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› Cooler Master MasterLiquid Atmos 240 White CPU Liquid Cooler User Manual

Cooler Master MLX-D24M-A25PZ-RW

Cooler Master MasterLiquid Atmos 240 White CPU Liquid Cooler User Manual

Model: MLX-D24M-A25PZ-RW | Brand: Cooler Master

INTRODUCTION

The Cooler Master MasterLiquid Atmos 240 White is an all-in-one liquid cooling system designed to provide efficient thermal management for your CPU. This manual provides essential information for the proper setup, operation, and maintenance of your MasterLiquid Atmos 240 White cooler, ensuring optimal performance and longevity.



Image: The Cooler Master MasterLiquid Atmos 240 White CPU Liquid Cooler, showcasing its white radiator, dual SickleFlow Edge fans with vibrant RGB lighting, and the hexagonal pump block.

KEY FEATURES

- **Dual Chamber Pump:** An in-house designed pump refined for enhanced cooling synergy, featuring increased water pressure and optimized flow to the CPU hot spot. The pump block top cover is transparent, removable, and customizable with 3D-printed parts.

- **SickleFlow Edge Fans:** Pre-installed 120 mm SF Edge fans utilize Loop Dynamic Bearing (LDB) for ultra-quiet performance (27.2 dBA) and improved durability (>160,000 MTTF). Installed with low-profile screws for improved small case compatibility.
- **Optimal Cooling Performance:** The aluminum radiator (277 x 119.6 x 27.2 mm) and PWM fans deliver optimal cooling (70.7 CFM, 2500 RPM) and air pressure (3.61 mmH₂O). Tube clips are included for efficient cable management.
- **ARGB Gen 2 RGB:** Both the pump and fan ARGB LEDs allow for custom lighting. These can be synchronized with RGB-certified motherboards or controlled manually via the included controller, MasterCTRL, or MasterPlus software.
- **Broad Compatibility:** Designed for easy and seamless installation with simplified CPU bracket designs and separate packaging. Compatible with Intel LGA (1700/1200/1151/1150/1155/1156) and AMD (AM5/AM4) sockets.

SETUP

Package Contents

Before beginning installation, ensure all components are present:

- MasterLiquid Atmos 240 White AIO Unit (Radiator, Pump, Tubing, Pre-installed Fans)
- Intel Mounting Brackets (LGA1700/1200/1151/1150/1155/1156)
- AMD Mounting Brackets (AM5/AM4)
- Mounting Hardware (Screws, Backplates, Spacers)
- ARGB Controller (if not using motherboard sync)
- Tube Clips for Cable Management
- User Manual (this document)



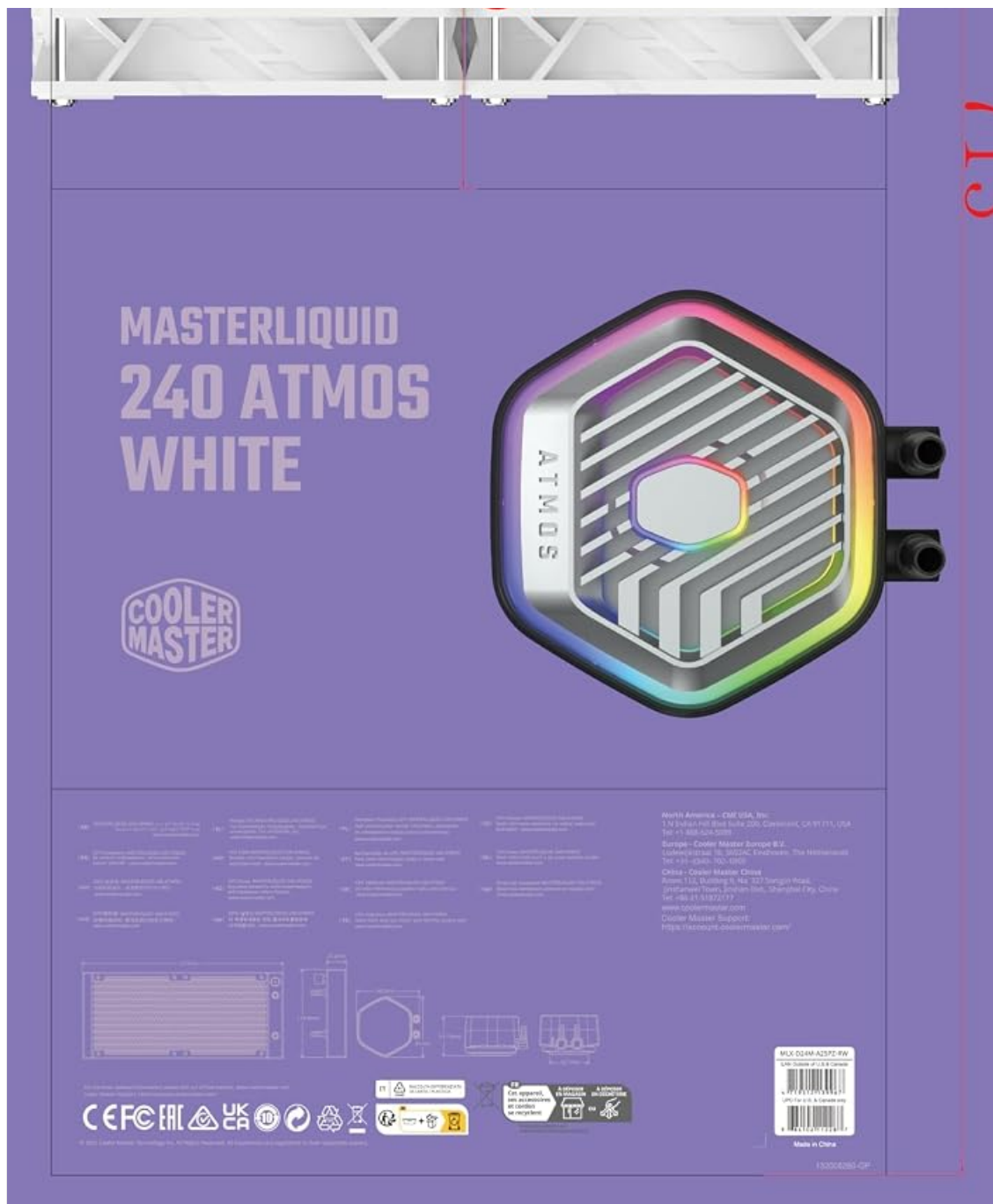


Image: Various components of the Cooler Master MasterLiquid Atmos 240 White, including the radiator, fans, pump, and mounting hardware, laid out for inspection.

Installation Overview

The MasterLiquid Atmos 240 White is designed for straightforward installation. The CPU brackets are individually packaged and simplified for ease of assembly. The SickleFlow Edge fans come pre-installed on the radiator, further streamlining the process. Thermal paste is pre-applied to the cold plate for convenience.

1. Prepare your motherboard by installing the appropriate backplate for your CPU socket (Intel or AMD).
2. Secure the standoffs onto the backplate.
3. Carefully place the pump block onto the CPU, aligning it with the standoffs.
4. Secure the pump block with the provided thumb screws or nuts.
5. Mount the radiator and pre-installed fans to your PC case in a suitable location (e.g., top, front, or rear, depending on case compatibility).
6. Connect the pump power cable to the CPU_FAN or AIO_PUMP header on your motherboard.
7. Connect the fan power cables to available fan headers on your motherboard or a fan controller.

8. Connect the ARGB cables from the pump and fans to your motherboard's ARGB header or the included ARGB controller.
9. Utilize the included tube clips for neat cable management.



Image: A close-up view of the Cooler Master MasterLiquid Atmos 240 White's hexagonal pump block, highlighting its transparent top cover and integrated RGB lighting.

OPERATING

Cooling Performance

Once installed, the MasterLiquid Atmos 240 White will actively cool your CPU. The dual chamber pump and SickLeFlow Edge fans work in conjunction to maintain optimal temperatures. The fans operate at a maximum rotational speed of 2500 RPM, delivering an air flow capacity of 70.7 Cubic Feet Per Minute (CFM) and an air pressure of 3.61 mmH₂O, with a low noise level of 27.2 dBA.



Image: The white radiator and dual SickLeFlow Edge fans of the Cooler Master MasterLiquid Atmos 240 White, illustrating the cooling components.

ARGB Lighting Control

The Addressable Gen 2 RGB lighting on both the pump and fans can be customized to match your system's aesthetic. You can control the lighting in several ways:

- **Motherboard Synchronization:** If your motherboard supports ARGB, connect the cooler's ARGB cables to the motherboard's ARGB header. Use your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync) to control the lighting effects.
- **Included ARGB Controller:** Use the provided manual ARGB controller to cycle through pre-set lighting modes and colors if your motherboard does not have an ARGB header or if you prefer standalone control.
- **MasterPlus or MasterCTRL Software:** For advanced customization and device performance management, download and install Cooler Master's MasterPlus or the new MasterCTRL software. These applications provide an intuitive user interface to fine-tune your RGB effects and monitor cooler performance.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance 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. Ensure the connections to the pump and radiator are secure.
- **Fan Operation:** Listen for any unusual noises from the fans or pump. Ensure fans are spinning freely and quietly.
- **Software Updates:** Keep your MasterPlus or MasterCTRL software updated to benefit from the latest features and performance optimizations.

TROUBLESHOOTING

If you encounter issues with your MasterLiquid Atmos 240 White, consider the following common troubleshooting steps:

- **High CPU Temperatures:**
 - Ensure the pump is properly connected and running (check BIOS/software for pump RPM).
 - Verify fans are spinning and oriented correctly for airflow (intake/exhaust).
 - Check for dust buildup on the radiator fins.
 - Confirm the pump block is securely mounted to the CPU and making good contact.
- **Unusual Noises:**
 - A gurgling sound immediately after installation may indicate air bubbles; this should subside after a few hours of operation. If it persists, gently tilt your PC case to help move air bubbles.
 - Rattling or grinding noises from fans may indicate a foreign object or a faulty fan. Inspect and clean the fans.
- **RGB Lighting Not Working:**
 - Ensure ARGB cables are securely connected to the motherboard header or controller.
 - Verify that the ARGB header on your motherboard is enabled in the BIOS.
 - Check your motherboard's RGB software or Cooler Master's MasterPlus/MasterCTRL software for lighting settings.
- **Fans Not Spinning:**
 - Ensure fan power cables are correctly connected to the motherboard or fan controller.
 - Check fan speed settings in BIOS or fan control software.

SPECIFICATIONS

Attribute	Detail
Model Number	MLX-D24M-A25PZ-RW
Product Dimensions (LxWxH)	10.91" x 4.71" x 1.07" (277 x 119.6 x 27.2 mm)
Material	Aluminum (Radiator)
Cooling Method	Water
Compatible Devices	Desktop CPUs (Intel LGA 1700/1200/1151/1150/1155/1156, AMD AM5/AM4)
Fan Size	120 mm
Maximum Rotational Speed	2500 RPM
Air Flow Capacity	70.7 Cubic Feet Per Minute (CFM)
Noise Level	27.2 dB
Power Connector Type	4-Pin
Voltage	110 Volts
Wattage	24 watts

Attribute	Detail
Item Weight	2.49 pounds
Color	White

WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please visit the official Cooler Master website or contact their customer service department. Keep your proof of purchase for warranty claims.

Cooler Master Official Website: www.coolermaster.com

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question