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> PCCOOLER GI-CL240VC 240mm RGB AIO CPU Liquid Cooler User Manual

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PCCOOLER GI-CL240VC 240mm RGB AIO CPU Liquid Cooler User Manual

Model: GI-CL240VC | Brand: PCCOOLER

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your PCCOOLER GI-CL240VC 240mm RGB All-in-One (AIO) CPU Liquid Cooler. Please read this manual thoroughly before installation to ensure correct setup and optimal performance. Retain this manual for future reference.



Figure 1.1: PCCOOLER GI-CL240VC 240mm RGB AIO CPU Liquid Cooler with dual fans and pump.

2. PACKAGE CONTENTS

Verify that all components are present in the package before beginning installation. If any items are missing or damaged, contact your retailer or PCCOOLER support.

- 240mm Radiator with Integrated Pump and Cold Plate
- Two 120mm RGB PWM Fans
- Intel Mounting Bracket Kit (for LGA 1700/1200/115X/2011/2066)
- AMD Mounting Bracket Kit (for AM5/AM4/AM3+/AM3/AM2+/AM2/FM2+/FM2/FM1)
- Fan Screws and Radiator Mounting Screws
- Thermal Paste (pre-applied or in a tube)
- Fan Splitter Cable
- RGB Controller Cable (if applicable)
- User Manual



Figure 2.1: Illustration of the PCCOOLER GI-CL240VC cooler components, including radiator, fans, and pump.

3. SAFETY INFORMATION

Observe the following safety guidelines during installation and operation:

- Ensure your computer system is powered off and unplugged from the wall outlet before installation.
- Handle components with care to avoid damage.
- Avoid touching the fan blades while they are spinning.
- Do not attempt to open the pump or radiator, as this may void the warranty and cause leaks.
- Keep the product away from liquids and extreme temperatures.

4. SETUP AND INSTALLATION

Follow these steps carefully for proper installation. The process involves mounting the radiator, fans, and CPU block to your motherboard and case.

4.1. Prepare the Radiator and Fans

1. Attach the two 120mm RGB PWM fans to the radiator using the long fan screws. Ensure the fan airflow direction is appropriate for your case (typically blowing air through the radiator and out of the case, or into the case).
2. Connect the fan power cables to the included fan splitter cable, then connect the splitter to a CPU_FAN or SYS_FAN header on your motherboard.
3. If your fans have RGB cables, connect them to the RGB controller cable or directly to a compatible motherboard RGB header.



Figure 4.1: Enhanced nine-blade dual fans with RGB lighting.

4.2. Install the Radiator in Your PC Case

Mount the assembled radiator and fans to an available 240mm mounting location in your PC case (e.g., top, front, or side panel) using the shorter radiator mounting screws.



Figure 4.2: The 240mm radiator component of the liquid cooler.

4.3. Prepare the CPU Block for Your CPU Socket

Select the appropriate mounting bracket for your CPU socket (Intel or AMD) and attach it to the pump/cold plate unit. Refer to the specific instructions below for your CPU type.



Figure 4.3: Universal metal mounting kits and detailed view of the S-shaped radiator fins.

4.3.1. Intel Socket Installation (LGA 1700/1200/115X/2011/2066)

1. Install the Intel backplate onto the rear of your motherboard, aligning the holes with the CPU socket.
2. Secure the standoffs through the motherboard holes into the backplate.
3. Ensure the thermal paste is applied to the CPU IHS (Integrated Heat Spreader). If pre-applied, remove the protective film from the cold plate.
4. Place the CPU block onto the CPU, aligning the mounting holes with the standoffs.
5. Secure the CPU block with the provided thumb screws, tightening them in a diagonal pattern until snug. Do not overtighten.

4.3.2. AMD Socket Installation (AM5/AM4/AM3+/AM3/AM2+/AM2/FM2+/FM2/FM1)

1. Remove the plastic retention clips from the stock AMD backplate (if present). The stock AMD backplate is typically used.
2. Install the AMD standoffs onto the stock backplate.
3. Ensure the thermal paste is applied to the CPU IHS. If pre-applied, remove the protective film from the cold plate.
4. Place the CPU block onto the CPU, aligning the mounting holes with the standoffs.
5. Secure the CPU block with the provided thumb screws, tightening them in a diagonal pattern until snug. Do not overtighten.



Figure 4.4: Close-up view of the CPU block with mounting hardware.



Figure 4.5: Minimalist style CPU block featuring RGB lighting.

4.4. Connect Pump Power

Connect the pump's 3-pin or 4-pin power cable to the CPU_OPT or AIO_PUMP header on your motherboard. Ensure the pump is receiving full power for optimal performance.

5. OPERATING INSTRUCTIONS

Once installed, the PCCOOLER GI-CL240VC operates automatically. The pump and fans will adjust their speed based on CPU temperature, controlled by your motherboard's BIOS settings or dedicated software.

- **Initial Power On:** After completing installation, power on your system. Check for any unusual noises or leaks.
- **BIOS/UEFI Settings:** Access your motherboard's BIOS/UEFI to ensure the CPU_FAN or AIO_PUMP header is set to PWM mode and configured for optimal cooling performance.
- **RGB Control:** If connected to a compatible motherboard RGB header, use your motherboard's RGB software to customize lighting effects. If an external controller is used, refer to its specific instructions.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your liquid cooler.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Ensure fans are not spinning during cleaning.
- **Cable Management:** Ensure all cables are neatly routed and not obstructing airflow or fan operation.
- **Leak Inspection:** While AIO coolers are sealed, occasionally inspect the tubing and connections for any signs of leakage.
- **Thermal Paste:** For long-term use (typically every 3-5 years), consider reapplying thermal paste to the CPU for optimal heat transfer.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **High CPU Temperatures:**
 - Ensure the CPU block is securely mounted and making full contact with the CPU.
 - Verify that the pump is running (check BIOS/UEFI or listen for a faint hum).
 - Confirm fans are spinning and correctly oriented for airflow.
 - Check if thermal paste was applied correctly.
- **Fans Not Spinning/RGB Not Working:**
 - Check all fan and RGB cable connections to the motherboard or controller.
 - Ensure fan headers in BIOS/UEFI are configured correctly.
 - Verify RGB software settings.
- **Unusual Noise:**
 - Identify if the noise is from fans (check for obstructions or loose screws) or the pump.
 - A slight gurgling sound initially is normal as air bubbles settle. If persistent, ensure the radiator is mounted higher than the pump.

8. SPECIFICATIONS

Feature	Specification
Model	GI-CL240VC
Brand	PCCOOLER
Radiator Size	240mm
Fan Size	120mm (x2)
Max Rotational Speed	1600 RPM
Noise Level	30 Decibels
Cooling Method	Water
Material Type	Copper (Cold Plate)
Power Connector Type	4-Pin (Fans), 3/4-Pin (Pump)
Compatible Devices	Desktop
Compatible Sockets	Intel LGA 1700/1200/115X/2011/2066, AMD AM5/AM4/AM3+/AM3/AM2+/AM2/FM2+/FM2/FM1

9. WARRANTY AND SUPPORT

PCCOOLER products come with a limited warranty. For detailed warranty information, please refer to the warranty card included with your product or visit the official PCCOOLER website. If you require technical assistance or have questions regarding your GI-CL240VC cooler, please contact PCCOOLER customer support through their official channels.