX Scales:** Equipped with both Baume and BRIX scales, featuring red and blue lines for quick reference during hot and cold tests.
- **Durable Construction:** Engineered with thicker glass for enhanced durability.
- **Safe Materials:** Contains 99.95% pure tin, free from toxic heavy metals like lead and mercury.
- **High Transparency:** Made from high transparency glass for clear readings.
- **Precision:** Features an exquisite hand-blown design with a high precision scale for accurate measurements.



## Double Baume and BRIX scales with easy read Red & Blue lines for quick test

**BRIX**  
Measurement  
45-75

**Baume**  
Measurement  
25-40

Image: Detailed view of the hydrometer's double Baume and BRIX scales, indicating hot and cold test lines.



### Characteristic:

- 1 High transparency glass
- 2 Exquisite hand blown
- 3 High precision scale
- 4 99.95% pure tin, lead and mercury free

Image: Key characteristics of the hydrometer's construction and materials.

## SETUP

Before using your hydrometer, ensure it is clean and at room temperature. Familiarize yourself with the BRIX and Baume scales and the corresponding red and blue lines for hot and cold tests, respectively. The included instruction sheet provides a scale conversion chart for reference.



Image: The hydrometer positioned next to maple syrup, illustrating its intended use.

## OPERATING INSTRUCTIONS

To accurately measure the sugar content of maple syrup, follow these steps:

- 1. Prepare Sample:** Pour a sample of maple syrup into a tall, narrow container, such as a hydrometer test jar. Ensure there is enough liquid for the hydrometer to float freely without touching the bottom or sides.
- 2. Temperature Consideration:** The hydrometer is calibrated for specific temperatures. Use the red line for hot syrup tests (typically around 211°F / 99.4°C) and the blue line for cold syrup tests (typically around 60°F / 15.6°C). Accurate temperature is crucial for correct readings.
- 3. Gently Immerse:** Carefully lower the hydrometer into the syrup sample. Allow it to float freely and come to rest. Avoid dropping it, as this can cause damage or inaccurate readings due to air bubbles.
- 4. Read the Scale:** Once the hydrometer is stable, read the scale at the point where the surface of the syrup intersects the stem. For hot syrup, read the red scale. For cold syrup, read the blue scale. Ensure your eye is level with the liquid surface to avoid parallax error.
- 5. Record Reading:** Note down the BRIX or Baume reading. Refer to the included conversion chart if you need to convert between scales or adjust for slight temperature variations.

# CIRCRANE



99.95% pure tin without toxic heavy metals



Image: The base of the hydrometer, highlighting the pure tin construction.

## MAINTENANCE

Proper maintenance ensures the accuracy and longevity of your Circrane Hydrometer.

- **Cleaning:** After each use, rinse the hydrometer thoroughly with warm water to remove any syrup residue. Use the provided microfiber cleaning cloth to gently wipe the glass. Avoid abrasive cleaners or harsh scrubbing, which can scratch the glass or damage the scales.
- **Drying:** Allow the hydrometer to air dry completely before storing.
- **Storage:** Always store the hydrometer in its sturdy protective case when not in use. This prevents accidental breakage and keeps it clean. Store in a cool, dry place away from direct sunlight or extreme temperatures.

## TROUBLESHOOTING

### **Hydrometer does not float or sinks completely:**

This typically indicates that the liquid density is either too low or too high for the hydrometer's range, or the temperature is significantly off. Ensure the syrup is within the expected BRIX/Baume range for

maple syrup and that the temperature matches the calibration (hot or cold test). Verify the hydrometer is clean and free of air bubbles that might affect buoyancy.

### Inconsistent readings:

Ensure the hydrometer is clean, free of air bubbles, and floating freely without touching the container walls. Verify the syrup temperature is stable and matches the scale being read (red for hot, blue for cold). Parallax error (reading the scale from an angle) can also cause inconsistencies; always read at eye level.

## SPECIFICATIONS

- **Model Number:** SH-BZ-005
- **Manufacturer:** Cirrane
- **Scales:** BRIX and Baume (Double Scale)
- **Material:** High transparency glass, 99.95% pure tin (lead and mercury free)
- **Package Dimensions:** 12.48 x 2.13 x 2.05 inches
- **Item Weight:** 4.16 ounces (0.12 Kilograms)
- **Item Volume:** 250 Milliliters

## DIMENSIONS

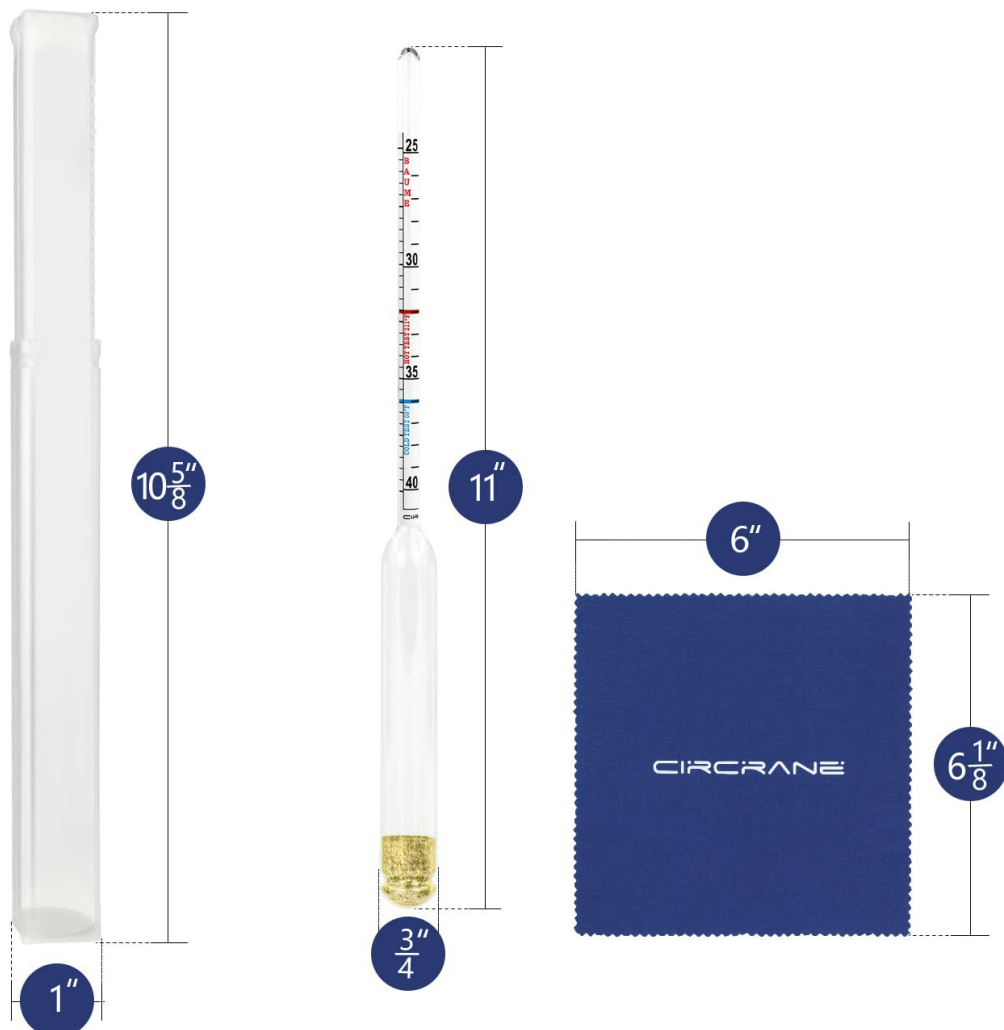


Image: Dimensional overview of the hydrometer and its accessories.

## WARRANTY AND SUPPORT

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Circrane provides a quality assurance warranty for up to one year from the date of purchase. If your hydrometer is broken or any accessory is lost during shipping, please contact us directly. We are committed to providing a free replacement for any such issues.

For further assistance or inquiries, please refer to the contact information provided on the product packaging or the official Circrane website.