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> CORSAIR Hydro Series H100i v2 AIO Liquid CPU Cooler User Manual

Corsair CW-9060025-WW

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Model: CW-9060025-WW

INTRODUCTION

The CORSAIR Hydro Series H100i v2 is an extreme performance, all-in-one liquid CPU cooler designed for cases with 240mm radiator mounts. It features a 240mm radiator and dual SP120L PWM fans, providing efficient heat dissipation for highly overclocked CPUs. Integrated Corsair Link software allows for monitoring temperatures, adjusting cooling performance, and customizing LED lighting directly from your desktop. This cooler is compatible with CORSAIR iCUE software for advanced control.



Figure 1: CORSAIR Hydro Series H100i v2 AIO Liquid CPU Cooler

This image displays the CORSAIR Hydro Series H100i v2 AIO Liquid CPU Cooler, showcasing its 240mm radiator, two 120mm PWM fans, and the integrated pump/cold plate unit with tubing. The components are black and grey, designed for efficient CPU cooling.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. This section outlines the general steps for installing your Hydro

Series H100i v2. Always refer to the official Corsair Quick Start Guide for detailed, model-specific instructions.

Pre-Installation Checklist:

- Ensure all parts are present and free from defects. The pump unit's base plate should have a thin, smooth layer of pre-applied thermal paste.
- Verify case compatibility. The H100i v2 requires a case with a 240mm radiator mount. Consider the available "head room" to avoid interference with other components.
- Have isopropyl alcohol and wipes ready in case thermal paste needs to be reapplied.

Installation Steps:

1. **Prepare Motherboard:** Locate the 4 standoff screws for your CPU socket (e.g., Intel 115x, 1366, 2011, 2011-3, 2066, or AMD FM1, FM2, AM2, AM3, AM4). Position the backplate behind the motherboard and loosely thread the standoff screws, tightening them finger-tight.
2. **Mount Fans to Radiator:** Attach the two 120mm fans to the radiator using the long screws. Determine desired airflow direction (intake or exhaust) and ensure both fans are oriented consistently.
3. **Install Radiator:** Position the radiator against the inside of your case (typically at the top or front). Secure it to the case using the 8 short screws, inserting them from the outside. Do not fully tighten until all screws are in place.
4. **Attach Pump Unit to CPU:** Carefully align the pump unit with the CPU. The pre-applied thermal paste should be intact. Hold the pump unit firmly and flat against the CPU while securing it with the four threaded nuts. Tighten the nuts finger-tight in a diagonal pattern to ensure even pressure. Avoid over-tightening.
5. **Connect Power and Data Cables:**
 - Connect the pump power cable to the CPU_FAN header on your motherboard.
 - Connect the two fan cables from the radiator fans to the two connectors coming off the pump unit.
 - (Optional) Connect the small USB connector from the pump to a USB 2.0 header on your motherboard for Corsair Link/iCUE software functionality.
6. **BIOS Configuration:** If the pump is connected to CPU_FAN, ensure the fan profile for CPU_FAN in your BIOS is set to full speed (12V) to ensure consistent pump operation.

OPERATING INSTRUCTIONS

Once installed, the CORSAIR Hydro Series H100i v2 operates automatically to cool your CPU. For advanced control and monitoring, utilize the CORSAIR iCUE software.

CORSAIR iCUE Software:

The CORSAIR iCUE software (formerly Corsair Link) provides comprehensive control over your cooler's performance and aesthetics. Download the latest version from the official Corsair website.

- **Monitoring:** View real-time temperatures for your CPU, coolant, and other system components. Monitor pump speed and individual fan speeds.
- **Performance Control:** Adjust fan speeds (PWM control from 850 RPM to 2,435 RPM) and pump speed to optimize for quiet operation or maximum cooling performance.
- **RGB Lighting Customization:** Personalize the RGB lighting effects on the pump head to match your system's theme or create dynamic lighting patterns.
- **Profiles:** Create and save custom profiles for different usage scenarios (e.g., quiet browsing, gaming, heavy workloads).

Ensure the USB connection from the cooler to your motherboard is established for iCUE software functionality.

MAINTENANCE

The CORSAIR Hydro Series H100i v2 is an all-in-one closed-loop liquid cooler, requiring minimal maintenance. However, periodic checks can help ensure its longevity and optimal performance.

- **Dust Removal:** Regularly inspect the radiator fins and fans for dust buildup. Use compressed air to gently clear dust from the radiator and fan blades. Excessive dust can impede airflow and reduce cooling efficiency.
- **Fan Inspection:** Check fan blades for any obstructions or signs of wear. Ensure fans are spinning freely and quietly.
- **Tubing and Connections:** Periodically inspect the tubing for any kinks, cracks, or signs of leakage. Ensure all connections to the pump and radiator are secure.
- **Thermal Paste:** The pre-applied thermal paste is designed for long-term use. Reapplication is generally not necessary unless the cooler is removed from the CPU. If reapplication is required, clean both surfaces thoroughly with isopropyl alcohol before applying new thermal paste.

TROUBLESHOOTING

This section addresses common issues you might encounter with your CORSAIR Hydro Series H100i v2.

High CPU Temperatures:

- **Check Pump Connection:** Ensure the pump power cable is securely connected to the CPU_FAN header and that the BIOS setting for this header is set to full speed (12V).
- **Verify Fan Operation:** Confirm that both radiator fans are spinning. If not, check their connections to the pump unit.
- **Dust Buildup:** Inspect the radiator for dust accumulation and clean if necessary.
- **Proper Mounting:** Ensure the pump unit is securely and evenly mounted to the CPU, providing good contact with the thermal paste. Uneven pressure can lead to poor heat transfer.
- **Airflow:** Verify that your case has adequate airflow and that the radiator fans are not obstructed.

Unusual Noises:

- **Fan Noise:** Fans can become noisy at high RPMs. Adjust fan curves in iCUE software to find a balance between cooling and noise. If a fan makes grinding or clicking noises, it may be failing and require replacement.
- **Pump Noise:** A slight hum from the pump is normal. Excessive gurgling or grinding sounds might indicate air bubbles in the loop or a failing pump. Gently tilt your PC case to help dislodge air bubbles.

RGB Lighting Not Working:

- **USB Connection:** Ensure the cooler's USB cable is properly connected to a motherboard USB 2.0 header.
- **iCUE Software:** Verify that CORSAIR iCUE software is installed and running, and that the cooler is detected. Check lighting settings within the software.

SPECIFICATIONS

Key technical specifications for the CORSAIR Hydro Series H100i v2:

Feature	Specification
Product Dimensions	10.87"L x 1.18"W x 4.92"H
Brand	Corsair

Feature	Specification
Model Number	CW-9060025-WW
Power Connector Type	4-Pin
Voltage	12 Volts
Wattage	260 watts
Cooling Method	Water
Compatible Sockets	Intel LGA 115x, 1366, 2011, 2011-3, 2066 and AMD FM1, FM2, AM2, AM3, AM4
Noise Level	38 dB
Material	Copper
Maximum Rotational Speed	2435 RPM
Air Flow Capacity	70.69 Cubic Feet Per Minute
Item Weight	4 pounds
Color	Black

WARRANTY AND SUPPORT

For warranty information and detailed support, please refer to the official documentation provided by Corsair or visit their support website.

- [User Guide \(PDF\)](#)
- [Installation Manual \(PDF\)](#)
- For additional support and the latest software downloads (e.g., CORSAIR iCUE), visit the official [Corsair Store](#) or their main website.