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Montech HyperFlow ARGB 360 Black

MONTECH HyperFlow ARGB 360 AIO CPU Liquid Cooler User Manual

Model: HyperFlow ARGB 360 Black

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MONTECH HyperFlow ARGB 360 AIO CPU Liquid Cooler. Designed for optimal thermal performance, this cooler features an enhanced 3100RPM water pump and three Metal Pro 12 ARGB cooling fans, ensuring efficient heat dissipation for Intel and AMD compatible systems.

2. Product Features

- Industry-leading 6-year warranty period for peace of mind.
- Gemstone design water pump with a rapid 3100RPM speed for efficient heat dissipation.
- Metal Pro 12 ARGB 28mm Fans operating at 2200 RPM for robust airflow pressure.
- Slim 27mm radiator with a single-row 20FPI fin design for powerful and efficient cooling.
- Flexible compatibility with Intel LGA 1700/1200/15X/2066 and AMD AM3/AM4/AM5 motherboard platforms.
- Simplified cable management with a pre-connected 7-pin short cable, compatible with 4-pin and 5V3pin connectors.
- Pre-installed fans and pre-applied thermal paste for quick setup.

3. Package Contents

Verify that all components are present before beginning installation:

- MONTECH HyperFlow ARGB 360 AIO Unit (Radiator, Pump, and Fans pre-assembled)
- Mounting Hardware for Intel LGA 1700/1200/15X/2066 sockets
- Mounting Hardware for AMD AM3/AM4/AM5 sockets
- Thermal Paste (pre-applied on cold plate)
- Thermal Paste Stencil (for reapplication)
- User Manual

Figure 3.1: Included installation components for various CPU sockets.

4. Setup and Installation

Follow these steps for proper installation of your HyperFlow ARGB 360 AIO cooler. Ensure your system is powered off and unplugged before proceeding.

4.1 Pre-Installation Check

The fans are pre-installed on the radiator, and thermal paste is pre-applied to the cold plate. This simplifies the installation process significantly.

Figure 4.1: Pre-installed fans and pre-applied thermal paste for convenience.

4.2 Mounting the Radiator and Fans

Mount the radiator and fans to an available 360mm mounting location in your PC case (e.g., top, front). Ensure proper airflow direction for optimal cooling.

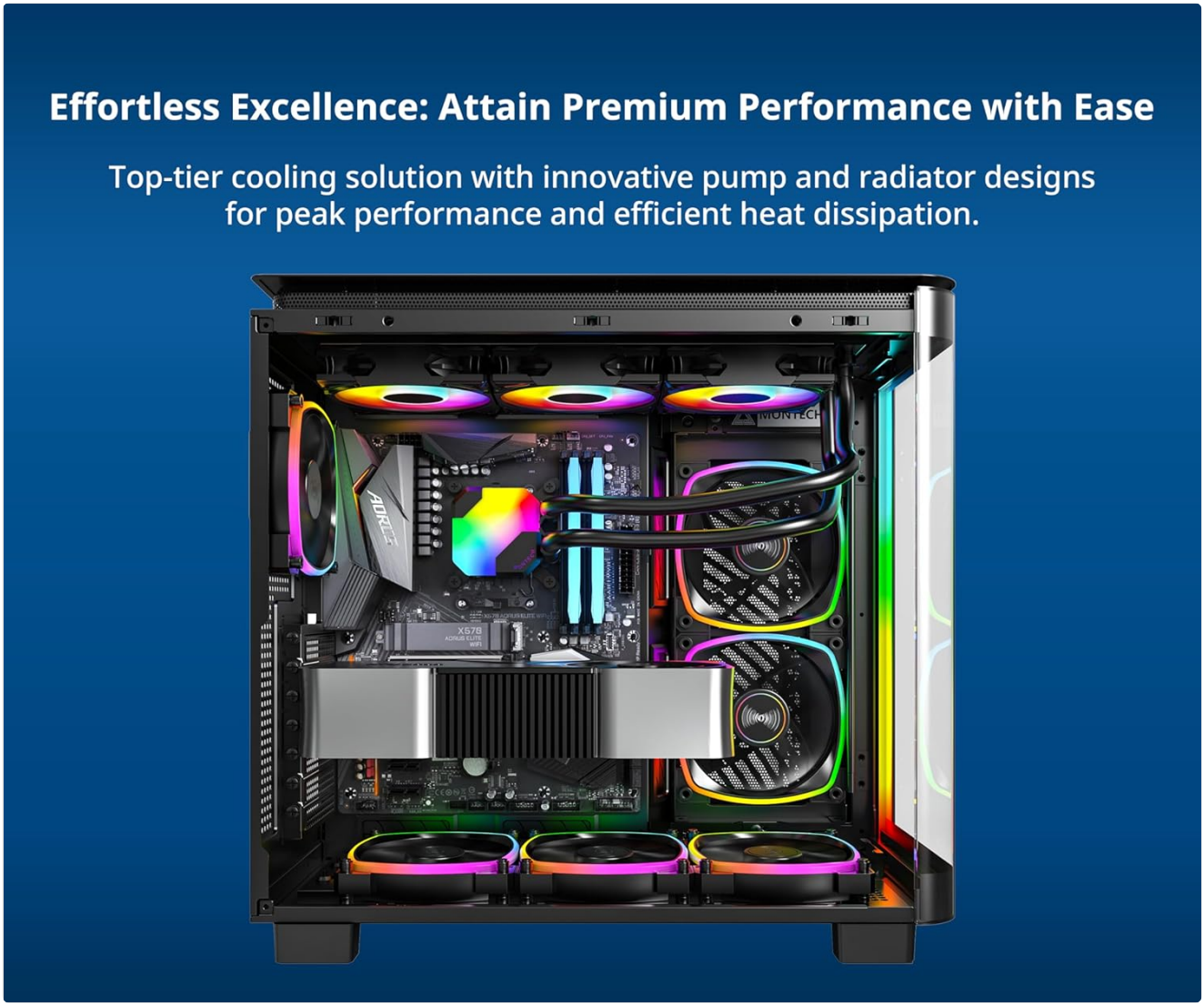

Figure 4.2: Example installation of the AIO cooler within a PC chassis.

4.3 Installing the Water Block

Select the appropriate mounting bracket for your CPU socket (Intel LGA 1700/1200/15X/2066 or AMD AM3/AM4/AM5). Secure the water block to your CPU according to the specific instructions for your motherboard and socket type. Ensure even pressure for proper thermal contact.

Figure 4.3: The HyperFlow water pump with a 3100 RPM motor for efficient cooling.

4.4 Cable Connections

The cooler features a pre-connected 7-pin short cable for simplified wiring. Connect the 4-pin PWM connector to your motherboard's CPU_FAN header and the 5V3pin ARGB connector to a compatible ARGB header on your motherboard for lighting control.

Figure 4.4: Simplified cable connections for the HyperFlow ARGB 360.

5. Operating Instructions

Once installed, the MONTECH HyperFlow ARGB 360 operates automatically, regulating pump and fan speeds based on CPU temperature. Ensure your motherboard's BIOS/UEFI settings are configured to allow PWM control for the CPU fan header.

5.1 Fan and Pump Operation

- **Water Pump:** Operates at a maximum rotational speed of 3100 RPM, ensuring rapid coolant circulation.
- **Cooling Fans:** Metal Pro 12 ARGB fans operate up to 2200 RPM, providing robust airflow.
- **Noise Level:** The cooler is designed for quiet operation, with a typical noise level of 28 dB.

Figure 5.1: Metal Pro 12 ARGB fan performance specifications.

5.2 ARGB Lighting Control

The ARGB lighting can be controlled via your motherboard's RGB software (if compatible with 5V3pin ARGB headers) or a dedicated ARGB controller (not included).

6. Maintenance

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

- **Dust Removal:** Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Ensure fans are not spinning during cleaning.
- **Thermal Paste:** The pre-applied thermal paste is designed for long-term use. If you need to remove and re-install the water block, clean off old thermal paste and apply new paste using the provided stencil for even coverage.
- **Tubing Inspection:** Occasionally inspect the tubing for any signs of kinks, leaks, or damage.

7. Troubleshooting

If you encounter issues with your cooler, refer to the following common troubleshooting steps:

- **High CPU Temperatures:**
  - Ensure the water block is securely mounted and making good contact with the CPU.
  - Verify that the pump is running (you may feel a slight vibration or hear a faint hum). Check pump power connection.
  - Confirm fans are spinning and airflow is unobstructed.
  - Check thermal paste application. Reapply if necessary.
- **Fans Not Spinning/ARGB Not Lighting:**

- Check all power and ARGB cable connections to the motherboard.
- Ensure appropriate headers are enabled in BIOS/UEFI.
- Test fans/ARGB with different headers or a known working setup if possible.

- **Unusual Noises:**
  - A gurgling sound immediately after installation may indicate air bubbles. This usually resolves itself over time.
  - Ensure no cables are interfering with fan blades.

8. Specifications

Feature	Specification
Model Number	HyperFlow ARGB 360 Black
Product Dimensions	15.63"L x 4.72"W x 1.06"H (39.7 x 12 x 2.7 cm)
Weight	4.23 Pounds (1.92 kg)
Cooling Method	Water Cooling
Pump Speed	Max 3100 RPM
Fan Speed	Max 2200 RPM (Metal Pro 12 ARGB)
Noise Level	28 dB (typical)
Power Connector Type	4-Pin (PWM)
ARGB Connector Type	5V3pin
Voltage	5 Volts
Wattage	14.28 watts
Compatible Devices	Gaming Computer
CPU Socket Compatibility	Intel LGA 1700/1200/15X/2066, AMD AM3/AM4/AM5
Radiator Material	Aluminum (with 20 FPI fin design)

9. Warranty and Support

MONTECH provides an industry-leading **6-year warranty** for the HyperFlow ARGB 360 AIO CPU Liquid Cooler. This warranty covers defects in materials and workmanship under normal use. For warranty claims or technical support, please contact MONTECH customer service through their official website or the retailer where the product was purchased.

Figure 9.1: MONTECH HyperFlow ARGB 360 6-Year World-Class Warranty.

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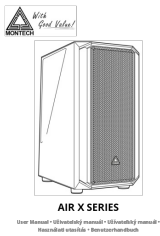
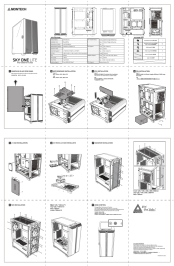
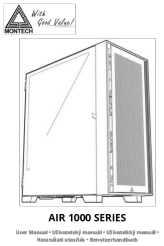
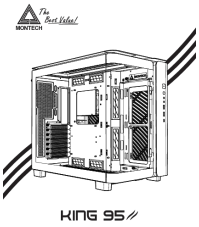
Related Documents - HyperFlow ARGB 360 Black

	MONTECH HyperFlow DIGITAL AIO Liquid CPU Cooler - Specifications & Installation Guide Comprehensive guide for the MONTECH HyperFlow DIGITAL AIO Liquid CPU Cooler, featuring detailed specifications, included accessories, and step-by-step installation instructions for Intel and AMD systems. Learn about thermal paste application, cable connections, and software setup.
	Montech AIR X SERIES PC Case User Manual User manual for the Montech AIR X SERIES PC case, detailing specifications, installation, and compatibility for components like motherboards, graphics cards, and cooling systems.

	[Montech Sky One Lite ATX Case Installation Guide] A comprehensive guide to installing components in the Montech Sky One Lite ATX computer case, covering motherboard, GPU, PSU, SSD, HDD, and radiator installations, along with fan and ARGB control.
	[Montech AIR 1000 Series PC Case User Manual] User manual for the Montech AIR 1000 Series PC case, covering specifications, installation, compatibility, and ARGB controller features. Includes content in English, Czech, Slovak, Hungarian, and German.
	[Montech KING 95 PC Case User Manual and Specifications] Detailed specifications, component breakdown, and installation guides for the Montech KING 95 and KING 95 PRO PC cases. Learn about fan and radiator support, drive bay configurations, I/O interfaces, and cable management.
	[MKey PRO Firmware Update Guide] A step-by-step guide for updating the firmware of the Montech MKey PRO keyboard using the QMK Toolbox.