Cooler Master MLX-D36M-A25SZ-P1

Cooler Master Atmos II 360 Pixel LED CPU Liquid Cooler User Manual

Model: MLX-D36M-A25SZ-P1

INTRODUCTION

The Cooler Master MasterLiquid Atmos II Pixel LED brings FreeForm 2.0 flexibility to high-performance liquid cooling. This unit is designed for users who require top-tier thermal performance and customizable visual elements. It features a modular Pixel LED panel and supports open-source printable modifications. With swappable faceplates, this cooler allows for personalization without compromising cooling efficiency.

PACKAGE CONTENTS

- Atmos II 360 Pixel Liquid Cooler Unit
- SickleFlow 360 Fans (Pre-installed)
- Dual Pump Cover
- User Manual
- Installation Kit (for AMD and Intel sockets)

Image: All components included in the Cooler Master Atmos II 360 Pixel LED Liquid Cooler package.

Product Features

- **Pixel LED for Custom Display:** A programmable LED panel allows for displaying patterns, system statistics, and lighting effects. Customization is managed via MasterCTRL software, with ARGB lighting controlled by the motherboard.

Image: The Pixel LED pump head showcasing a customizable display.

- **Optimized for High-Performance CPUs:** The patented Dual-Chamber pump design enhances water pressure and flow to critical CPU hotspots, providing quiet and maintenance-free cooling for processors such as AMD Ryzen 9 and Intel Ultra i9.

- **Durable Construction:** Constructed with PPS and fiberglass, the Atmos II pump is engineered to withstand extreme temperatures up to 70°C for 3,000 hours and 120°C for 12 hours, ensuring long-term performance.

- **Quick and Easy Installation:** Features pre-installed customizable ARGB fans and a streamlined mounting system for simplified setup across AM5|4 and LGA 1851|1700 platforms.

Image: Mounting hardware for Intel and AMD platforms, highlighting ease of installation.

- **Offset Brackets for LGA 1851:** Included offset brackets are provided for LGA 1851 platforms to optimize contact with varying CPU hotspot locations, potentially lowering core temperatures by up to 4°C.
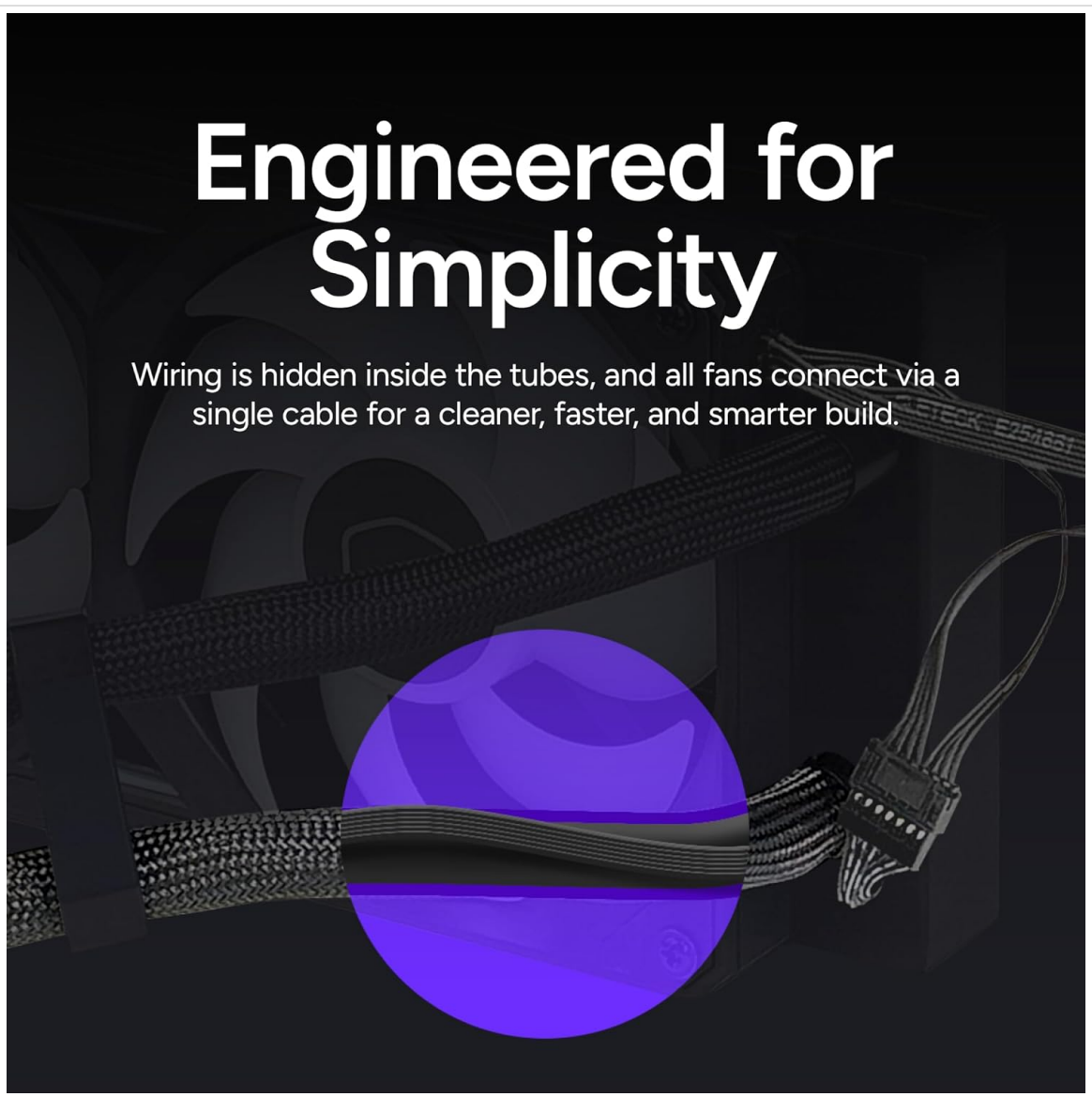
Image: Thermal comparison between standard and offset mounting brackets for Intel LGA 1700 and 1851 CPUs.

- **Streamlined Cable Management:** Cables are routed internally through the tubes, and all fans connect with a single cable, contributing to a cleaner and more organized build.

Image: Detail of the internal cable routing for a clean setup.

- **Dual Cover Styles:** Two decorative top covers are included and attach magnetically, allowing for quick style changes.
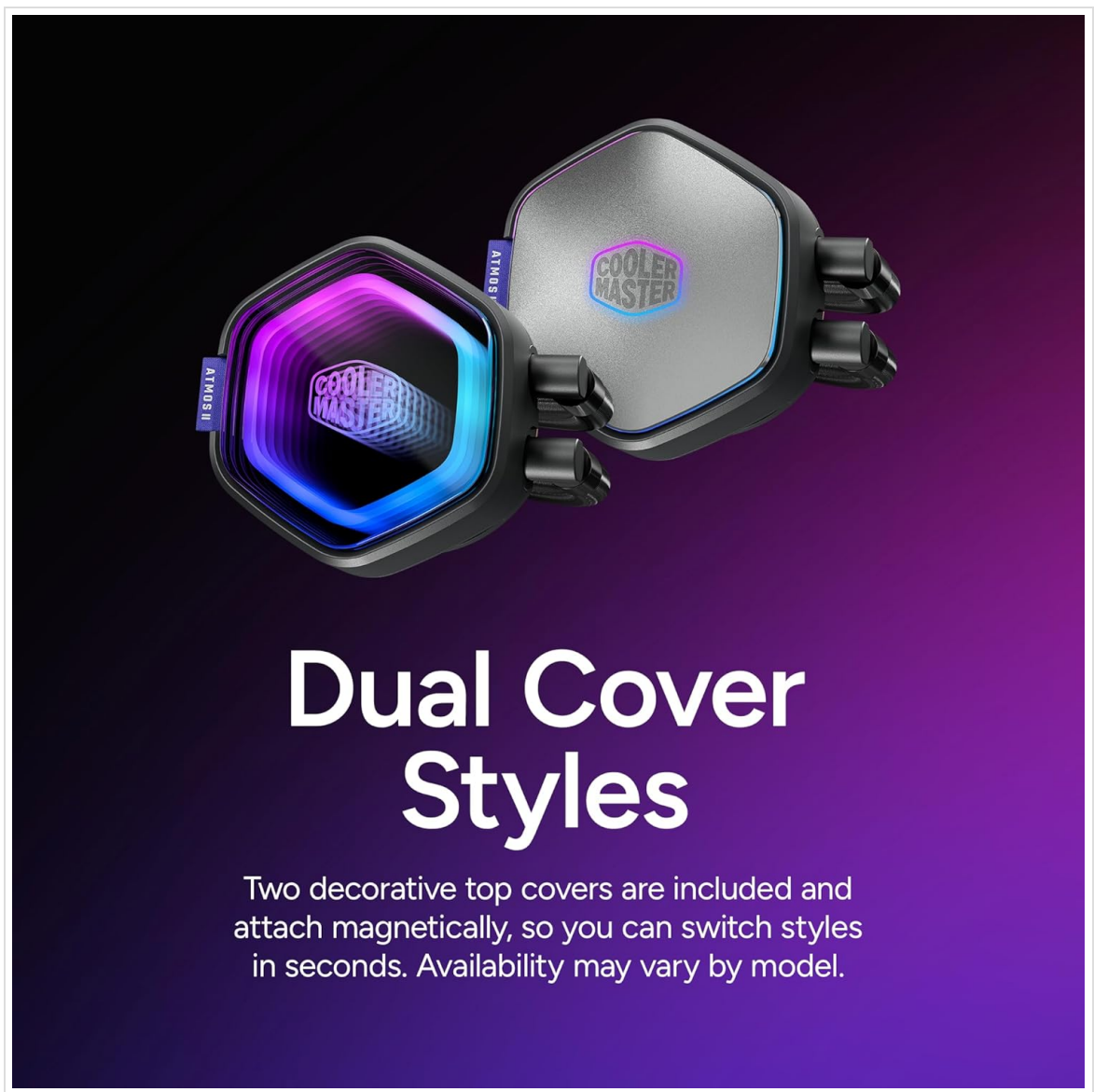
Image: The two interchangeable magnetic pump covers.

SETUP AND INSTALLATION

Follow these steps for proper installation of your Cooler Master Atmos II 360 Pixel LED CPU Liquid Cooler.

1. Prepare Motherboard and CPU

Ensure your motherboard is compatible with the cooler's mounting system (AM5|4 or LGA 1851|1700). Install your CPU into the motherboard socket according to your motherboard's instructions.

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Video: A general PC build guide demonstrating CPU and RAM installation on a motherboard. This video is provided by Cooler Master and is relevant for initial motherboard preparation.

2. Install Radiator and Fans

The SickleFlow 360 fans come pre-installed on the radiator. Mount the radiator to an available 360mm mounting location in your PC case (typically top or front). Ensure proper airflow direction for optimal cooling.

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Video: An unboxing and installation overview of a Cooler Master MasterLiquid 240 Core II, demonstrating radiator and fan mounting principles applicable to the Atmos II 360.

3. Apply Thermal Paste

Apply a small amount of thermal paste (included in the installation kit) to the center of your CPU's integrated heat spreader (IHS). A pea-sized dot or a thin line is generally sufficient. Do not spread the paste manually; the pressure from the cold plate will distribute it evenly.

4. Mount Pump/Cold Plate

Carefully remove the protective film from the cold plate. Align the cold plate with the CPU and the mounting brackets. Secure the cold plate using the appropriate screws from the installation kit. Tighten screws in a diagonal pattern until snug, ensuring even pressure.

5. Cable Management and Connections

Connect the pump and fan cables to the appropriate headers on your motherboard. Utilize the internal cable routing within the cooler's tubes for a clean aesthetic. Connect the Pixel LED panel's USB cable to an available USB header on your motherboard for software control.

OPERATING INSTRUCTIONS

Pixel LED Customization

Download and install the Cooler Master MasterCTRL software from the official Cooler Master website. This software allows you to customize the display on the Pixel LED panel, including patterns, system statistics, and various lighting effects. Ensure the cooler's USB cable is connected to your motherboard for software communication.
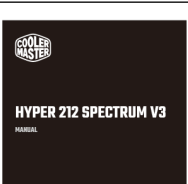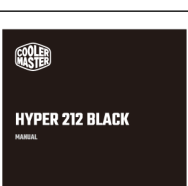
ARGB Lighting Control

The aRGB lighting of the fans and pump can be controlled via your motherboard's aRGB software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion, ASRock Polychrome Sync). Connect the cooler's aRGB cable to a compatible 3-pin 5V aRGB header on your motherboard.

SPECIFICATIONS

Product Dimensions	14.2 x 4.8 x 1 inches (36.07 x 12.19 x 2.54 cm)
Item Model Number	MLX-D36M-A25SZ-P1
Brand	Cooler Master
Power Connector Type	4-Pin
Cooling Method	Fan, Water
Compatible Devices	CPU, Desktop (AMD Ryzen 9 AM5|4, Intel Ultra i9 LGA 1851|1700)
Noise Level	38.5 Decibels
Material	Aluminum, Copper, Plastic
Maximum Rotational Speed	2500 RPM
Air Flow Capacity	190 Cubic Feet Per Minute
UPC	884102131912

Related Documents - MLX-D36M-A25SZ-P1

MASTERLIQUID 240 ATMOS 360 ATMOS USER MANUAL	[Cooler Master MasterLiquid 240/360 Atmos User Manual and Installation Guide](#) This document provides a comprehensive user manual and installation guide for the Cooler Master MasterLiquid 240 Atmos and 360 Atmos all-in-one liquid CPU coolers. It details the included parts and provides step-by-step instructions for installation on Intel (LGA 1700, 1200, 115X) and AMD (AM4, AM5) platforms, including fan and ARGB connections.
MASTERLIQUID 240 ATMOS 360 ATMOS 240 ATMOS WHITE 360 ATMOS WHITE USER MANUAL	[Cooler Master MasterLiquid 240/360 Atmos User Manual](#) Comprehensive user manual for the Cooler Master MasterLiquid 240 Atmos and 360 Atmos liquid CPU coolers, detailing installation for Intel and AMD platforms, fan and controller connections, and troubleshooting initial noise.
HYPER 212 RGB BLACK EDITION with RGB Fan USER MANUAL	[Cooler Master Hyper 212 RGB Black Edition CPU Cooler Installation Guide](#) Installation guide for the Cooler Master Hyper 212 RGB Black Edition CPU cooler, detailing package contents, compatibility with Intel and AMD sockets, and assembly steps.
HYPER 212 SPECTRUM V3 MANUAL	[Cooler Master Hyper 212 Spectrum V3 CPU Cooler Installation Manual](#) This manual provides step-by-step instructions for installing the Cooler Master Hyper 212 Spectrum V3 CPU cooler on Intel LGA 1700/1200/115X and AMD AM5/AM4 sockets. It details package contents, mounting hardware, and connection for RGB synchronization.
HYPER 212 BLACK MANUAL	[Cooler Master Hyper 212 Black CPU Cooler Installation Manual](#) This manual provides detailed instructions for installing the Cooler Master Hyper 212 Black CPU cooler. It includes a list of package contents, compatibility information for Intel and AMD platforms, and step-by-step assembly guides for both systems.
MASTERAIR MA612 STEALTH MANUAL	[Cooler Master MasterAir MA612 Stealth CPU Air Cooler Installation Manual](#) This manual details the installation process for the Cooler Master MasterAir MA612 Stealth CPU air cooler. It covers component identification, compatibility with Intel (LGA 1700/1200/115x/2066/2011) and AMD (AM5/AM4/AM3/AM2/FM2/FM1) sockets, and provides step-by-step visual guides for a successful installation.