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› EVGA CLC_x 280mm All-in-One LCD CPU Liquid Cooler (Model 400-HY-CX28-V1) - User Manual

EVGA 400-HY-CX28-V1

EVGA CLC_x 280mm All-in-One LCD CPU Liquid Cooler

Model: 400-HY-CX28-V1

1. INTRODUCTION

The EVGA CLC_x Series All-in-One (AIO) CPU Liquid Cooler is designed to provide efficient cooling for your processor. This 280mm model features a 7th Generation Asetek water pump, two 140mm PWM ARGB fans, and an integrated 480x480 LCD display. It is compatible with a range of Intel and AMD CPU sockets, offering a robust cooling solution for desktop systems.

Key features include:

- 2.1" 480x480 LCD Screen for displaying system temperatures or custom images/animations.
- 7th Generation Asetek water pump with a 100% copper heatsink for optimal heat transfer.
- Compatibility with Intel LGA1700/1200/115X and AMD AM5/AM4 sockets.
- 280mm radiator paired with two 140mm EVGA Hydro-Dynamic Bearing ARGB Fans.
- EVGA CLC_x Software suite for monitoring and managing cooler performance.



Image 1.1: The EVGA CLCx 280mm All-in-One LCD CPU Liquid Cooler.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package before proceeding with installation.

- EVGA CLCx Unit (Radiator, Pump/Block with LCD, and pre-attached tubing)
- Two 140mm ARGB Fans
- Mounting Hardware for Intel (LGA1700/1200/115X)
- Mounting Hardware for AMD (AM5/AM4)
- Fan and RGB Cables
- Installation Manual (Quick Start Guide)



Image 2.1: Included components and mounting hardware.

3. SPECIFICATIONS

Feature	Specification
Model Number	400-HY-CX28-V1
Radiator Size	280mm
Radiator Material	Aluminum
Pump Type	Asetek 7th Generation
Cold Plate Material	Copper
Fan Size	140mm

Feature	Specification
Fan Bearing Type	Hydro-Dynamic Bearing
Fan Speed	0-2380 RPM $\pm$ 10%
Noise Level	35 dB (Maximum)
LCD Display	2.1" 480x480 RGB
Compatible Sockets	Intel LGA1700/1200/115X, AMD AM5/AM4
Product Dimensions	17"L x 6.4"W x 7.8"H (approximate, including fans)
Weight	1 kg



Image 3.1: Copper cold plate on the pump block for efficient heat transfer.

4. SETUP AND INSTALLATION

This section provides a general overview of the installation process. Refer to the detailed installation guide provided with your product for specific, step-by-step instructions for your CPU socket type.

4.1. Pre-Installation Checks

- Ensure your PC case has adequate space for a 280mm radiator and two 140mm fans.
- Verify your motherboard's CPU socket type (Intel LGA1700/1200/115X or AMD AM5/AM4) matches the provided mounting hardware.
- Gather necessary tools, including a screwdriver.

4.2. General Installation Steps

1. **Prepare the Motherboard:** Install the appropriate backplate (for Intel) or use the existing backplate (for AMD) and secure the standoffs around the CPU socket.
2. **Mount the Radiator and Fans:** Attach the two 140mm ARGB fans to the radiator. Secure the radiator assembly to an available fan mount location in your PC case (e.g., front, top, or rear). Ensure proper airflow direction.
3. **Install the Pump/Block:** Apply thermal paste to the CPU (if not pre-applied on the cold plate). Carefully place the pump/block onto the CPU, aligning it with the standoffs. Secure it with the provided thumb screws or nuts.
4. **Connect Cables:**
 - Connect the pump's power cable to an available CPU_FAN or AIO_PUMP header on your motherboard.
 - Connect the fan power cables to available fan headers on your motherboard or a fan controller.
 - Connect the ARGB cables from the fans and pump to a compatible ARGB header on your motherboard or an ARGB controller.
 - Connect the USB cable from the pump to an internal USB 2.0 header on your motherboard for LCD display and software control.



Image 4.1: Side view of the pump block, showing tubing connections.

5. OPERATING INSTRUCTIONS

The EVGA CLCx cooler is controlled and monitored via the EVGA CLCx Software suite.

5.1. EVGA CLCx Software

- **Download and Installation:** Download the latest EVGA CLCx Software from the official EVGA website. Install it on your operating system.
- **Monitoring:** The software allows you to monitor CPU temperature, coolant temperature, pump speed, and fan speeds in real-time.
- **Performance Control:** Adjust fan curves and pump speeds to optimize for cooling performance or quiet operation. You can create custom profiles based on your system's needs.
- **LCD Customization:** Personalize the 2.1" LCD display on the pump block. You can choose to display system vitals (CPU/coolant temps, pump/fan RPM), custom images, or animations.

- **ARGB Control:** Manage the lighting effects and colors of the ARGB fans and the pump block's integrated lighting.

5.2. LCD Display

The integrated 480x480 LCD display provides immediate visual feedback on your cooler's status. It can be rotated via the CLCx Software to ensure correct orientation regardless of pump mounting angle.



Image 5.1: Close-up of the LCD display showing system metrics.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your EVGA CLCx liquid cooler.

- **Dust Removal:** Periodically inspect the radiator fins and fans for dust accumulation. Use compressed air to gently clean the fins and fan blades. Ensure the fans are not spinning during cleaning to prevent damage.
- **Cable Management:** Ensure all cables are securely connected and properly routed to avoid interference with fan blades or other components.

- **Software Updates:** Regularly check for updates to the EVGA CLCx Software to ensure you have the latest features and bug fixes.
- **Visual Inspection:** Occasionally check the tubing and connections for any signs of leaks or damage. While AIOs are sealed systems, a quick visual check can help identify potential issues early.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EVGA CLCx cooler.

7.1. High CPU Temperatures

- **Check Pump Connection:** Ensure the pump's power cable is securely connected to the motherboard's CPU_FAN or AIO_PUMP header and receiving power.
- **Verify Thermal Paste:** Confirm that thermal paste was properly applied between the CPU and the cold plate. Re-application may be necessary if the cooler was previously installed.
- **Fan Operation:** Check if the fans are spinning correctly and in the intended direction (pushing or pulling air through the radiator). Ensure fan cables are connected.
- **Radiator Airflow:** Ensure the radiator fins are not obstructed by dust or cables, which can impede airflow.
- **Software Settings:** Open the EVGA CLCx Software and verify that fan and pump speeds are set appropriately for your cooling needs. Avoid overly aggressive 'silent' profiles if experiencing high temperatures.

7.2. LCD Display Not Working / Software Connectivity Issues

- **USB Connection:** Ensure the internal USB 2.0 cable from the pump is securely connected to both the pump and an available header on your motherboard. Try a different USB header if available.
- **Software Installation:** Confirm the EVGA CLCx Software is correctly installed and up to date. Reinstalling the software may resolve issues.
- **System Restart:** A system restart can often resolve temporary communication glitches between the software and the cooler.

7.3. Excessive Fan Noise

- **Fan Speed Settings:** Adjust fan curves in the EVGA CLCx Software to reduce fan speeds at lower temperatures.
- **Fan Mounting:** Ensure fans are securely mounted to the radiator and case, as loose mounting can cause vibrations and noise.
- **Dust Buildup:** Clean fans and radiator fins as described in the Maintenance section.

8. WARRANTY AND SUPPORT

The EVGA CLCx 280mm All-in-One LCD CPU Liquid Cooler (Model 400-HY-CX28-V1) is covered by a **5-Year Limited Warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or further assistance, please visit the official EVGA website and navigate to their support section. You will typically need your product's serial number and proof of purchase for warranty services.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question