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› NZXT Kraken 240 AIO CPU Liquid Cooler Instruction Manual

NZXT RL-KN-240-B1

NZXT Kraken 240 AIO CPU Liquid Cooler Instruction Manual

Model: RL-KN-240-B1

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NZXT Kraken 240 AIO CPU Liquid Cooler. Designed for optimal thermal performance and aesthetic customization, this cooler ensures your system runs efficiently and quietly.



Figure 1: NZXT Kraken 240 AIO CPU Liquid Cooler, showcasing the radiator, fans, and pump with its integrated LCD display.

PRODUCT FEATURES

- **Customizable 1.54" Square LCD Display:** Personalize your cooler with animated GIFs, static images, real-time PC performance metrics, or web content via NZXT CAM software.
- **High-Performance Asetek Pump:** Ensures efficient and quiet coolant circulation for superior thermal management.
- **Static Pressure F120P Fans:** Provides an optimal balance of high static pressure and airflow for powerful cooling with minimal noise.
- **Simple Installation:** Features a single breakout cable from the pump to the motherboard for streamlined setup.
- **Reinforced Tubing:** Nylon-braided sleeves protect the rubber tubing from leaks and ensure worry-free handling.
- **CPU Compatibility:** Includes all necessary mounting hardware for both Intel and AMD CPU sockets.

SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and disconnected from the power source. Refer to your motherboard manual for specific CPU socket and fan header locations.

1. Prepare the Motherboard

Identify the correct mounting brackets for your CPU socket (Intel or AMD). Attach the appropriate standoffs to the motherboard.



POWERFUL COOLING

Static Pressure Fans with fluid dynamic bearings provide powerful cooling with minimal noise.

Figure 2: The pump head of the Kraken 240, showing the pre-applied thermal paste and the clear plastic cover. The Kraken 240 pump comes with pre-applied thermal paste. Keep the plastic cover on the copper cooling plate until the final step of mounting to prevent contamination.

2. Mount the Radiator and Fans

Attach the two F120P fans to the 240mm radiator using the provided screws. Ensure the fans are oriented to provide optimal airflow for your case configuration (e.g., intake or exhaust).



PERSONALIZATION THAT POPS

Display images, real-time PC performance metrics, web integrations and more with NZXT CAM software.

Figure 3: The 240mm radiator with two F120P fans installed, ready for mounting inside the PC case.

Secure the assembled radiator and fans to an available mounting location in your PC case, typically at the top or front.

3. Install the Pump

Carefully remove the plastic cover from the pump's copper cooling plate. Align the pump with the standoffs on the motherboard and gently lower it until it makes contact with the CPU. Secure the pump using the thumb screws.



SIMPLE SETUP

A single breakout cable from pump to motherboard makes for easy installation.

Figure 4: The NZXT Kraken 240 pump head mounted onto the CPU socket on a motherboard, showing the single breakout cable connection.

4. Connect Cables

Connect the single breakout cable from the pump to the appropriate headers on your motherboard. This typically includes a CPU_FAN header and a USB 2.0 header for NZXT CAM software control. Connect the fan cables to the fan headers on the motherboard or a fan controller.



HIGH-PERFORMANCE PUMP

The powerful Asetek pump circulates coolant efficiently and quietly.

Figure 5: Detailed view of the cable connections from the Kraken 240 pump, including the single breakout cable for simplified setup.

OPERATING THE KRAKEN 240

Once installation is complete and your system is powered on, the Kraken 240 will begin cooling your CPU. To unlock the full potential of the customizable LCD display and monitor performance, install the NZXT CAM software.

NZXT CAM Software

Download and install the latest version of NZXT CAM from the official NZXT website. This software allows you to:

- Monitor CPU and GPU temperatures, fan speeds, and pump RPM.
- Customize the content displayed on the 1.54" LCD screen, including images, GIFs, and system metrics.
- Adjust fan curves and pump speeds for optimal cooling performance and noise levels.
- Integrate with various web content and applications for dynamic display options.

MAINTENANCE

The NZXT Kraken 240 is designed for low maintenance. However, regular checks can help ensure its longevity and optimal performance.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fans using compressed air. Ensure the fans are not spinning during cleaning to prevent damage.
- **Tubing Inspection:** Visually inspect the nylon-braided tubing for any signs of kinks, leaks, or damage.
- **Software Updates:** Keep your NZXT CAM software updated to benefit from the latest features, performance optimizations, and bug fixes.

TROUBLESHOOTING

If you encounter issues with your NZXT Kraken 240, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
High CPU Temperatures	Insufficient thermal paste contact, dust buildup on radiator, incorrect fan orientation, pump not functioning.	Re-seat pump, clean radiator/fans, check fan orientation, verify pump connection and function via NZXT CAM.
LCD Display Not Working	Loose USB connection, NZXT CAM software issue, driver conflict.	Check USB 2.0 header connection, restart NZXT CAM, update/reinstall NZXT CAM, update motherboard chipset drivers.
Fans Not Spinning/Loud	Loose fan connection, incorrect fan curve in NZXT CAM, fan malfunction.	Check fan header connections, adjust fan curve in NZXT CAM, replace faulty fan.
Leakage	Damaged tubing or fittings.	Immediately power off system. Contact NZXT support for warranty and replacement.

SPECIFICATIONS

- **Model Number:** RL-KN-240-B1
- **Radiator Dimensions:** 275 x 123 x 30 mm (10.83 x 4.84 x 1.18 inches)
- **Material:** Aluminum (radiator), Copper (cold plate), Rubber (tubing with nylon braid)
- **Pump Speed:** Up to 2,800 RPM
- **Fan Type:** F120P Static Pressure Fans
- **Fan Speed:** Up to 1800 RPM
- **Noise Level:** 30.6 dB (max)
- **LCD Display:** 1.54" Square, 240x240 resolution, 30 Hz refresh rate, 300 cd/m² brightness
- **Power Connector:** 4-Pin
- **Voltage:** 12 Volts
- **Wattage:** 12 watts
- **Cooling Method:** Water
- **Compatible Devices:** Desktop

WARRANTY AND SUPPORT

The NZXT Kraken 240 AIO CPU Liquid Cooler comes with a manufacturer's warranty. For detailed warranty information and technical support, please visit the official NZXT website or contact their customer service.

Online Support: www.nzxt.com/support

Product Registration: Register your product online to receive updates and support.

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