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> Oversteel ZIRCON 240mm RGB Liquid Cooling System User Manual

## Oversteel NAT-OV-WC-ZIRCON-240

# Oversteel ZIRCON 240mm RGB Liquid Cooling System User Manual

Model: NAT-OV-WC-ZIRCON-240

## 1. PRODUCT OVERVIEW

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The Oversteel ZIRCON 240mm RGB Liquid Cooling System is designed to provide efficient and reliable cooling for your PC, ensuring optimal performance for gaming and demanding applications. Featuring vibrant RGB lighting and high-quality components, this all-in-one (AIO) liquid cooler is compatible with a wide range of Intel and AMD processors.



Figure 1.1: Front view of the Oversteel ZIRCON 240mm RGB Liquid Cooling System, highlighting the two 120mm RGB fans and the illuminated pump block.



Figure 1.2: Angled view of the Oversteel ZIRCON cooler, showing the braided tubing connecting the pump to the radiator and the Oversteel logo on the radiator frame.



Figure 1.3: Another angled perspective of the cooler, emphasizing the vibrant RGB lighting of the fans and the compact design of the pump block.

## 2. KEY FEATURES

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- **Rainbow RGB Ambient Lighting:** Customize your PC's aesthetics with dynamic and vibrant RGB effects on both fans and the pump.
- **Wide Compatibility:** Supports Intel processors up to 11th generation and AMD processors up to AM4 socket, ensuring broad system integration.
- **Quality Materials:** Constructed with durable and high-quality materials for enhanced longevity and superior cooling performance.
- **Easy Installation:** Designed for straightforward setup, with all necessary mounting hardware included for a hassle-free installation process.
- **Efficient Heat Dissipation:** Capable of handling up to 200W TDP, providing effective cooling for high-performance CPUs.

### 3. PACKAGE CONTENTS

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Please verify that all components are present before beginning installation. If any items are missing or damaged, please contact Oversteel support.

- 1x Oversteel ZIRCON 240mm Liquid Cooler (Radiator with integrated pump and tubing)
- 2x 120mm PWM RGB Fans
- Mounting Hardware Kit for Intel (LGA 1150/1151/1155/1156/1366/1200/2011/2011-3/2066)
- Mounting Hardware Kit for AMD (AM4)
- 1x Thermal Paste Tube
- Fan Screws and Radiator Screws
- RGB Controller/Cables (if applicable, based on standard AIO inclusions)

### 4. SETUP AND INSTALLATION

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The Oversteel ZIRCON 240mm Liquid Cooling System is designed for easy installation. **Please note: A detailed physical instruction manual is not included in the package.** For comprehensive installation steps, including diagrams and video guides, please refer to the official Oversteel website. A QR code linking to the installation page is provided on a card within the product packaging.

**General Installation Steps (Refer to official guide for details):**

1. **Prepare your System:** Power off your computer and disconnect all cables. Open your PC case.
2. **Mount Radiator and Fans:** Attach the 120mm RGB fans to the radiator using the provided screws. Secure the assembled radiator and fans to an available 240mm mounting location in your PC case (e.g., front, top).
3. **Prepare CPU Socket:** Clean the CPU surface thoroughly. Apply the included thermal paste to the center of your CPU.
4. **Install Pump Block:** Select the appropriate mounting bracket for your Intel or AMD CPU socket. Secure the pump block onto your CPU, ensuring even pressure.
5. **Connect Cables:** Connect the pump power cable to your motherboard's CPU\_FAN or AIO\_PUMP header. Connect the fan PWM cables to available fan headers on your motherboard. Connect the RGB cables to your motherboard's RGB header or a dedicated RGB controller.
6. **Cable Management:** Route all cables neatly to ensure proper airflow and a clean build.
7. **Final Checks:** Double-check all connections before closing your PC case and powering on your system.

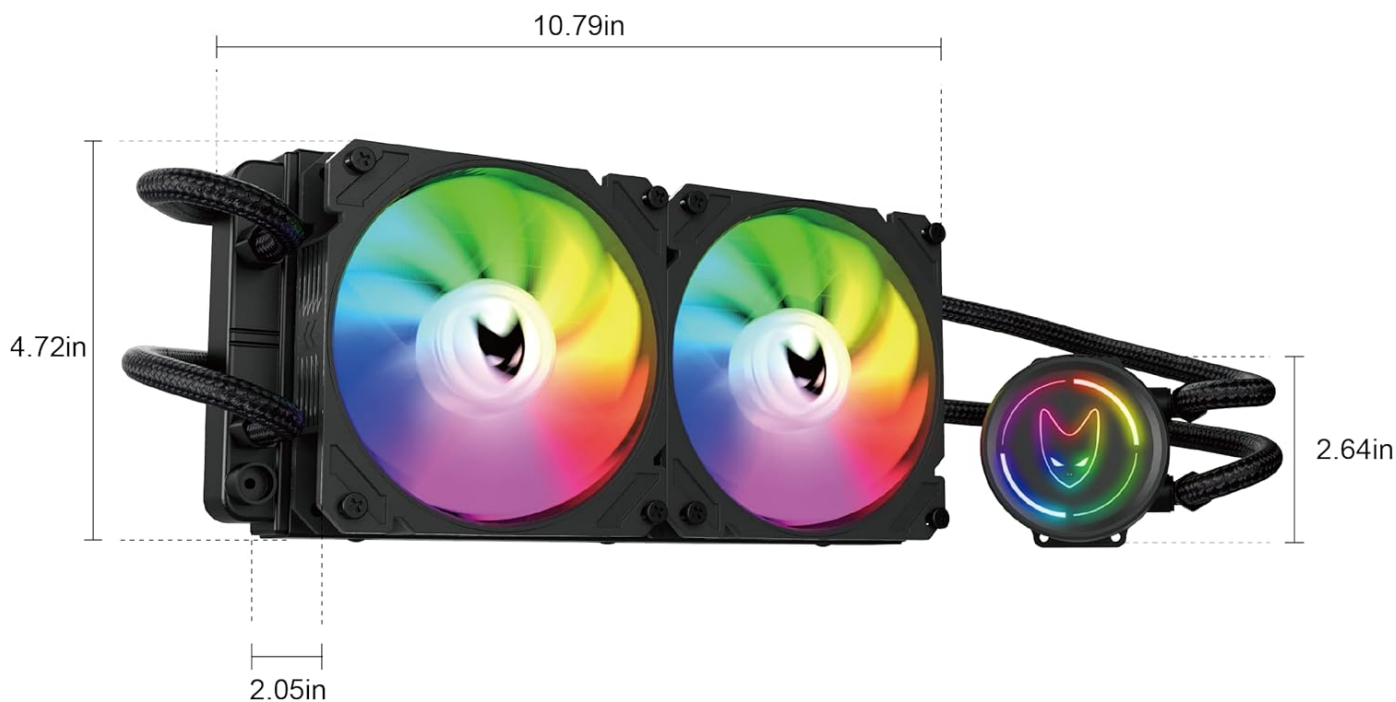


Figure 4.1: Product dimensions, showing the length of the radiator (approximately 10.79 inches) and the height of the pump block (approximately 2.64 inches).

## 5. OPERATING INSTRUCTIONS

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Once installed, the Oversteel ZIRCON liquid cooler operates automatically, regulating fan and pump speeds based on CPU temperature to maintain optimal cooling performance. The RGB lighting will illuminate upon system power-on.

- **Fan Control:** The PWM fans will adjust their speed according to the CPU temperature, controlled by your motherboard's BIOS settings or fan control software.
- **RGB Control:** The rainbow RGB lighting can typically be synchronized and controlled via your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion) if connected to a compatible header. Refer to your motherboard's manual for specific RGB control instructions.
- **Noise Levels:** Under normal operation, the cooler is designed to be quiet. During high CPU loads, fan speeds will increase, which may result in a noticeable but generally acceptable level of airflow noise (rated at 30 dB).

## 6. MAINTENANCE

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Regular maintenance helps ensure the longevity and optimal performance of your liquid cooling system.

- **Dust Removal:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure the system is powered off before cleaning.
- **Check Tubing and Connections:** Inspect the tubing and connections for any signs of leaks or damage. While the system is sealed, a visual check can prevent potential issues.
- **Thermal Paste:** Re-applying thermal paste is generally not required unless the cooler is removed from the CPU. If you remount the cooler, always clean off old thermal paste and apply new paste.

## 7. TROUBLESHOOTING

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If you encounter issues with your Oversteel ZIRCON liquid cooler, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
<b>High CPU Temperatures</b>	<p>Poor thermal paste application</p> <p>Pump not functioning</p> <p>Fans not spinning or spinning too slowly</p> <p>Radiator clogged with dust</p>	<p>Re-apply thermal paste, ensuring even spread.</p> <p>Check pump power connection (CPU_FAN/AIO_PUMP header).</p> <p>Verify fan connections and BIOS fan settings.</p> <p>Clean radiator fins with compressed air.</p>
<b>Fans or Pump Not Lighting Up</b>	<p>RGB cables disconnected</p> <p>Incorrect RGB header connection</p> <p>Software issue</p>	<p>Ensure all RGB cables are securely connected.</p> <p>Verify connection to the correct 3-pin ARGB or 4-pin RGB header on your motherboard.</p> <p>Check motherboard RGB software settings.</p>
<b>Excessive Noise</b>	<p>Fans spinning at maximum speed</p> <p>Loose fan screws</p> <p>Pump noise</p>	<p>Adjust fan curves in BIOS or fan control software.</p> <p>Tighten fan screws.</p> <p>Ensure pump is securely mounted and not vibrating against the case.</p>

## 8. SPECIFICATIONS

Feature	Detail
<b>Brand</b>	Oversteel
<b>Model Number</b>	NAT-OV-WC-ZIRCON-240
<b>Cooler Type</b>	All-in-One (AIO) Liquid Cooler
<b>Radiator Size</b>	240mm
<b>Fan Size</b>	2x 120mm PWM RGB Fans
<b>TDP Support</b>	Up to 200W
<b>Compatible Sockets (Intel)</b>	LGA 1150/1151/1155/1156/1366/1200/2011/2011-3/2066
<b>Compatible Sockets (AMD)</b>	AM4
<b>RGB Lighting</b>	Rainbow RGB (Fans & Pump)
<b>Fan Speed (Max)</b>	2800 RPM
<b>Noise Level</b>	30 dB (max)
<b>Power Connector Type</b>	3-pin (Pump), PWM (Fans)
<b>Voltage</b>	12 Volts
<b>Power Consumption</b>	3 Watts
<b>Material</b>	Polycarbonate (Pump/Housing), Aluminum (Radiator)
<b>Product Dimensions (L x W x H)</b>	Approx. 27.4cm x 12cm x 6.7cm (10.79in x 4.72in x 2.64in)

## 9. WARRANTY AND SUPPORT

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Oversteel products are manufactured to high-quality standards. For warranty information, technical support, or any inquiries regarding your Oversteel ZIRCON Liquid Cooling System, please visit the official Oversteel website or contact their customer service directly. Keep your proof of purchase for warranty claims.

**Official Oversteel Website:** [www.oversteel.com](http://www.oversteel.com)

