COUGAR AQUA ARGB 240

COUGAR Aqua ARGB 240 All-in-One RGB Liquid Cooling Series User Manual

Model: AQUA ARGB 240

1. INTRODUCTION

The COUGAR Aqua ARGB 240 is an all-in-one liquid cooling solution designed to provide efficient thermal management for your desktop PC's CPU. Featuring Addressable RGB (ARGB) lighting, it enhances your system's aesthetics while maintaining optimal operating temperatures. This manual provides detailed instructions for installation, operation, and maintenance to ensure the best performance and longevity of your cooler.

2. KEY FEATURES

- **Efficient Liquid Cooling:** Utilizes a 240mm radiator and two high-performance fans for superior heat dissipation.
- **Vibrant ARGB Lighting:** Customizable Addressable RGB lighting on the pump head and fans, compatible with motherboard sync technologies.
- **Durable Construction:** Cold plate made of copper and durable rubber tubing with sleeves for enhanced longevity and reliability.
- **Low Noise Operation:** Designed to operate quietly with an acoustic noise level of 39.55 dBA (Max.).
- **High Pump Speed:** Pump operates at 3200 ± 10% RPM for effective coolant circulation.

3. PACKAGE CONTENTS

Please verify that all components are present before proceeding with installation.

- COUGAR Aqua ARGB 240 AIO Cooler (Radiator, Pump/Cold Plate, Tubing)
- 2 x 120mm ARGB Fans
- Mounting Hardware for Intel Sockets (LGA 115X/1200/1700/2011/2066)
- Mounting Hardware for AMD Sockets (AM4/AM5/TR4)
- Thermal Paste (pre-applied or tube)

- ARGB Controller (if not relying on motherboard sync)
- User Manual (this document)

4. SETUP AND INSTALLATION

Before installation, ensure your system is powered off and unplugged. Refer to your motherboard and PC case manuals for specific mounting locations and clearances.

4.1. Prepare the CPU Socket

Install the appropriate backplate for your CPU socket (Intel or AMD) onto the motherboard. Secure it with the provided standoffs.

4.2. Install Radiator and Fans

Mount the two 120mm ARGB fans to the radiator using the long screws. Ensure the fan airflow direction is as desired (typically exhausting air out of the case or intaking air into the case). Then, mount the radiator assembly to an available 240mm radiator mount in your PC case (e.g., top, front, or side).

Image 1: COUGAR Aqua ARGB 240 AIO cooler showing the radiator with two fans and the pump/cold plate unit.

Image 2: Top-down view of the COUGAR Aqua ARGB 240 AIO cooler, highlighting the two ARGB fans and the illuminated pump block.

4.3. Mount the Pump/Cold Plate

Apply thermal paste to the CPU's integrated heat spreader (IHS) if not pre-applied to the cold plate. Carefully place the pump/cold plate assembly onto the CPU, aligning the mounting holes with the standoffs. Secure the pump with the retention screws, tightening them in a cross pattern until snug.

Image 3: Angled view of the COUGAR Aqua ARGB 240 AIO cooler, showing the radiator, fans, and pump from a side perspective.

Image 4: Close-up view of the COUGAR Aqua ARGB 240 pump block and a portion of the radiator, emphasizing the ARGB lighting on the pump.

4.4. Connect Cables

- Connect the pump's 3-pin or 4-pin power cable to the CPU_FAN or AIO_PUMP header on your motherboard.

- Connect the fan power cables to available fan headers on your motherboard or a fan controller.

- Connect the ARGB cables from the pump and fans to a 5V Addressable RGB header on your motherboard or the included ARGB controller. Ensure correct polarity to avoid damage.

Image 5: Detailed view of one of the COUGAR Aqua ARGB fans, showcasing its translucent blades and vibrant RGB illumination.

Image 6: View of a COUGAR Aqua ARGB fan with its lighting off, revealing the design of the fan blades and frame.

5. OPERATING INSTRUCTIONS

Once installed, the COUGAR Aqua ARGB 240 operates automatically to cool your CPU. The pump and fans will adjust their speeds based on CPU temperature, as controlled by your motherboard's BIOS/UEFI settings or dedicated software.

5.1. RGB Lighting Control

The Addressable RGB lighting can be controlled in two primary ways:

- **Motherboard Sync:** If connected to a compatible 5V ARGB header on your motherboard, you can control the lighting effects using your motherboard manufacturer's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync).
- **ARGB Controller:** If your motherboard lacks an ARGB header or you prefer standalone control, use the included ARGB controller (if applicable) to cycle through various lighting modes, colors, and speeds. Refer to the controller's specific instructions for operation.

Note: Ensure that the 5V ARGB connection is correctly made. Connecting to a 12V RGB header will damage the ARGB components.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of your liquid cooler.

- **Dust Removal:** Periodically clean the radiator fins and fan blades to prevent dust buildup, which can impede airflow and reduce cooling efficiency. Use compressed air or a soft brush.

- **Inspect Tubing:** Occasionally check the tubing for any signs of kinks, leaks, or damage. While the tubing is durable, physical stress can cause issues over time.

- **Monitor Temperatures:** Use monitoring software to keep an eye on your CPU temperatures. Significant increases in idle or load temperatures may indicate a cooling issue.

- **No Coolant Refill Needed:** This is a closed-loop, all-in-one liquid cooler and does not require coolant refills or maintenance. Do not attempt to open the loop.

7. TROUBLESHOOTING

If you encounter issues with your COUGAR Aqua ARGB 240, refer to the following common problems and solutions:

7.1. High CPU Temperatures

- **Check Pump Connection:** Ensure the pump's power cable is securely connected to the correct motherboard header (CPU_FAN or AIO_PUMP) and receiving power.

- **Verify Fan Operation:** Confirm that both fans are spinning. Check their power connections.

- **Thermal Paste Application:** Ensure adequate thermal paste coverage between the CPU and cold plate. Reapply if necessary.

- **Radiator Airflow:** Check for dust buildup on the radiator fins. Ensure case airflow is sufficient and not restricted.

- **Mounting Pressure:** Confirm the pump/cold plate is securely mounted to the CPU with even pressure.

7.2. ARGB Lighting Not Working

- **Check ARGB Connection:** Ensure the 5V ARGB cable is correctly connected to the motherboard header or controller, paying attention to the arrow/pin alignment.

- **Motherboard Software:** If using motherboard sync, ensure the relevant RGB software is installed and configured correctly.

- **Controller Functionality:** If using the included controller, ensure it is powered and functioning. Try cycling through modes.

- **Power Supply:** Verify that the ARGB components are receiving sufficient power.

7.3. Unusual Noises

- **Fan Noise:** Check if fan blades are hitting cables or obstructions. Ensure fans are securely mounted.

- **Pump Noise:** A slight hum from the pump is normal. Excessive gurgling or grinding might indicate air bubbles. Gently tilt your PC case to help dislodge air bubbles. If noise persists or is loud, contact support.

8. SPECIFICATIONS

Feature	Specification
Model Name	COUGAR Aqua ARGB 240
Radiator Size	240mm
Pump Speed	3200 ± 10% RPM
Cold Plate Material	Copper
Tubing Material	Durable Rubber with Sleeves
Fan Type	ARGB 120mm Fan
Max Fan Rotational Speed	2000 RPM
Acoustic Noise (Max.)	39.55 dBA
Power Connector Type	4-Pin (for fans), 3-Pin/4-Pin (for pump)
Voltage	5 Volts (ARGB), 12 Volts (Fans/Pump)
Wattage	3 watts (pump)
Compatible Devices	Desktop
Product Dimensions (LxWxH)	8.07 x 5.39 x 12.68 inches
Item Weight	4.18 pounds
UPC	192554002385

9. WARRANTY AND SUPPORT

COUGAR products are designed and manufactured to the highest quality standards. For warranty information and technical support, please visit the official COUGAR website or contact their customer service department. Keep your proof of purchase for warranty claims.

Official COUGAR Website: www.cougargaming.com

Related Documents - AQUA ARGB 240
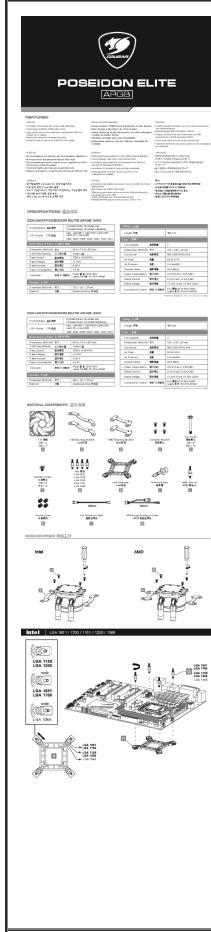
[COUGAR POSEIDON ELITE ARGB CPU Liquid Cooler: Installation Guide & Specifications](#)

Comprehensive installation guide and specifications for the COUGAR POSEIDON ELITE ARGB series CPU liquid coolers. Covers features, detailed specs for 240mm and 360mm models, step-by-step installation for Intel and AMD platforms, connection details, and warranty information.
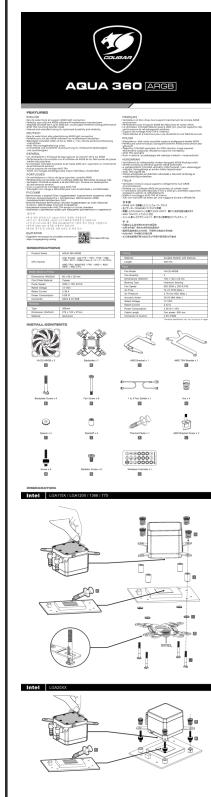
[COUGAR AQUA 360 ARGB CPU Liquid Cooler User Manual and Installation Guide](#)

Comprehensive user manual for the COUGAR AQUA 360 ARGB CPU liquid cooler. Provides detailed information on features, specifications, installation procedures for Intel and AMD sockets, wiring diagrams, remote control functions, warranty policy, and legal notices.
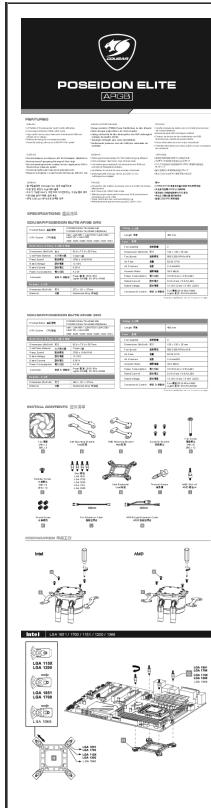
[COUGAR POSEIDON ELITE ARGB CPU Liquid Cooler User Manual](#)

User manual for the COUGAR POSEIDON ELITE ARGB series CPU liquid cooler, detailing features, specifications, installation instructions, and warranty information.
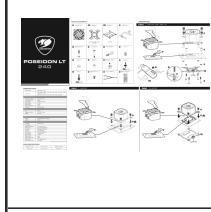
[COUGAR POSEIDON LT 240 CPU Liquid Cooler - User Manual, Specifications, and Installation Guide](#)

Comprehensive guide for the COUGAR POSEIDON LT 240 CPU Liquid Cooler, covering installation steps for Intel and AMD sockets, detailed specifications, package contents, remote controller functions, warranty policy, and manufacturer contact information.
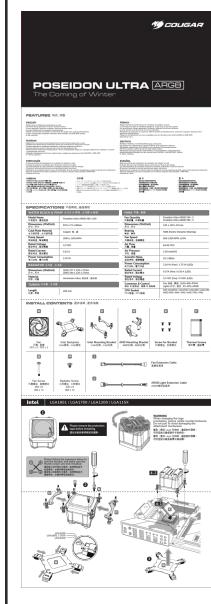
[COUGAR POSEIDON ULTRA ARGB CPU Cooler - Installation Guide and Specifications](#)

Comprehensive guide for the COUGAR POSEIDON ULTRA ARGB all-in-one liquid CPU cooler. Includes features, detailed specifications, installation instructions for Intel LGA1851/AM5 and other sockets, and global warranty information.
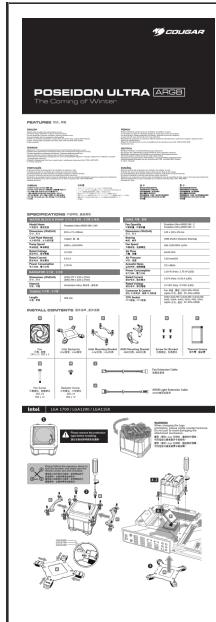
[COUGAR Poseidon Ultra ARGB CPU Cooler: Performance and Installation Guide](#)
Discover the COUGAR Poseidon Ultra ARGB CPU cooler, offering superior cooling performance, quiet operation, and broad compatibility with Intel LGA 1700 and AMD AM5 sockets. Includes detailed specifications and a 5-year warranty.