

## Lian Li GALAHAD AIO Cooler 240mm

# LIAN LI GALAHAD AIO Cooler 240mm Liquid CPU Cooler Instruction Manual

Model: GALAHAD AIO Cooler 240mm

## 1. PRODUCT OVERVIEW

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The LIAN LI GALAHAD AIO Cooler 240mm is an all-in-one liquid CPU cooling system designed for efficient heat dissipation and customizable aesthetics. It features a unique triple-chamber pump design, high static pressure fans, and a high-density aluminum radiator to ensure optimal performance and reliability.

### Key Features:

- **Leakproof Triple-Chamber Pump:** Reduces friction from coolant flow and prevents leaks.
- **Customizable RGB Lighting:** 35 addressable RGB LEDs (for 240mm model) for vibrant lighting effects, compatible with most motherboard software. An LED controller is included.
- **Quiet High Static Pressure Fans:** 120mm ARGB PWM fans operate between 800 to 1900 RPM with a rated airflow of 69.17 CFM for effective and silent cooling.
- **High-Density Aluminum Radiator:** Features 14 rows of aluminum tubes and high-density fins for maximum liquid and heat transfer.
- **Universal Compatibility:** Supports Intel LGA 1700, 1200, 115X, 2066, 2011, and AMD AM5, AM4 CPU motherboard sockets.



Image: The GALAHAD AIO Cooler showcasing its RGB lighting when installed in a computer system.



Image: Detail of the GALAHAD AIO pump head, highlighting its magnetic aluminum cap and integrated RGB lighting.

Video: An overview of the LIAN LI GALAHAD AIO CPU Cooler, highlighting its design and features.

## 2. SETUP AND INSTALLATION

This section provides detailed instructions for installing your LIAN LI GALAHAD AIO Cooler. Ensure your system is powered off and unplugged before beginning installation.

### 2.1. Unpacking and Component Check

Carefully unpack all components and verify against the parts list. The package includes the 240mm radiator with fans, pump/cold plate assembly, mounting brackets for Intel and AMD sockets, screws, washers, and thermal paste.



Image: All included accessories and mounting hardware for the GALAHAD AIO Cooler, including the LGA1700 bracket.

## 2.2. Preparing the CPU

Before mounting the water block, clean the CPU surface. If the CPU is not brand-new, use isopropyl alcohol to remove any old thermal paste residue. Apply a small amount of the included thermal paste to the center of the CPU IHS (Integrated Heat Spreader).

Video: A comprehensive installation tutorial for the GALAHAD AIO Cooler on various Intel and AMD platforms.

## 2.3. Mounting the Water Block

Follow the specific instructions below based on your CPU socket type. Ensure to remove the plastic film from the bottom of the cold plate before installation.

### 2.3.1. Intel LGA 115X, 1366, 775, 1200 Installation

1. Insert the Intel mounting bracket into place on the water block.

2. Lay the motherboard face down. Place the 4 washers in position, then secure the Intel backplate by pushing the 4 no-thread bolts into the holes.
3. Turn the motherboard face up and screw the 4 nuts through the bolts. Place the water block down over the CPU.
4. Screw the 4 thumbscrews through the bolts. Keep them slightly loose until all 4 thumbscrews are in place. Then, secure them tightly with a screwdriver to fix the water block.

### 2.3.2. Intel LGA 2011 and 2066 Installation

1. Insert the Intel mounting bracket into place on the water block.
2. Screw the 4 bolt-shaped thumbscrews onto the motherboard. Then, place the water block over the CPU.
3. Secure the thumbscrews halfway through. Keep them slightly loose before all 4 are in place. Then, secure them tightly with a screwdriver to fix the water block.

### 2.3.3. AMD AM4/AM5 Installation

1. Pull up the white case on the water block slightly to allow the AMD mounting bracket to fit in.
2. Place the 2 AMD mounting hooks on the motherboard, then hitch the water block over the CPU.
3. Secure the thumbscrews halfway through. After the water block is correctly positioned, secure the thumbscrews with a screwdriver to fix the water block in place.

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Video: Instructions on how to install AMD mounting brackets for the GALAHAD AIO Cooler.

## 2.4. Radiator and Fan Mounting

Mount the radiator and fans in your PC case. The 240mm radiator typically mounts to the top or front of the case. Ensure proper airflow direction for optimal cooling.

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Video: A tutorial demonstrating how to mount the GALAHAD AIO Cooler at the front panel of a LANCOOL 215 case.

## 2.5. Cable Connections

Connect the pump and fan cables to the appropriate headers on your motherboard or the included RGB controller. Refer to your motherboard manual for specific header locations. Ensure all connections are secure.

# 3. OPERATING INSTRUCTIONS

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## 3.1. RGB Lighting Control

The GALAHAD AIO Cooler features addressable RGB LEDs. You can control the lighting effects in two ways:

- **Motherboard Software:** Connect the RGB cables to your motherboard's ARGB header (5V 3-pin) and use the motherboard's RGB synchronization software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync) to customize lighting effects.
- **Included LED Controller:** If your motherboard does not support ARGB synchronization, use the included LED controller to cycle through various preset lighting modes and colors.



Image: The GALAHAD AIO Cooler showcasing its customizable addressable RGB lighting.

### 3.2. Fan Speed Control

The 120mm PWM fans can be controlled via your motherboard's fan control software or BIOS settings. Adjust fan curves to balance cooling performance and noise levels according to your preference. The fans operate silently with an industrial-grade motor and Fluid Dynamic Bearing (FDB) technology.

## 4. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your GALAHAD AIO Cooler.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure fans are not spinning during cleaning.
- **Tubing Inspection:** Inspect the tubing for any signs of wear, kinks, or leaks. The high-end braided tubing is designed for durability and leak prevention.
- **Pump Head:** Ensure the pump head is free from dust and debris. The removable magnetic aluminum cap can be taken off for cleaning if necessary.

## 5. TROUBLESHOOTING

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If you encounter issues with your GALAHAD AIO Cooler, refer to the following common troubleshooting steps:

- **High CPU Temperatures:**
  - Verify that the water block is securely mounted to the CPU and that thermal paste was applied correctly.
  - Check if the pump is running (you might feel a slight vibration or hear a faint hum). Ensure its power cable is properly connected.
  - Confirm that radiator fans are spinning and that airflow is not obstructed.
  - Ensure your case has adequate airflow.
- **RGB Lighting Not Working:**

- Check all RGB cable connections to the motherboard or LED controller.
- If using motherboard software, ensure it is up-to-date and correctly configured.
- If using the included controller, ensure it is powered and functioning.

- **Unusual Noises:**

- A slight hum from the pump is normal. Excessive noise might indicate air bubbles in the loop. Try gently tilting your PC case to help dislodge air bubbles.
- Ensure fan screws are tightened and no cables are interfering with fan blades.

- **Leakage:**

- While the triple-chamber pump design is leakproof, immediately power off your system if any leakage is observed and contact customer support.

## 6. SPECIFICATIONS

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Feature	Specification
Product Dimensions	10.75"L x 4.86"W x 1.06"H
Brand	Lian Li
Power Connector Type	4-Pin
Voltage	12 Volts
Wattage	87.1 watts
Cooling Method	Water
Compatible Devices	Desktop
Noise Level	32 Decibels
Material	Aluminum, Plastic
Maximum Rotational Speed	1900 RPM
Item Weight	1 Kilograms
Unit Count	1.0 Count



Image: Dimensional drawing of the GALAHAD AIO Cooler radiator.

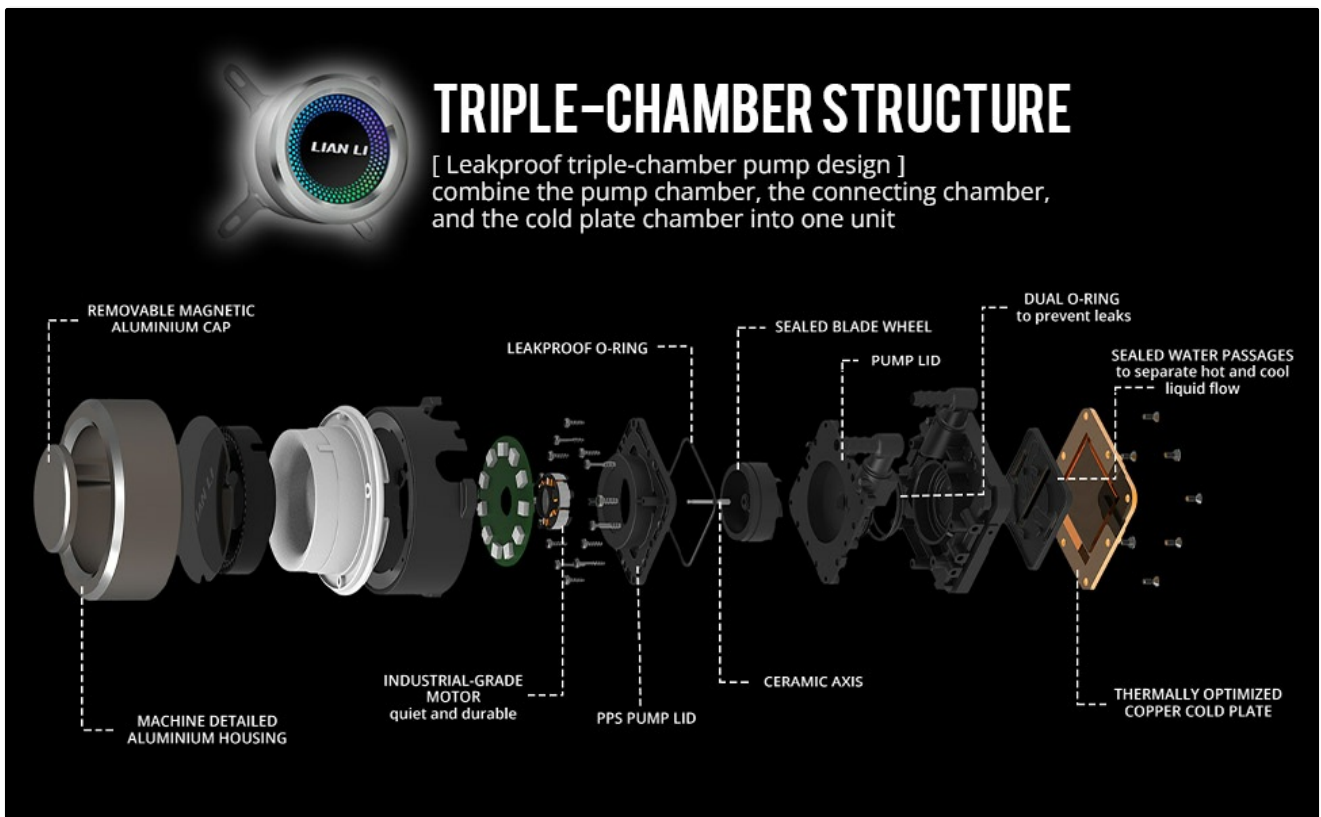


Image: Detailed diagram illustrating the leakproof triple-chamber pump design.

## HIGH-DENSITY ALUMINIUM RADIATOR

- Durable aluminium shields on both sides
- 14 rows of aluminium tubes allowing maximum liquid pass-through
- High-density fin increasing the heat dissipation area significantly

Aluminium Shields

Fin Height: 20mm

Aluminium Shields

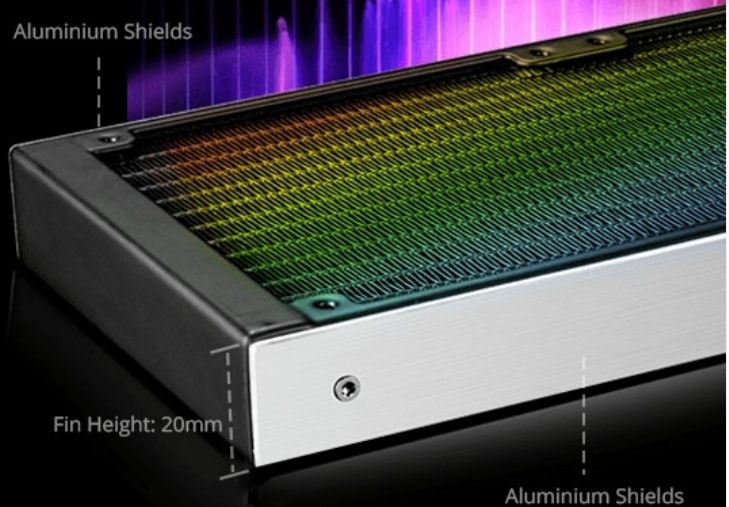


Image: Close-up view of the high-density aluminum radiator, emphasizing its fin structure.

## SILENT EXTREME COOLING

The GALAHAD AIO is equipped with a set of high static pressure fans propelled by industrial-grade motor



### HIGH STATIC PRESSURE FANS

Maximum static pressure: 2.6mm H<sub>2</sub>O  
Maximum Airflow: 69.17 CFM

### INDUSTRIAL-GRADE MOTOR

Fluid Dynamic Bearing (Fdb) Technology  
Extra Magnetic Support  
Fan Speed: 800~1900 RPM

Image: Illustration of the high static pressure fan and its industrial-grade motor.

## 7. WARRANTY AND SUPPORT

The LIAN LI GALAHAD AIO Cooler comes with a **5-year warranty**, ensuring a worry-free liquid-cooling experience. For technical support, warranty claims, or further assistance, please visit the official Lian Li website or contact their customer service department.

