

Cole-Parmer 96-Well PCR Cooler

Cole-Parmer 96-Well PCR Cooler Instruction Manual

Model: 96-Well, for 0.2 mL, 0.5 mL tubes & 96-well plates

1. INTRODUCTION

The Cole-Parmer 96-Well PCR Cooler is designed to provide ice-free cooling for various laboratory samples, including standard and low-profile 96-well plates, 0.2 mL, and 0.5 mL PCR tubes, strips, and single formats. This device ensures samples remain at optimal temperatures without freezing, making it ideal for sensitive PCR applications.

Key Features:

- Cools samples efficiently and maintains temperature for extended periods on the benchtop.
- Capable of maintaining an entire 96-well plate at 0 °C for over one hour.
- Compact design allows for space-saving storage and stacking.
- Patented lid design ensures secure storage and safe transport of PCR samples.
- Vented lid facilitates faster cooling of samples when placed in a freezer.
- Visual temperature indicator changes color when the internal temperature exceeds 6 °C, signaling the need to return samples to a colder environment.



Image 1.1: Cole-Parmer 96-Well PCR Cooler. This image displays the cooler with its distinctive pink and blue color scheme, designed for laboratory use.

2. SETUP

Initial Preparation:

1. Before first use, ensure the PCR cooler is clean and dry. Refer to the Maintenance section for cleaning instructions.
2. For optimal performance, pre-cool the PCR cooler in a freezer at -20°C for at least 4-6 hours, or until the internal temperature indicator shows a stable cold state (e.g., no color change indicating warmth).
3. Ensure the lid is securely closed during pre-cooling to maximize efficiency.

3. OPERATING INSTRUCTIONS

Sample Placement:

- Once pre-cooled, remove the cooler from the freezer.
- Carefully slide out the detachable lid. The lid can rotate 180° and serve as a stand for the cooler, providing convenient access to samples.
- Place your 96-well plates, 0.2 mL, or 0.5 mL PCR tubes into the designated wells. The alphanumeric well identification assists in quick location and retrieval of tubes.
- Ensure samples are seated properly within the wells for efficient temperature transfer.

Temperature Maintenance:

- The cooler is designed to maintain a temperature of 0°C for over an hour for a full 96-well plate.
- With the lid removed, the cooler can maintain sample temperatures below 5°C for up to three hours.

- For prolonged cooling, keep the lid closed when not actively accessing samples.

Visual Temperature Indicator:

- The cooler features a visual indicator that changes color when the internal temperature exceeds 6 °C.
- A contrasting color change indicates that the cooler is no longer maintaining the desired cold temperature and samples should be returned to a freezer or refrigerator.

4. MAINTENANCE

Care and Cleaning:

- Clean the PCR cooler regularly with a mild detergent and water.
- Rinse thoroughly with distilled water and allow to air dry completely before storage or next use.
- Avoid using abrasive cleaners or solvents, as these may damage the cooler's surface or the temperature indicator.
- The detachable polycarbonate lid is ambidextrous and can be cleaned separately.

Storage:

- Store the cooler in a clean, dry place when not in use.
- For long-term storage, ensure the cooler is completely dry to prevent mold or mildew growth.

5. TROUBLESHOOTING

Common Issues:

- **Cooler not maintaining temperature:** Ensure the cooler was pre-cooled sufficiently (at least 4-6 hours at -20 °C). Verify the lid is securely closed when not accessing samples.
- **Color change indicator not visible:** The indicator changes color when the temperature exceeds 6 °C. If the cooler is sufficiently cold (below 6 °C), the indicator will show its 'cold' state. If it's warm and no change is visible, inspect the indicator for damage.
- **Lid difficult to slide or rotate:** Check for any debris or obstructions in the lid's track. Clean the lid and cooler body as per maintenance instructions.

6. SPECIFICATIONS

Specification	Value
Capacity	96 wells
Compatible Tube Sizes	0.2 mL, 0.5 mL PCR tubes & 96-well plates
Minimum Temperature Maintained	0 °C (for over an hour with lid closed)
Temperature Indicator Threshold	6 °C
Dimensions (Length)	11 cm (4.3 in)
Dimensions (Width)	14.8 cm (5.8 in)
Dimensions (Height)	4.8 cm (1.9 in)

Specification	Value
Item Weight	1.4 pounds
Manufacturer	COLE-PARMER

7. WARRANTY INFORMATION

This Cole-Parmer PCR Cooler is covered by a manufacturer's warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the official Cole-Parmer website or contact their customer support directly. Please retain your proof of purchase for warranty claims.

8. SUPPORT AND CONTACT INFORMATION

For technical assistance, product inquiries, or to report any issues, please contact Cole-Parmer customer support. You can find comprehensive support resources, FAQs, and contact details on their official website:

[Visit the Cole-Parmer Store on Amazon](#)

Alternatively, search for "Cole-Parmer official website" to access their main support portal.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

