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## Thermaltake CL-W107-PL12SW-A

# Thermaltake WATER 3.0 Dual Riing RGB 240 AIO Water Cooling System User Manual

Model: CL-W107-PL12SW-A | Brand: Thermaltake

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Thermaltake WATER 3.0 Dual Riing RGB 240 All-In-One (AIO) Liquid CPU Cooler. This high-performance cooling system is designed to efficiently dissipate heat from your CPU, ensuring stable and optimal performance for your desktop computer.

Please read this manual thoroughly before installation and keep it for future reference.

## 2. PRODUCT OVERVIEW AND COMPONENTS

The Thermaltake WATER 3.0 Dual Riing RGB 240 AIO cooler consists of a radiator, two 120mm Riing RGB fans, a pump/cold plate assembly, and various mounting hardware. Below are the main components:

- **Radiator:** A 240mm aluminum radiator designed for efficient heat exchange.
- **Riing RGB Fans:** Two 120mm high static pressure fans with customizable RGB lighting.
- **Pump/Cold Plate:** An integrated unit that circulates coolant and transfers heat from the CPU. Features a copper base for optimal thermal conductivity.
- **Tubing:** Durable, low-evaporation tubing connecting the pump to the radiator.
- **Controller:** A dedicated controller for managing fan speed and RGB lighting effects.
- **Mounting Hardware:** Brackets, screws, and backplates for various CPU sockets.



Figure 2.1: Complete Thermaltake WATER 3.0 Dual Riing RGB 240 AIO Liquid CPU Cooler system, showing the radiator with two RGB fans, the pump/cold plate unit, and the fan/RGB controller.



Figure 2.2: Detailed view of the two 120mm Riing RGB fans attached to the radiator, highlighting their design and lighting capabilities.



Figure 2.3: View of the 240mm aluminum radiator's fin array, designed for efficient heat dissipation.



Figure 2.4: Top view of the integrated pump and cold plate unit, featuring the Thermaltake Water 3.0 logo.



Figure 2.5: Bottom view of the pump/cold plate unit, revealing the highly conductive copper base that makes direct contact with the CPU.



Figure 2.6: The dedicated RGB fan controller, featuring buttons for adjusting fan speed, pausing lighting effects, and changing lighting modes.



Figure 2.7: Included mounting hardware, comprising various brackets, screws, and standoffs necessary for installation on different CPU sockets.

### 3. SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and unplugged. Refer to your motherboard manual for specific CPU socket information.

#### 3.1. Prepare the Radiator and Fans

1. Attach the two 120mm Riing RGB fans to the 240mm radiator using the provided long screws. Ensure the fan airflow direction is appropriate for your case (typically exhausting air out of the case or drawing air in).
2. Connect the fan cables to the fan controller.

#### 3.2. Install the Radiator

1. Mount the radiator assembly to an available 240mm fan mount location in your PC case (e.g., top, front, or rear). Use the short screws provided for this step.
2. Ensure there is sufficient clearance for the radiator and tubing.

#### 3.3. Prepare the CPU Socket

1. For Intel sockets (LGA 115x/1200/2011/2066): Install the appropriate backplate behind your motherboard. Secure the standoffs onto the motherboard through the CPU mounting holes.
2. For AMD sockets (AM4/AM3+/AM3/AM2+/AM2/FM2+/FM2/FM1): Use the stock AMD backplate if available, or install the provided AMD backplate. Attach the correct AMD mounting clips to the pump/cold plate unit.
3. Clean the CPU surface with isopropyl alcohol to remove any old thermal paste or residue.
4. Apply a small amount of thermal paste (pea-sized dot) to the center of your CPU's Integrated Heat Spreader (IHS).

### 3.4. Install the Pump/Cold Plate

1. Carefully align the pump/cold plate unit over the CPU, ensuring the mounting holes align with the standoffs/clips.
2. Gently lower the pump onto the CPU, applying even pressure.
3. Secure the pump/cold plate unit using the provided thumb screws or nuts, tightening them in a diagonal pattern until snug. Do not overtighten.
4. Connect the pump's 3-pin power cable to an available CPU\_FAN or AIO\_PUMP header on your motherboard.

### 3.5. Connect the Controller

1. Connect the fan cables from the radiator to the fan controller.
2. Connect the controller's power cable to a SATA power connector from your power supply.
3. If desired, connect the controller to an available USB 2.0 header on your motherboard for software control (check product specifications for software compatibility).



Figure 3.1: The Thermaltake AIO cooler fully installed within a desktop PC chassis, demonstrating proper placement of the radiator, fans, and pump unit.

## 4. OPERATING INSTRUCTIONS

Once installed, the Thermaltake WATER 3.0 Dual Riing RGB 240 AIO cooler will automatically begin cooling your CPU upon system startup. The Riing RGB fans and pump are powered via the connected cables.

### 4.1. Fan and RGB Control

The included controller allows for manual adjustment of fan speed and RGB lighting effects. Refer to Figure 2.6 for button layout.

- **SPEED Button:** Press to cycle through different fan speed profiles (e.g., Silent, Performance, Max).
- **PLAY/PAUSE Button:** Press to pause or resume the current RGB lighting effect.
- **MODE Button:** Press to cycle through various RGB lighting modes (e.g., Static, Pulse, Rainbow, Wave).

For advanced control and customization, if your controller supports it, install the Thermaltake software (available from the official Thermaltake website) and connect the controller to your motherboard's USB 2.0 header. This software allows for fine-tuning of fan curves, custom RGB effects, and monitoring of system temperatures.

## 5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your AIO liquid cooler.

- **Dust Removal:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure the fans are not spinning rapidly during cleaning to prevent damage to bearings.
- **Tubing Inspection:** Visually inspect the tubing for any signs of kinks, leaks, or damage. While AIOs are sealed systems, regular checks are recommended.
- **Thermal Paste:** Re-applying thermal paste is generally not required unless the cooler is removed from the CPU. If you re-install the cooler, clean the old thermal paste and apply new paste.
- **Pump Noise:** A slight hum from the pump is normal. If you notice unusual grinding or gurgling noises, it may indicate air bubbles. Gently tilt your PC case while running to help dislodge air bubbles. If the noise persists or performance degrades, consult troubleshooting.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
High CPU Temperatures	<ul style="list-style-type: none"> <li>• Improper thermal paste application</li> <li>• Pump not functioning</li> <li>• Fans not spinning or spinning too slowly</li> <li>• Radiator clogged with dust</li> </ul>	<ul style="list-style-type: none"> <li>• Re-apply thermal paste, ensuring even spread.</li> <li>• Check pump power connection (3-pin to CPU_FAN/AIO_PUMP header).</li> <li>• Verify fan connections to controller and controller power (SATA). Adjust fan speed via controller or software.</li> <li>• Clean radiator fins with compressed air.</li> </ul>
Fans/RGB not lighting up	<ul style="list-style-type: none"> <li>• Loose connections</li> <li>• Controller not powered</li> <li>• Faulty controller or fans</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure all fan and controller cables are securely connected.</li> <li>• Check SATA power connection to the controller.</li> <li>• Test fans/controller if possible, or contact support.</li> </ul>
Unusual Pump Noise (Gurgling/Grinding)	<ul style="list-style-type: none"> <li>• Air bubbles in the loop</li> <li>• Pump malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Gently tilt and shake the PC case while running to help move air bubbles to the radiator.</li> <li>• If noise persists and performance is affected, contact Thermaltake support.</li> </ul>

## 7. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Brand	Thermaltake
Model Number	CL-W107-PL12SW-A
Cooling Method	Water
Radiator Size	240mm
Fan Type	Riing RGB High Static Pressure Fans
Noise Level	17 dB (typical)
Power Connector Type	3-Pin (Pump), SATA (Controller)
Voltage	12 Volts
Wattage	3 Watts
Material	Aluminum, Rubber, Copper
Compatible Devices	Desktop (various Intel/AMD sockets)
Product Dimensions (LxWxH)	34.29 x 24.77 x 13.34 cm
Item Weight	1.68 kg
Included Components	Water cooling system, radiator, cables, mounting hardware

## 8. WARRANTY AND SUPPORT

Thermaltake products are manufactured to the highest quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Thermaltake website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the Thermaltake support portal or contact their customer service directly. Keep your proof of purchase handy when contacting support.

**Official Thermaltake Website:** [www.thermaltake.com](http://www.thermaltake.com)