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Montech LightFlow ARGB 360

MONTECH LightFlow ARGB 360 CPU Liquid Cooler User Manual

Model: LightFlow ARGB 360

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MONTECH LightFlow ARGB 360 CPU Liquid Cooler. Designed for high-performance systems, this All-in-One (AIO) liquid cooler features an Infinity Mirror pump design, a 360mm radiator, and three 120mm ARGB fans to ensure optimal thermal management for your CPU. Please read this manual carefully before installation to ensure correct setup and to maximize the performance and longevity of your cooler.

PRODUCT OVERVIEW

The MONTECH LightFlow ARGB 360 is engineered to deliver superior cooling performance with a focus on aesthetic integration. Key features include:

- **Infinity Mirror Design:** The water block features a unique infinity mirror effect, adding a distinctive visual element to your PC build.
- **Optimized Thermal Performance:** The 360mm radiator is equipped with a dense 20 FPI (Fins Per Inch) fin structure, designed for efficient heat dissipation under demanding workloads.
- **Instant Setup:** The cooler comes with pre-installed fans and optimized cable routing for a straightforward installation process.
- **Broad Compatibility:** Supports a wide range of Intel (LGA 1700/1851) and AMD (AM4/AM5) CPU sockets.
- **High-Performance Pump:** A supreme high-performance water pump operates at 3100 RPM for effective coolant circulation.
- **ARGB Fans:** Three 120mm ARGB fans provide strong airflow (78.73 CFM) and customizable lighting.



Figure 1: The pump head showcasing the Infinity Mirror Design with integrated ARGB lighting, compatible with various motherboard RGB sync technologies.



Figure 2: Detail of the 27mm thick radiator, highlighting the dense 20 FPI fin stack designed for maximum heat exchange.

Optimized for High Thermal Performance

Precision-crafted with a dense 20 FPI fin structure, the radiator is engineered to maximize heat dissipation and sustain consistent cooling under heavy loads.



Fin Stack
with 20FPI

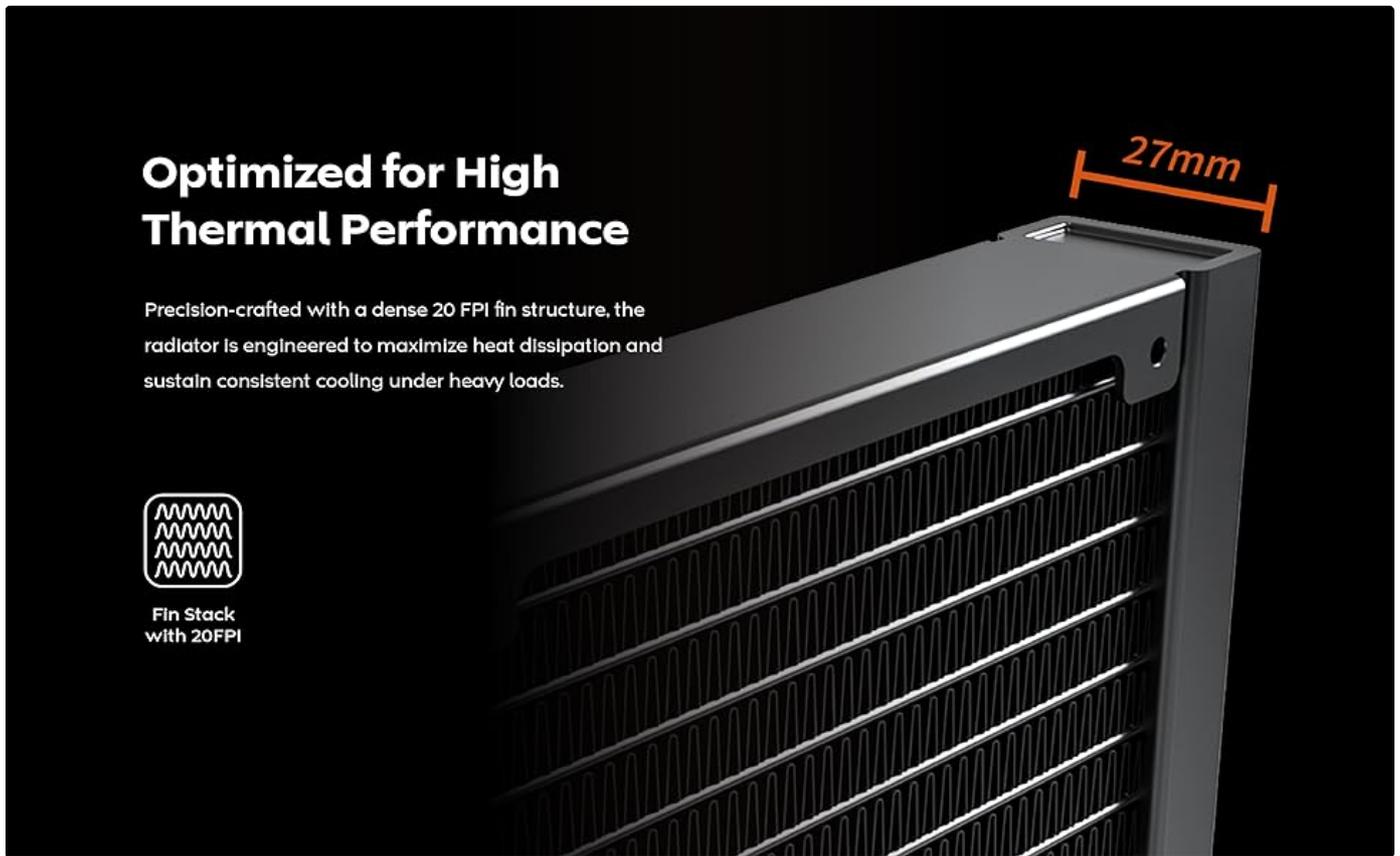


Figure 3: The 360mm radiator with its three 120mm fans pre-installed, simplifying the setup process.

SETUP AND INSTALLATION

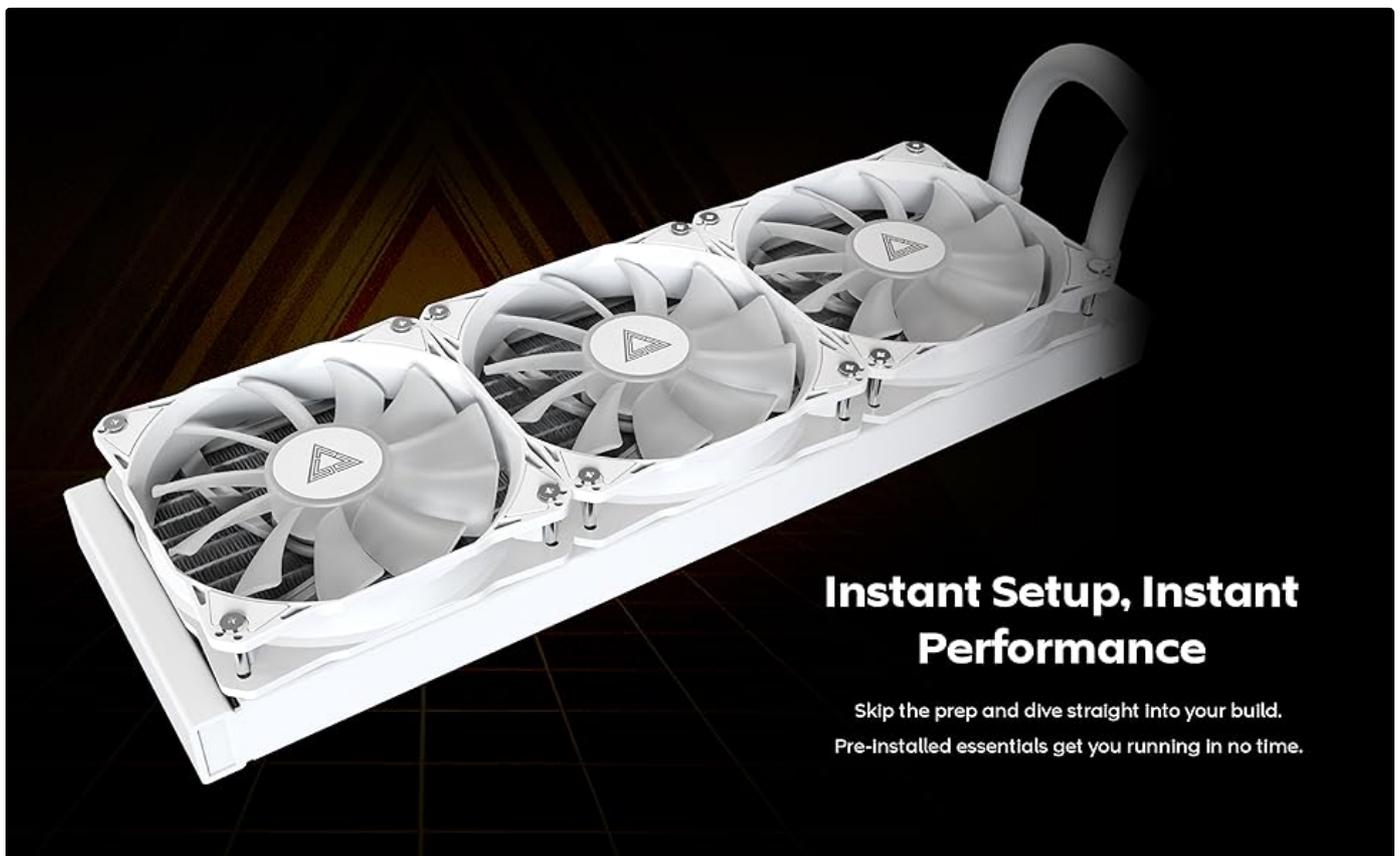
Before beginning installation, ensure your system is powered off and disconnected from the power source. Refer to your motherboard and PC case manuals for specific guidance on component installation and clearances.

Compatibility Check

The LightFlow ARGB 360 supports the following CPU sockets:

- **Intel:** LGA 1700, LGA 1851
- **AMD:** AM4, AM5

Verify that your PC case has adequate space for a 360mm radiator (15.63"L x 4.72"W x 1.06"H) and the associated fans. The total height with fans is approximately 52mm (27mm radiator + 25mm fan thickness).



Instant Setup, Instant Performance

Skip the prep and dive straight into your build.
Pre-installed essentials get you running in no time.

Figure 4: Illustrative diagram indicating the dimensions of the radiator and fans for proper case fitment.

Installation Steps (General Guide)

1. **Prepare Mounting Hardware:** Identify the correct mounting brackets and screws for your CPU socket (Intel or AMD).
2. **Install Backplate (if applicable):** For Intel sockets, install the appropriate backplate behind the motherboard. AMD AM4/AM5 typically uses the stock backplate.
3. **Mount Radiator:** Secure the 360mm radiator with its pre-installed fans to an available mounting location in your PC case (e.g., top, front). Ensure proper airflow direction.
4. **Apply Thermal Paste:** If not pre-applied, apply a small amount of high-quality thermal paste to the center of your CPU's Integrated Heat Spreader (IHS).
5. **Install Pump/Cold Plate:** Carefully place the pump/cold plate assembly onto the CPU, aligning it with the mounting studs. Secure it with the appropriate thumb screws or nuts until snug.
6. **Connect Cables:**
 - Connect the pump's 3-pin or 4-pin power cable to the CPU_FAN or AIO_PUMP header on your motherboard.
 - Connect the fan power cables (typically 4-pin PWM) to available fan headers on your motherboard or a fan controller.
 - Connect the ARGB cables (3-pin 5V) from the fans and pump to an ARGB header on your motherboard or a dedicated ARGB controller.
7. **Cable Management:** Route all cables neatly to ensure optimal airflow and a clean build appearance.



Figure 5: Included mounting hardware for both Intel (LGA 1700/1851) and AMD (AM4/AM5) platforms.

OPERATING INSTRUCTIONS

Once installed, the MONTECH LightFlow ARGB 360 operates automatically based on your motherboard's fan and pump control settings. Ensure your motherboard's BIOS/UEFI settings are configured to control the CPU fan/pump headers appropriately.

ARGB Lighting Control

The Addressable RGB (ARGB) lighting on the pump and fans can be controlled via your motherboard's RGB software (e.g., ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, ASRock Polychrome Sync) if connected to a compatible 3-pin 5V ARGB header. Consult your motherboard manual for specific software and control instructions.

Performance Monitoring

Monitor your CPU temperatures using system monitoring software to ensure the cooler is functioning optimally. The pump operates at a maximum rotational speed of 3100 RPM, and the fans provide an air flow capacity of 78.73 Cubic Centimeters Per Minute (CFM) at a noise level of 28 Decibels.

MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your liquid 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.
- **Inspect Tubing:** Occasionally check the tubing for any signs of kinks, damage, or leaks. While rare, early detection can prevent issues.
- **Fan Operation:** Ensure all fans are spinning freely and quietly. Replace any fans that become excessively noisy or stop functioning.
- **Thermal Paste:** Reapplying thermal paste every few years, or when reinstalling the cooler, can help maintain optimal thermal transfer.

TROUBLESHOOTING

If you encounter issues with your MONTECH LightFlow ARGB 360, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
High CPU Temperatures	Poor thermal paste application Pump not functioning Fans not spinning or insufficient airflow Radiator clogged with dust	Reapply thermal paste, ensuring even spread. Check pump power connection to motherboard. Verify fan connections and ensure they are spinning. Clean radiator. Clean radiator fins with compressed air.
ARGB Lighting Not Working	Incorrect ARGB header connection (e.g., 12V RGB instead of 5V ARGB) Loose ARGB cable connection Software conflict or incorrect settings	Ensure connection to a 3-pin 5V ARGB header. Check all ARGB cable connections. Verify motherboard RGB software settings.
Excessive Noise	Fan bearings worn or obstructed Pump noise (air bubbles) Loose mounting screws causing vibration	Inspect fans for obstructions; replace if necessary. Orient radiator to ensure pump is not the highest point in the loop. Tighten all mounting screws.

SPECIFICATIONS

Feature	Detail
Model Number	LightFlow ARGB 360
Product Dimensions	15.63"L x 4.72"W x 1.06"H (Radiator)
Cooling Method	Liquid (All-in-One)
Compatible Devices	Desktop PCs
CPU Socket Support	Intel LGA 1700/1851, AMD AM4/AM5
Pump Speed	3100 RPM (Maximum)
Fan Size	3 x 120mm ARGB Fans
Air Flow Capacity	78.73 CFM (Cubic Feet Per Minute)
Noise Level	28 Decibels
Radiator Material	Aluminum
Cold Plate Material	Copper
Power Connector Type	4-Pin (PWM for fans, typically 3-pin or 4-pin for pump)
Item Weight	4.05 pounds

WARRANTY AND SUPPORT

The MONTECH LightFlow ARGB 360 CPU Liquid Cooler is backed by a **6-year warranty**, ensuring long-term performance and peace of mind. This warranty covers defects in materials and workmanship under normal use.

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

Montech Official Website: www.montechpc.com