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> [ASUS ROG Ryujin III 360 ARGB WHT All-in-one Liquid CPU Cooler with 360mm Radiator. Asetek 8th gen Pump, 3X Magnetic 120mm ARGB Fans \(Daisy Chain Design\), 3.5 LCD Display. , WHITE 360mm|White ARGB Instruction Manual](#)

## ASUS ROG RYUJIN III 360 ARGB WHT

# ASUS ROG Ryujin III 360 ARGB WHT Liquid CPU Cooler Instruction Manual

Brand: ASUS | Model: ROG RYUJIN III 360 ARGB WHT

## 1. PRODUCT OVERVIEW

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The ASUS ROG Ryujin III 360 ARGB WHT is an all-in-one liquid CPU cooler designed for high-performance gaming systems. It features the latest 8th Gen Asetek pump solution and three 120mm magnetic ARGB fans, providing efficient cooling and customizable aesthetics.

### Key Features:

- 3.5" LCD Display for instant monitoring hardware information and allows users to upload customized GIF animation with doubled file volumes.
- Latest 8th gen Asetek pump with a 3-phase motor delivers ultimate cooling performance, higher flow and lower impedance, as well as noise reduction.
- Embedded fan with a new ring-shaped frame design and advanced airflow channels improved to reduce heat around VRM area.
- Premium ROG ARGB magnetic daisy-chainable fans with Gen 2 LED to allow users to customize the LED lighting effects.
- Armoury Crate offers complete control of pump, embedded fan, and radiator fan speeds, and allows custom animations and system stats to be displayed on the LCD screen.
- A free one-year AIDA 64 license is also provided for advanced system monitoring.

## 2. SETUP GUIDE

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### Package Contents:

- ROG RYUJIN III 360 ARGB WHT Liquid CPU Cooler
- 3x 120mm Magnetic ARGB Fans
- Mounting Hardware for Intel and AMD Sockets
- Cables and Accessories

### Installation Steps:

Follow these general steps for installing your ASUS ROG Ryujin III 360 ARGB WHT liquid CPU cooler. Refer to your motherboard's manual for specific CPU socket preparation.

1. **Prepare the Motherboard:** Install the appropriate backplate and standoffs for your CPU socket (Intel LGA 1851/1700/1200/115X or AMD AM5/AM4).
2. **Apply Thermal Paste:** Ensure a thin, even layer of thermal paste is applied to the CPU's integrated heat spreader (IHS). The cooler may come with pre-applied thermal paste.
3. **Mount the Pump Block:** Carefully place the pump block onto the CPU, aligning it with the standoffs. Secure it with the provided thumb screws or mounting nuts.
4. **Install Radiator and Fans:** Mount the 360mm radiator to an available fan mounting location in your PC case (typically top or front). Attach the three 120mm magnetic ARGB fans to the radiator. The magnetic daisy-chain design simplifies cable management.
5. **Connect Cables:** Connect the pump power cable to the CPU\_FAN or AIO\_PUMP header on your motherboard. Connect the fan cables to available fan headers or a fan controller. Connect the USB cable from the pump block to an internal USB 2.0 header on your motherboard for LCD display and software control.
6. **Cable Management:** Route all cables neatly to ensure optimal airflow and a clean build.



Figure 2.1: The ASUS ROG Ryujin III 360 ARGB WHT Liquid CPU Cooler.

# Magnetic Daisy-Chainable Fans

ROG MF 12S ARGB FAN



**2200**RPM

Fan Speed

**36.45**dB(A)

Fan Noise

**3.88**mm

H<sub>2</sub>O Air Pressure

**70.07**cfm

Airflow

Figure 2.2: Exploded view of the pump block showing the 8th Gen Asetek pump, cold plate, and embedded VRM fan.



Figure 2.3: Magnetic daisy-chainable ROG MF 12S ARGB Fans for easy installation.

Video 2.1: A user demonstrating the installation process and features of the ASUS ROG Ryujin III cooler, including magnetic fans and LCD customization.

### 3. OPERATION

The ROG Ryujin III features a vibrant 3.5-inch LCD display on the pump block, allowing for real-time system monitoring and personalized content. Control and customization are managed through the ASUS Armoury Crate software.

#### LCD Display Customization:

- **System Monitoring:** Display critical hardware information such as CPU temperature, voltage, and frequency.
- **Custom Animations:** Upload personalized GIF animations or images to showcase your unique style. The display supports doubled file volumes and increased frame support compared to previous models.

#### Armoury Crate Software:

Download and install the ASUS Armoury Crate software from the official ASUS website. This software provides comprehensive control over your cooler:

- Adjust pump speed for optimal cooling performance and noise levels.
- Control radiator fan speeds and embedded VRM fan speeds.
- Customize RGB lighting effects for the fans and pump block.
- Manage and upload content for the 3.5-inch LCD display.

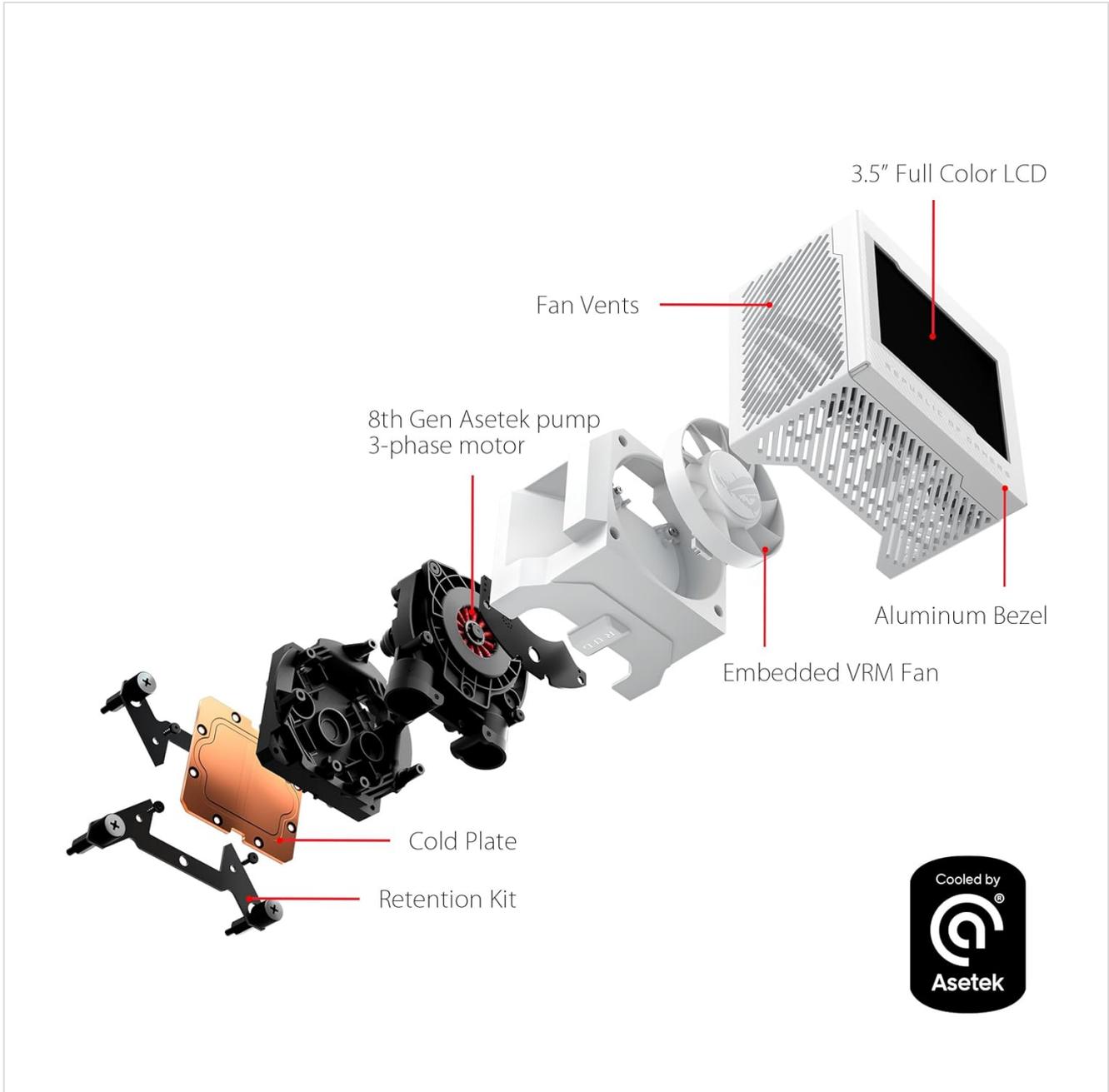


Figure 3.1: The 3.5-inch Full Color LCD Display on the pump block.

# Full Color 3.5" LCD Display



**2X Upload Capacity**

16 → **32 MB**

**4X Frame Support**

500 → **2000 Frames**

Figure 3.2: The LCD Display showing real-time CPU temperature and other system statistics.

## 4. MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure fans are not spinning during cleaning.
- **Check Tubing:** Inspect the tubing for any kinks, leaks, or signs of wear.
- **Pump Block Cleaning:** Gently wipe the pump block and LCD screen with a soft, dry cloth to remove dust and fingerprints.
- **Thermal Paste:** While not frequently required, consider reapplying thermal paste if you notice a significant increase in CPU temperatures over time, especially after disassembling the cooler.

## 5. TROUBLESHOOTING

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If you encounter issues with your ASUS ROG Ryujin III 360 ARGB WHT, refer to the following common

troubleshooting tips:

- **No Display on LCD:** Ensure the USB cable from the pump block is securely connected to an internal USB 2.0 header on your motherboard. Check Armoury Crate software for display settings and updates.
- **Fans Not Spinning/RGB Not Working:** Verify all fan and RGB cables are correctly connected to their respective headers or controllers. Check Armoury Crate for fan speed and lighting settings.
- **High CPU Temperatures:** Confirm the pump is running (you might feel a slight vibration on the pump block). Ensure the pump block is securely mounted to the CPU with adequate thermal paste. Check for any obstructions to airflow through the radiator. Verify fan speeds are set appropriately in Armoury Crate.
- **Software Issues (Armoury Crate):** If Armoury Crate is buggy or not detecting the cooler, try restarting your system, reinstalling the software, or checking for the latest software updates from the ASUS support website.
- **Unusual Noises:** If you hear gurgling or unusual pump noises, gently tilt your PC case to help dislodge any trapped air bubbles in the loop. If the noise persists or is excessive, contact ASUS support.

## 6. TECHNICAL SPECIFICATIONS

| Feature                  | Specification                        |
|--------------------------|--------------------------------------|
| Product Dimensions       | 3.94 x 3.5 x 3.58 inches; 3.9 Pounds |
| Item Model Number        | ROG RYUJIN III 360 ARGB WHT          |
| Manufacturer             | ASUS                                 |
| Power Connector Type     | 3-Pin                                |
| Voltage                  | 12 Volts                             |
| Cooling Method           | Water, Fan                           |
| Compatible Devices       | Desktop                              |
| Noise Level              | 36.45 dB                             |
| Maximum Rotational Speed | 2200 RPM                             |
| Air Flow Capacity        | 70.07 Cubic Feet Per Minute          |
| UPC                      | 197105190566                         |

## 7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ASUS support channels.

- **Manufacturer:** ASUS
- **Protection Plans:** Additional protection plans are available for purchase, including 3-Year and 4-Year plans, and a Complete Protect monthly plan.
- **Online Resources:** Visit the ASUS support website for drivers, software (Armoury Crate), FAQs, and further assistance.

**Related Documents - ROG RYUJIN III 360 ARGB WHT**

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|     | <p><a href="#">ASUS ROG Ryujin III ARGB Series CPU Liquid Cooler Quick Start Guide</a></p> <p>This quick start guide provides essential information for installing the ASUS ROG Ryujin III ARGB Series CPU Liquid Cooler. It includes package contents, detailed installation steps for Intel and AMD platforms, fan and radiator mounting, cable connections, software download instructions, and frequently asked questions.</p> |
|    | <p><a href="#">ASUS ROG Ryujin III ARGB Series CPU Liquid Cooler Quick Start Guide</a></p> <p>Quick start guide for the ASUS ROG Ryujin III ARGB Series CPU Liquid Cooler, covering package contents, installation steps for Intel and AMD platforms, fan connection, radiator installation, software download, and support.</p>   |
|    | <p><a href="#">ASUS ROG RYUO III ARGB Series CPU Liquid Cooler Quick Start Guide</a></p> <p>Comprehensive quick start guide for the ASUS ROG RYUO III ARGB Series CPU Liquid Cooler, covering installation for Intel and AMD, cable connections, and software setup for optimal PC cooling.</p>  |
|   | <p><a href="#">ASUS ROG RYUJIN II Series Liquid CPU Cooler Quick Start Guide</a></p> <p>This guide provides instructions for installing the ASUS ROG RYUJIN II Series Liquid CPU Cooler. It covers package contents, Intel and AMD mounting procedures, radiator installation, cable connections, fan controller setup, software download, and frequently asked questions.</p>   |
|  | <p><a href="#">ASUS ROG Ryujin Series Liquid CPU Cooler Quick Start Guide</a></p> <p>A quick start guide for the ASUS ROG Ryujin Series Liquid CPU Cooler, providing installation instructions and support information in multiple languages.</p>  |
|  | <p><a href="#">ASUS ROG RYUJIN III Series CPU Liquid Cooler Quick Start Guide</a></p> <p>This document provides a quick start guide for the ASUS ROG RYUJIN III Series CPU Liquid Cooler, covering package contents, installation steps for Intel and AMD platforms, cable connections, software download, and support information.</p>  |