MSI MAG CORELIQUID P240

MSI MAG CoreLiquid P240 AIO CPU Liquid Cooler - User Manual

MODEL: MAG CORELIQUID P240

Product Overview

The MSI MAG CoreLiquid P240 is an All-In-One (AIO) CPU liquid cooler designed for efficient thermal management of your desktop processor. Featuring a 240mm radiator and dual 120mm PWM fans, it provides robust cooling performance for a wide range of Intel and AMD CPU sockets. Its unique split-flow radiator design with an integrated three-phase pump ensures durability and reduced motor resonance. The evaporation-proof tubing guarantees a long-lasting, closed-loop system.

Image: MSI MAG CoreLiquid P240 AIO CPU Liquid Cooler showcasing LGA 1700 and AM5 compatibility.

Safety Precautions

- Always disconnect power from your PC before installation or maintenance.
- Handle components with care to avoid damage.
- Wear anti-static gloves to prevent electrostatic discharge (ESD) damage.
- Ensure proper ventilation in your PC case.
- Do not open the liquid cooler's sealed loop; it contains coolant that should not be ingested or come into contact with skin.
- Keep out of reach of children.

Package Contents

Image: All components included in the MSI MAG CoreLiquid P240 package.

- MAG CoreLiquid P240 Radiator with Integrated Pump
- 2x 120mm PWM Fans
- Mounting Brackets for Intel (LGA 1150/1151/1155/1156/1200/1700/1851/1366/2011/2011-3/2066)
- Mounting Brackets for AMD (AM5/AM4/FM2+/FM2/FM1/AM3+/AM3/AM2+/AM2)
- Thermal Paste
- Accessory Screws and Cables

Installation Guide

Pre-Installation Steps

1. Ensure your PC is powered off and unplugged.
2. Open your PC case and locate the CPU socket on your motherboard.
3. Remove any existing CPU cooler. Clean the CPU surface thoroughly with isopropyl alcohol.

Mounting the Water Block (Intel LGA 1700/1851)

The MAG CoreLiquid P240 supports Intel LGA 1700/1851 sockets out of the box. Follow these steps for installation:

1. Install the appropriate Intel backplate from the back side of the motherboard.
2. Secure the backplate with the correct standoffs on the front side of the motherboard.
3. Apply a small amount of thermal paste to the center of the CPU's Integrated Heat Spreader (IHS).
4. Remove the protective film from the water block's copper base.
5. Carefully place the water block onto the CPU, aligning the mounting holes.
6. Tighten the four screws in a diagonal pattern until secure. Do not overtighten.

Image: Intel LGA 1700/1851 mounting hardware for the water block.

Mounting the Water Block (AMD AM5/AM4)

For AMD AM5/AM4 sockets, use the provided AMD mounting hardware. The stock AMD backplate should remain on the motherboard.

1. Remove the plastic retention brackets from the stock AMD CPU socket.
2. Install the AMD standoffs onto the stock backplate.
3. Apply thermal paste to the CPU IHS.
4. Remove the protective film from the water block's copper base.
5. Place the water block onto the CPU, aligning with the standoffs.
6. Secure the water block with the AMD thumb screws in a diagonal pattern until snug.

Radiator and Fan Installation

1. Determine the optimal mounting location for the 240mm radiator within your PC case (e.g., top, front, or side).
2. Mount the two 120mm PWM fans to the radiator using the included screws. Ensure the fan airflow direction is appropriate for your case's cooling strategy.
3. Secure the radiator assembly to your PC case using the longer screws provided.
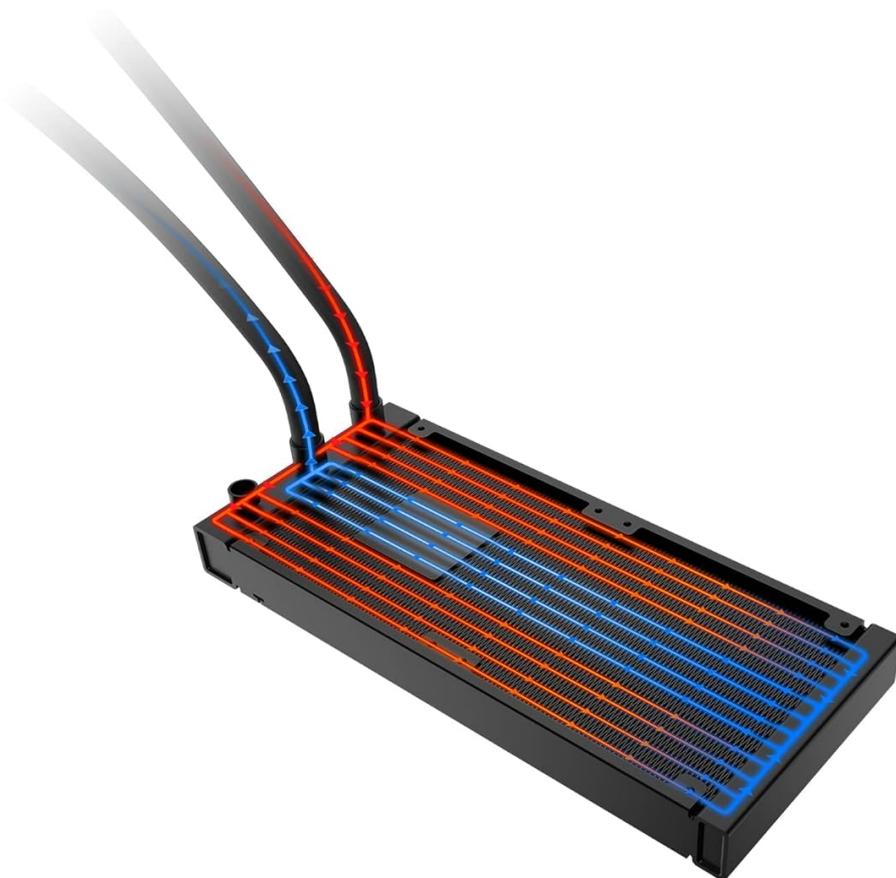
HIGH THERMAL DISSIPATION

Image: Illustration of high thermal dissipation through the radiator's split-flow design.

Cable Connection

1. Connect the pump's 4-pin connector to the 'CPU_FAN', 'CPU_OPT', 'AIO_PUMP', or 'W_PUMP' header on your motherboard. Consult your motherboard manual for the correct header.

2. Connect the 4-pin PWM fan cables to available 'CPU_FAN' or 'CPU_OPT' headers, or use a fan splitter if necessary.
3. If your model includes RGB lighting, connect the 3-pin 5V ARGB connector to the '5V D G' header on your motherboard for synchronization via MSI Center software.

Installation Videos

Video: Official MSI MAG CoreLiquid I series installation guide. This video demonstrates the general installation process for MSI AIO coolers, including mounting the water block and radiator.

Video: Official MSI Intel LGA1851 socket installation guide. This video provides specific instructions for installing MSI coolers on Intel LGA1851 sockets, which is relevant for LGA1700/1851 compatibility.

Operating Instructions

Once installed, power on your PC. The MAG CoreLiquid P240 will automatically begin cooling your CPU. Monitor CPU temperatures using system monitoring software (e.g., MSI Center, HWMonitor) to ensure optimal performance. The dual PWM fans will adjust their speed based on CPU temperature, providing efficient cooling while minimizing noise.

For models with RGB lighting, use the MSI Center software to customize lighting effects and synchronize them with other compatible components.

Maintenance

- **Dust Cleaning:** Periodically clean the radiator fins and fan blades with compressed air to remove dust buildup. Dust can impede airflow and reduce cooling efficiency.
- **Tubing Inspection:** Regularly check the tubing for any signs of leaks, kinks, or damage. Ensure all connections are secure.
- **Coolant:** The liquid cooler is a sealed unit and does not require coolant refills. Do not attempt to open the unit.
- **Fan Noise:** If fans become excessively noisy, check for dust accumulation or ensure they are securely mounted.

Troubleshooting

- **High CPU Temperatures:**
  - Ensure the water block is properly seated and tightened on the CPU.
  - Verify that thermal paste was applied correctly.

- Check if fans are spinning and the pump is operating (you might feel a slight vibration).
- Clean any dust from the radiator fins.

- **No Fan/Pump Operation:**

  - Confirm all power cables (4-pin PWM for fans/pump) are securely connected to the correct motherboard headers.
  - Check BIOS settings to ensure fan/pump headers are enabled and configured correctly.

- **Unusual Noises:**

  - A slight hum from the pump is normal. Excessive noise might indicate air bubbles in the loop (tilt your PC gently to help dislodge them) or a faulty pump/fan.
  - Ensure fans are not hitting any cables or case components.

Technical Specifications

Feature	Specification
Product Dimensions	10.71"L x 1.06"W x 4.72"H
Cooling Method	Water
Radiator Size	240mm
Fan Size	2x 120mm PWM
Maximum Rotational Speed	2000 RPM
Air Flow Capacity	78.73 Cubic Feet Per Minute
Noise Level	18 Decibels
Power Connector Type	4-Pin
Voltage	12 Volts
Wattage	260 watts
Compatible Sockets	Intel (LGA 1150/1151/1155/1156/1200/1700/1851/1366/2011/2011-3/2066), AMD (AM5/AM4/FM2+/FM2/FM1/AM3+/AM3/AM2+/AM2)
Material	Ceramic (Pump)

Warranty and Support

MSI provides a limited warranty for the MAG CoreLiquid P240. Please refer to the official MSI website or your product's warranty card for detailed terms and conditions. For technical support, driver downloads, or further assistance, visit the MSI support page or contact their customer service directly.

Online Support: www.msi.com/support