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IN WIN MR24

InWin MR24 ARGB Close-Loop AIO CPU Liquid Cooler Instruction Manual

Model: MR24 | Brand: IN WIN

1. PRODUCT OVERVIEW

The InWin MR24 ARGB Close-Loop AIO CPU Liquid Cooler is designed to provide efficient and quiet cooling for your computer's central processing unit. Featuring a 240mm radiator and double 120mm ARGB PWM fans, this all-in-one liquid cooler is engineered to combat high temperatures and minimize noise through its radiator-mounted pump design. The rotatable CPU blockhead allows for flexible installation and aesthetic alignment within your PC build.



Image: The InWin MR24 ARGB liquid cooler showcasing its 240mm radiator, two 120mm ARGB fans, and the rotatable CPU blockhead with vibrant illumination.

Key Features:

- **Universal Brackets:** Supports Intel and AMD's latest CPUs, including AM5.
- **High-Performance ARGB Fans:** Equipped with Neptune AN120 fans for efficient cooling and customizable lighting.
- **Radiator-Mounted Pump:** Innovative design minimizes vibrations and suppresses noise for a quieter system.
- **Adjustable ARGB CPU Block:** Features a rotatable blockhead with ARGB lighting for aesthetic customization.
- **Durable Tubing:** Nylon mesh sleeves with strengthened rubber tubing to prevent leakage and ensure longevity.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the InWin MR24 ARGB Liquid Cooler. Failure to follow these instructions may result in damage to the product, personal injury, or voiding of the warranty.

- Ensure your system is powered off and unplugged from the wall outlet before installation.
- Handle components with care to avoid damage to sensitive electronic parts.
- Wear anti-static gloves or use an anti-static wrist strap to prevent electrostatic discharge (ESD).
- Do not attempt to open or modify the sealed liquid cooling loop.
- Keep the product away from liquids and excessive humidity.
- Ensure proper ventilation within your PC chassis to maintain optimal performance and prevent overheating.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your InWin MR24 ARGB Liquid Cooler package:

- MR24 Radiator with Integrated Pump and Tubing
- 2 x Neptune AN120 ARGB PWM Fans
- Intel Mounting Bracket (LGA 1700/1200/115x/20xx)
- AMD Mounting Bracket (AM5/AM4/AMX/FMX)
- Standoff Screws for Intel and AMD Sockets
- Fan Screws
- Radiator Screws
- Thermal Paste Syringe
- PWM Fan Extension Cable
- ARGB Water Block Cable
- User Manual (this document)



Image: A comprehensive view of all parts and accessories included in the InWin MR24 ARGB Liquid Cooler package, laid out for identification.

4. SETUP & INSTALLATION

Follow these steps carefully to install your InWin MR24 ARGB Liquid Cooler. For a visual guide, please refer to the installation video provided below.

Video: Official InWin MR24/36 Installation Guide, demonstrating the step-by-step process for mounting the cooler and connecting its components.

4.1. Fan Installation

1. Attach the Neptune AN120 fans to the radiator using the provided fan screws. Ensure the airflow direction is as desired (typically pushing air through the radiator).
2. Connect the PWM cables from the fans to the PWM Fan Extension Cable.
3. Connect the ARGB cables from the fans to the ARGB Water Block Cable.



Image: The 240mm radiator with two Neptune AN120 ARGB fans securely mounted, ready for chassis installation.

4.2. Radiator Installation

1. Determine the optimal mounting location for the radiator within your PC chassis (e.g., top, front, or rear).
2. Secure the radiator and fan assembly to the chassis using the appropriate radiator screws.



Image: A diagram illustrating the high-density microchannel fins of the radiator, designed for efficient heat dissipation from the liquid coolant.

4.3. Pump Unit Installation

1. Select the correct mounting bracket (Intel or AMD) for your CPU socket type.
2. Attach the Intel backplate to the bottom of the motherboard if installing on an Intel system.
3. Install the standoff screws onto your motherboard, ensuring they are tightened securely.
4. Apply a small amount of thermal paste to the center of your CPU's integrated heat spreader (IHS).
5. Carefully place the CPU blockhead onto the CPU, aligning the mounting holes with the standoff screws.
6. Secure the CPU blockhead by tightening the spring-loaded screws in a diagonal pattern until firm.



Image: A detailed view of the InWin MR24 CPU blockhead, highlighting its rotatable design and ARGB lighting ring.

4.4. Cable Connection

1. Connect the ARGB Water Block Cable to a 5V, 3-pin ARGB header on your motherboard (usually labeled M_B 3-Pin or ARGB_Header).
2. Connect the PWM Fan Extension Cable to a 12V, 4-pin PWM fan header on your motherboard (usually labeled M_B 4-Pin or CPU_FAN).
3. Connect the Pump Cable (from the radiator) to a dedicated AIO_PUMP or CPU_OPT header on your motherboard.



Image: A visual representation of the various cable connections required for the InWin MR24 liquid cooler, including ARGB and PWM headers.

5. OPERATING INSTRUCTIONS

Once installation is complete and verified, power on your system. The InWin MR24 ARGB Liquid Cooler will begin operating automatically.

- **Fan Control:** The PWM fans will adjust their speed based on CPU temperature, controlled by your motherboard's fan curves. These can typically be configured in your motherboard's BIOS/UEFI settings or through manufacturer-provided software.
- **ARGB Lighting Control:** The ARGB lighting on the fans and CPU blockhead can be controlled via your motherboard's ARGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync). Ensure your motherboard supports 5V, 3-pin ARGB.
- **Pump Operation:** The pump operates continuously to circulate coolant. Ensure the pump header in your BIOS is set to full speed or 'PWM' mode to ensure consistent flow.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your liquid cooler.

- **Dust Removal:** Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Dust accumulation can impede airflow and reduce cooling efficiency.
- **Check Tubing:** Visually inspect the tubing and connections for any signs of leaks, kinks, or damage.
- **Fan Noise:** If fans become excessively noisy, check for dust buildup or loose mounting screws.
- **Coolant Level:** As this is a closed-loop system, no coolant refilling is typically required.

7. TROUBLESHOOTING

If you encounter issues with your InWin MR24 ARGB Liquid Cooler, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
High CPU Temperatures	Insufficient thermal paste, poor contact with CPU, dust buildup on radiator, incorrect fan orientation, pump not running.	Reapply thermal paste, ensure secure mounting, clean radiator/fans, verify fan direction, check pump connection and BIOS settings.
Fans Not Spinning / No ARGB Lighting	Loose cable connections, incorrect header connection, motherboard software issues.	Check all PWM and ARGB cable connections, ensure connected to correct headers (12V 4-pin for PWM, 5V 3-pin for ARGB), update/reinstall motherboard ARGB software.
Unusual Noise from Cooler	Air bubbles in pump, fan bearing noise, loose fan/radiator screws.	Gently shake chassis to dislodge air bubbles (with system off), check fan screws, consider fan replacement if noise persists.

8. SPECIFICATIONS

Detailed technical specifications for the InWin MR24 ARGB Liquid Cooler:

Specification	Value
Brand	IN WIN
Model	MR24
Cooling Method	Water
Radiator Size	240mm
Fan Size	120mm (x2)
Fan Type	ARGB PWM Fans (Neptune AN120)
Maximum Rotational Speed	2500 RPM
Noise Level	20.5 dB
Power Connector Type	4-Pin (PWM)
Voltage	12 Volts
Compatible Devices	Desktop (AMD Ryzen AM5/AM4; Intel LGA 1700/1200)
Product Dimensions (LxWxH)	94.49 x 9.45 x 9.45 inches
Item Weight	4.22 pounds
Date First Available	September 23, 2023

9. WARRANTY & SUPPORT

InWin products are manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official InWin website. If you require technical assistance or have questions regarding your InWin MR24 ARGB Liquid Cooler, please contact InWin customer

support through their official channels.

For the latest drivers, software, and support resources, please visit the official InWin website:www.in-win.com

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