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Cooler Master MLW-D24M-A18PA-R2

Cooler Master MasterLiquid ML240L V2 ARGB CPU Cooler Instruction Manual

Model: MLW-D24M-A18PA-R2

Product Overview

The Cooler Master MasterLiquid ML240L V2 ARGB is an all-in-one (AIO) liquid CPU cooler designed to deliver enhanced cooling performance and vibrant Addressable RGB lighting. It features a newly designed 3rd generation dual-chamber pump for improved overall cooling efficiency and performance. The radiator's increased surface area further enhances heat dissipation. Equipped with two SickleFlow 120 ARGB fans, this cooler provides quiet airflow performance without compromising air pressure. The Addressable RGB lighting can be synchronized with major motherboard manufacturers for customizable color and pattern control, with a dedicated controller included for convenience. Enhanced sealing technology helps prevent leaks, ensuring long-term reliability.



Image: The Cooler Master MasterLiquid ML240L V2 ARGB CPU Cooler, showcasing its dual fans, radiator, and illuminated pump head.

Package Contents

Please ensure all components are present before proceeding with installation.



Image: An overhead view of all components included in the Cooler Master MasterLiquid ML240L V2 ARGB package, laid out on a white surface.

- MasterLiquid ML240L V2 ARGB Liquid Cooler Unit
- 2x SickleFlow 120 ARGB Fans
- Mounting Hardware for Intel Sockets: LGA 2066 / 2011-v3 / 2011 / 1151 / 1150 / 1155 / 1156 / 1200
- Mounting Hardware for AMD Sockets: AM4 / AM3+ / AM3 / AM2+ / AM2 / FM2+ / FM2 / FM1
- ARGB Controller
- Thermal Paste
- Fan Splitter Cable
- User Manual

Setup and Installation

Follow these steps carefully to install your Cooler Master MasterLiquid ML240L V2 ARGB CPU Cooler.

1. Prepare the CPU Socket

Identify your CPU socket type (Intel or AMD) and prepare the corresponding mounting hardware.

For Intel Sockets (LGA 2066 / 2011-v3 / 2011 / 1151 / 1150 / 1155 / 1156 / 1200):

1. Attach the Intel backplate to the rear of your motherboard, aligning the screws through the mounting holes.
2. Secure the blue standoffs onto the backplate screws from the front side of the motherboard.
3. Place the Intel mounting brackets onto the standoffs.

For AMD Sockets (AM4 / AM3+ / AM3 / AM2+ / AM2 / FM2+ / FM2 / FM1):

1. Remove the existing plastic retention brackets from your motherboard, but retain the original backplate.
2. Secure the red standoffs onto the original backplate screws from the front side of the motherboard.
3. Place the AMD mounting brackets onto the standoffs.

2. Apply Thermal Paste

Apply a small amount of the provided thermal paste to the center of your CPU's Integrated Heat Spreader (IHS). A pea-sized dot is usually sufficient.

3. Install the Water Block

1. Remove the protective sticker from the copper cold plate of the water block.
2. Carefully align the water block with the mounting screws/brackets on the motherboard.
3. Gently place the water block onto the CPU, ensuring even contact.
4. Secure the water block by tightening the four nuts onto the mounting screws/brackets in a diagonal pattern until snug. Do not overtighten.

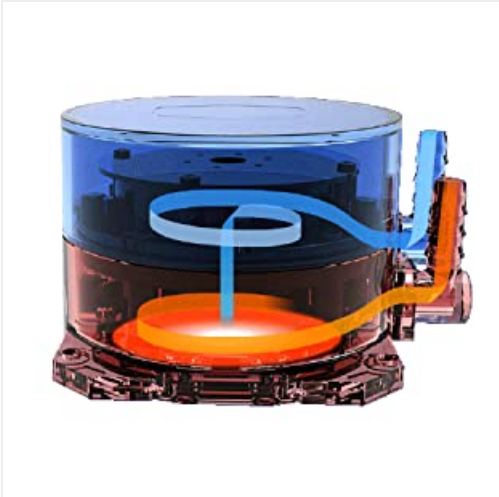


Image: An exploded view of the 3rd Generation Dual Chamber Pump, highlighting its internal components and design improvements.

4. Mount the Radiator and Fans

1. Attach the two SickleFlow 120 ARGB fans to the radiator using the longer screws. Ensure the fan airflow direction is appropriate for your case (typically exhausting air out of the case).
2. Mount the radiator assembly to an available 240mm fan mount location in your PC case (e.g., top or front panel) using the shorter radiator screws.

Image: A close-up view of the radiator fins, illustrating the increased surface area for improved heat dissipation.



Image: A detailed view of the SickleFlow 120 ARGB fan, highlighting its refreshed exterior design and fan blades for quiet airflow.

5. Connect Cables

1. Connect the 4-pin PWM cable from the pump to the CPU_OPT or AIO_PUMP header on your motherboard.
2. Connect the 4-pin PWM cables from both fans to the included fan splitter cable, then connect the splitter cable to the CPU_FAN header on your motherboard.
3. Connect the 3-pin ARGB cables from the pump and both fans to the included ARGB controller.
4. Connect the ARGB controller to an available 3-pin +5V ARGB header on your motherboard for software control, or use the controller's buttons for manual control.



Image: A small, compact ARGB controller with multiple ports for connecting ARGB devices.



Image: The Cooler Master MasterLiquid ML240L V2 ARGB pump head and fans illuminated with vibrant, customizable ARGB lighting.

Operating Instructions

Once installed, the Cooler Master MasterLiquid ML240L V2 ARGB will automatically begin cooling your CPU upon system startup. The pump and fans will adjust their speed based on CPU temperature, controlled by your motherboard's PWM settings.

ARGB Lighting Control:

The Addressable RGB lighting can be controlled in two ways:

- **Motherboard Software Sync:** If connected to a compatible 3-pin +5V ARGB header on your motherboard, you can use your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync) to customize lighting effects and synchronize them with other ARGB components.
- **Included ARGB Controller:** If your motherboard does not have a compatible ARGB header, or if you prefer manual control, use the included ARGB controller to cycle through various lighting modes, colors, and effects.

Maintenance

Regular maintenance ensures optimal performance and longevity of your CPU cooler.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Ensure fans are not spinning during cleaning.
- **Leak Check:** While the unit features enhanced sealing to prevent leaks, it is good practice to visually inspect the tubing and connections for any signs of moisture or damage during routine PC maintenance.
- **Thermal Paste:** Reapply thermal paste if you remove the water block for any reason.

Troubleshooting

If you encounter issues with your Cooler Master MasterLiquid ML240L V2 ARGB, refer to the following common solutions:

- **No Power/Fans Not Spinning:** Ensure all power cables (pump PWM, fan PWM) are securely connected to the correct headers on the motherboard. Check your motherboard's BIOS settings to ensure fan headers are enabled and configured correctly.
- **Poor Cooling Performance:** Verify that the water block is making proper contact with the CPU and that thermal paste was applied correctly. Ensure fans are spinning and oriented to provide adequate airflow through the radiator. Check for dust buildup on the radiator fins.
- **ARGB Lighting Not Working/Incorrect:** Confirm that all ARGB cables are securely connected to the ARGB controller

and/or the motherboard's 3-pin +5V ARGB header. If using motherboard software, ensure it is up-to-date and correctly configured. If using the controller, try cycling through modes.

- **Unusual Noises:** Check for any obstructions in the fan blades. Ensure the pump is securely mounted and not vibrating against other components. A slight gurgling sound during initial startup is normal as air bubbles are purged from the loop.

Specifications

Brand	Cooler Master
Model Number	MLW-D24M-A18PA-R2
Series	MasterLiquid ML V2 ARGB
Radiator Dimensions	277 x 119.6 x 27.2mm
Fan Type	SickleFlow 120 ARGB
Number of Fans	2
Pump Type	3rd Gen Dual Chamber Pump
Noise Level	27 dB
Power Connector	3-pin (Pump), 4-pin PWM (Fans)
Voltage	12 Volts
Wattage	1.8 W
Cooling Method	Water
Compatible Devices	Desktop

Warranty and Support

This Cooler Master MasterLiquid ML240L V2 ARGB CPU Cooler (FN1402) is covered by a 2-year warranty from the official Japanese distributor. For technical support, troubleshooting assistance, or warranty claims, please contact your local Cooler Master support or the official distributor.

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