Corsair RX120 RGB

CORSAIR iCUE Link RX120 RGB 120mm PWM Fans with System Hub - Instruction Manual

Brand: Corsair | Model: RX120 RGB

INTRODUCTION

The CORSAIR iCUE Link RX120 RGB 120mm PWM Fans are designed to provide superior airflow and vibrant RGB lighting for your PC system. Featuring a groundbreaking design, these fans deliver high performance with low noise levels, thanks to Magnetic Dome bearings. The iCUE Link technology simplifies connectivity, allowing multiple fans to connect seamlessly with a single cable to the included iCUE Link System Hub. This manual provides essential information for the proper setup, operation, and maintenance of your RX120 RGB fans.

Figure 1: CORSAIR iCUE Link RX120 RGB 120mm PWM Fans (White, Triple Pack)

WHAT'S IN THE BOX

Your CORSAIR iCUE Link RX120 RGB Starter Kit includes the following components:

- 3 x CORSAIR iCUE Link RX120 RGB 120mm PWM Fans
- 1 x CORSAIR iCUE Link System Hub
- Mounting Screws
- iCUE Link Bridge Connectors

- Documentation (Quick Start Guide, Safety Information)
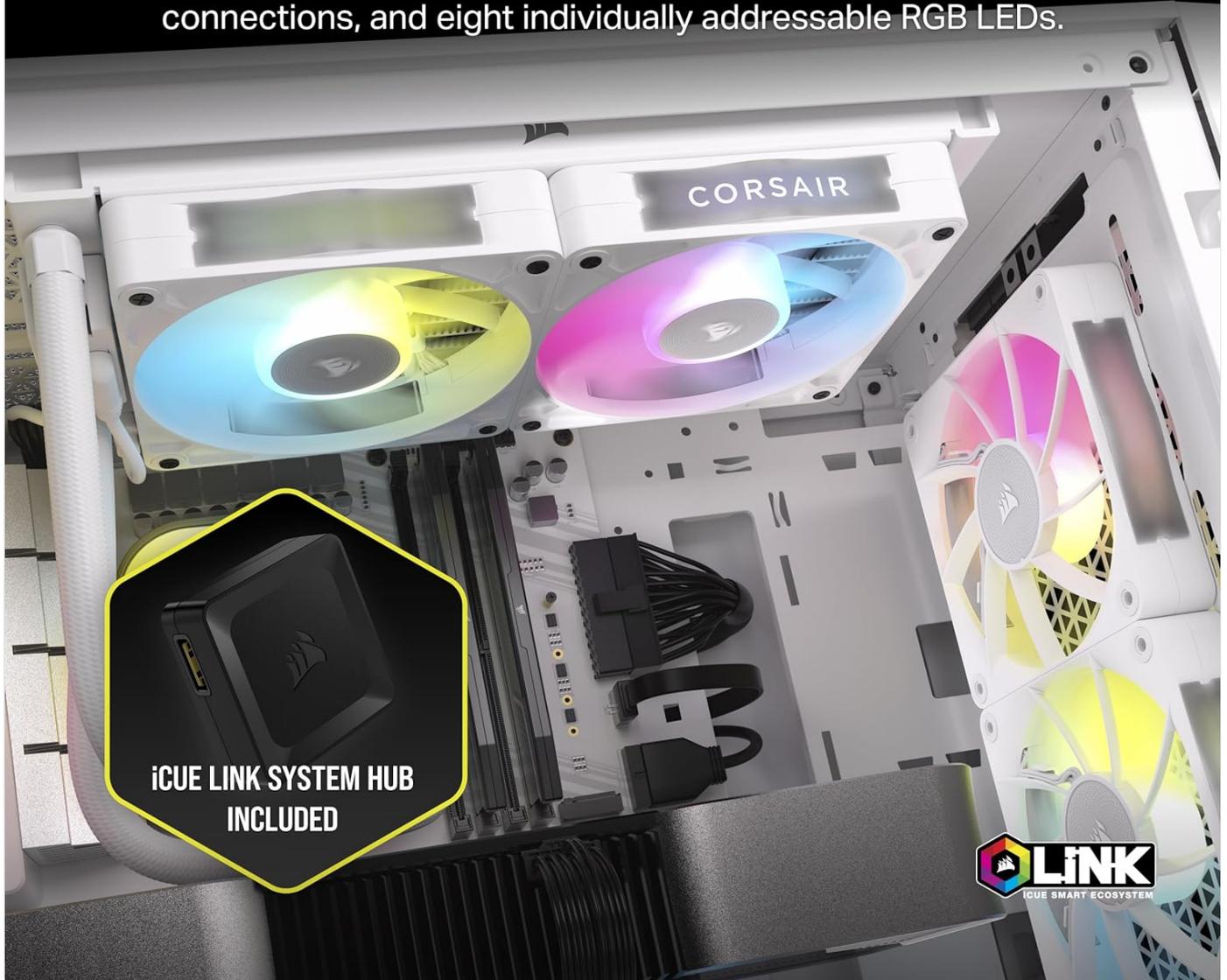

Figure 2: Components included in the iCUE Link RX120 RGB Starter Kit.

Figure 3: Retail packaging of the CORSAIR iCUE Link RX120 RGB Starter Kit.

SETUP

1. Physical Installation

1. **Mounting Fans:** Securely attach the RX120 RGB fans to your PC case or radiator using the provided mounting screws. Ensure proper airflow direction for optimal cooling.

2. **iCUE Link Connection:** Connect the fans to each other using the included iCUE Link bridge connectors. This allows for a simplified daisy-chain setup, reducing cable clutter. Connect the last fan in the chain to the iCUE Link System Hub using a single iCUE Link cable.

3. **System Hub Connection:** Connect the iCUE Link System Hub to your motherboard via a USB 2.0 header and to your power supply via a SATA power connector.

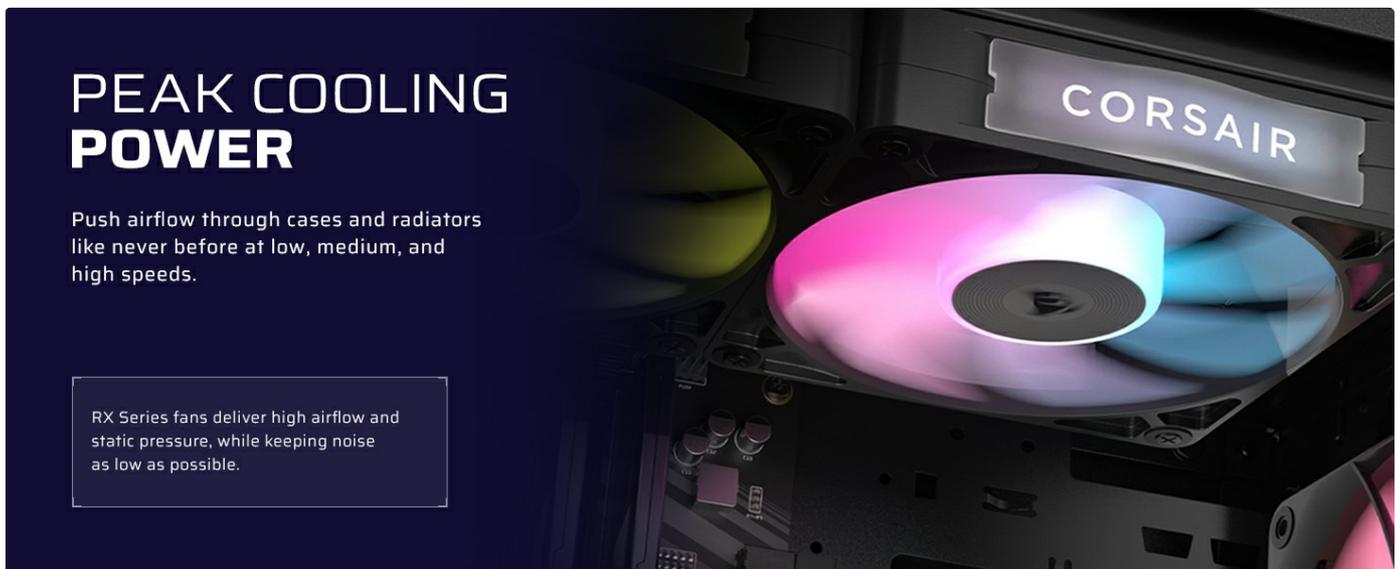Figure 4: Simplified iCUE Link daisy-chain connection for multiple fans.

Figure 5: The iCUE Link System Hub for centralized control.

2. Software Setup

Download and install the latest version of CORSAIR iCUE software from the official CORSAIR website (www.corsair.com/icue). The iCUE software allows you to control fan speeds, monitor temperatures, and customize RGB lighting effects.

Video 1: A review demonstrating the installation and RGB features of the iCUE RX120 fans.

OPERATING INSTRUCTIONS

1. Fan Speed Control (PWM)

The RX120 RGB fans support PWM (Pulse-Width Modulation) control, allowing for precise adjustment of fan speeds up to 2,100 RPM. This can be configured through the CORSAIR iCUE software to balance cooling performance and noise levels. The fans also feature a Zero RPM mode for virtual silence at low loads.

Figure 6: Fan features including PWM control, AirGuide Technology, and Zero RPM mode.

2. RGB Lighting Customization

Each RX120 RGB fan is equipped with eight individually addressable RGB LEDs, allowing for extensive customization of lighting effects. Use the CORSAIR iCUE software to select from various lighting presets, create custom patterns, and synchronize lighting with other iCUE-compatible components. The fans also feature a built-in side window and detachable decorative side plates for enhanced visual appeal and customization.

VIVID RGB LIGHTING

Express your creativity with eight RGB LEDs per fan, fully customizable in iCUE software and synchronized with the rest of your setup.
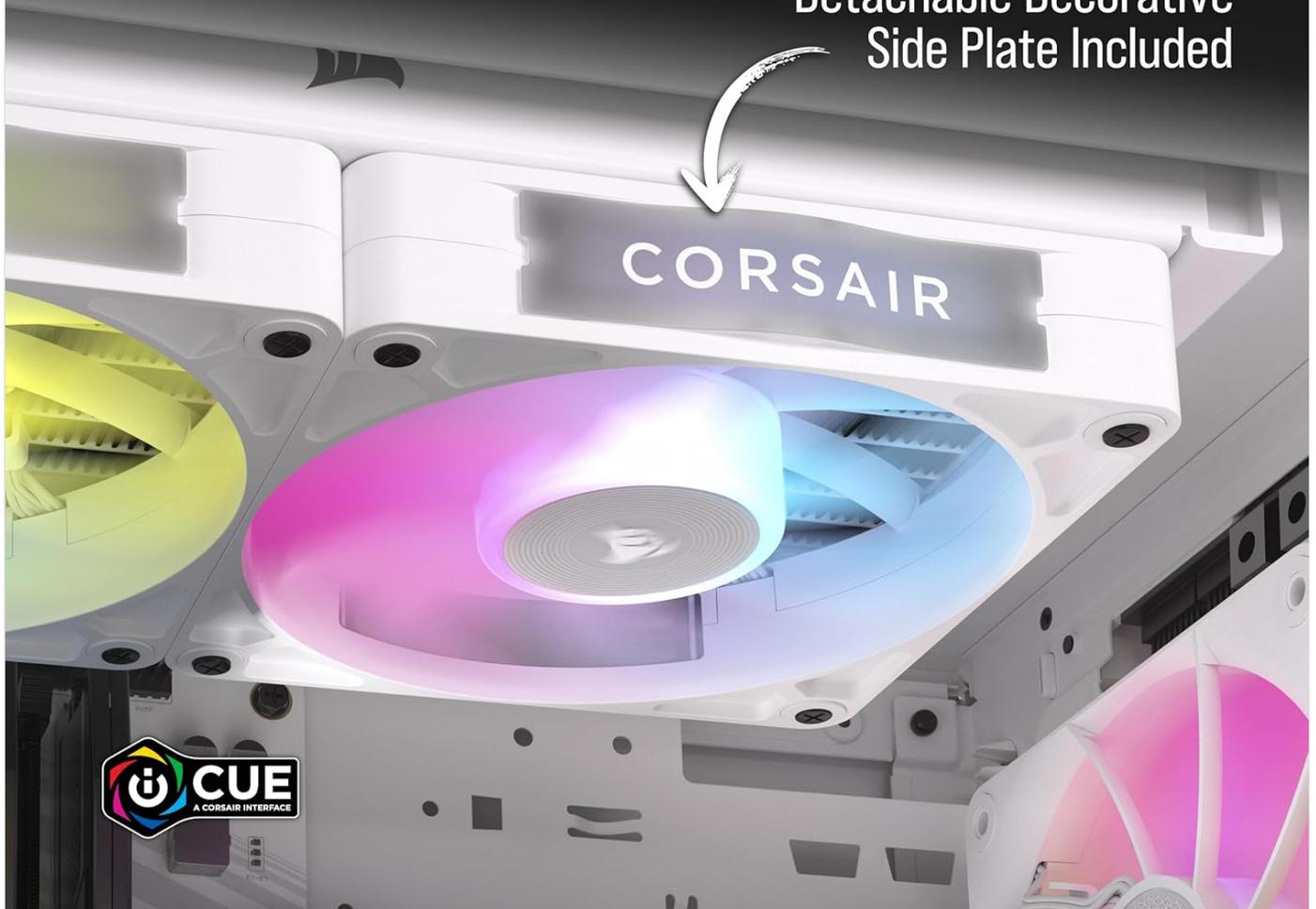
Detachable Decorative
Side Plate Included

CORSAIR

iCUE
A CORSAIR INTERFACE

Figure 7: Customizable RGB lighting and detachable side plates.
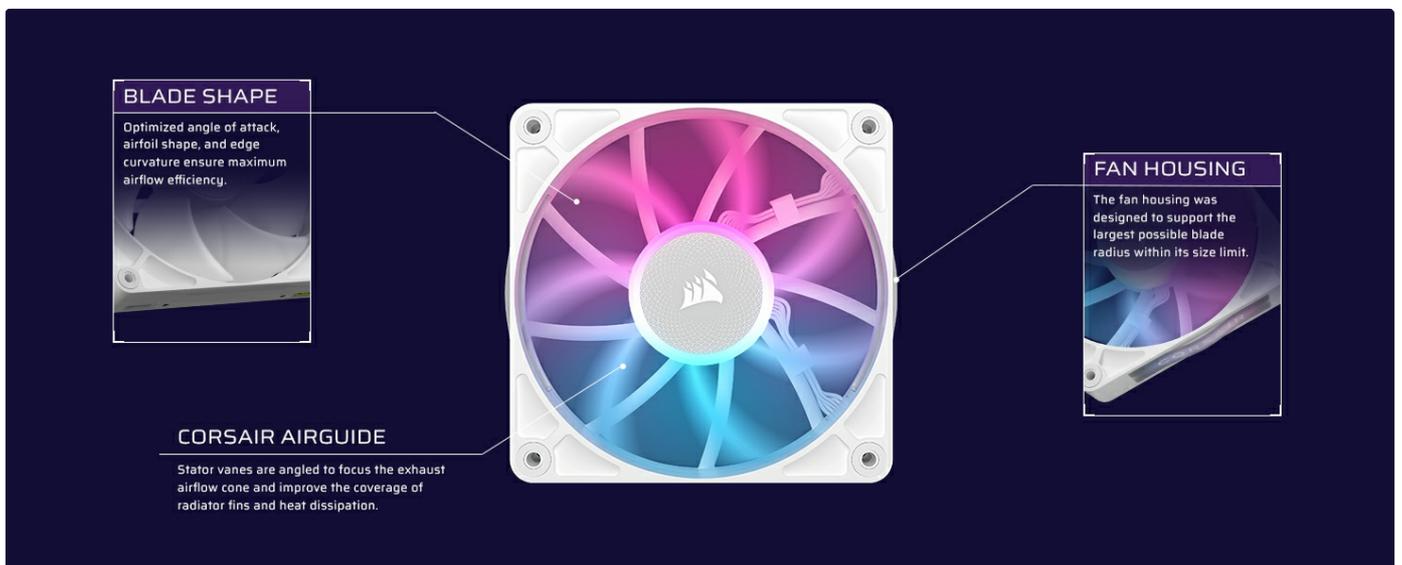
BLADE SHAPE

Optimized angle of attack, airfoil shape, and edge curvature ensure maximum airflow efficiency.

FAN HOUSING

The fan housing was designed to support the largest possible blade radius within its size limit.

CORSAIR AIRGUIDE

Stator vanes are angled to focus the exhaust airflow cone and improve the coverage of radiator fins and heat dissipation.

MAINTENANCE

To ensure optimal performance and longevity of your CORSAIR iCUE Link RX120 RGB fans, regular maintenance is recommended:

- **Cleaning:** Periodically clean the fan blades and frame to remove dust buildup. Use a soft brush or compressed air. Ensure the system is powered off before cleaning.
- **Bearing Care:** The Magnetic Dome bearings are designed for high longevity and low noise, requiring no user maintenance. Avoid disassembling the fan.

QUIET OPERATION

CORSAIR Magnetic Dome bearings generate almost no friction, resulting in minimal fan noise.

Figure 9: Magnetic Dome Bearing technology for durability and quiet operation.

Figure 10: Close-up of the Magnetic Dome Bearing.

TROUBLESHOOTING

- **Fans Not Spinning:** Ensure the iCUE Link System Hub is correctly connected to both the motherboard USB 2.0 header and the power supply SATA connector. Verify all iCUE Link cables are securely connected between fans and the hub.
- **RGB Lighting Not Working/Incorrect:** Check the iCUE software for proper fan detection and lighting configuration. Ensure the iCUE Link System Hub firmware is up to date. Re-seat all iCUE Link cables.
- **Excessive Noise:** While RX120 fans are designed for quiet operation, ensure they are securely mounted and not vibrating against the case. Check for any obstructions to the fan blades. Adjust fan curves in iCUE software to lower RPMs if noise is a concern.

Video 3: A comparison video between QX120 and RX120 fans, which may offer insights into features and potential differences in behavior.

SPECIFICATIONS

Feature	Specification
Brand	Corsair
Model	RX120 RGB
Fan Size	120mm
Fan Type	PWM Controlled
Max Rotational Speed	2100 RPM
Air Flow Capacity	74.2 CFM
Static Pressure	4.38 mm-H2O
Noise Level	36 Decibels (Max)
Bearing Type	Magnetic Dome Bearing
RGB Lighting	8 Individually Addressable LEDs
Connectivity	iCUE Link System

Power Connector	4-Pin (via iCUE Link Hub)
Voltage	12 Volts
Wattage	7.92 watts
Material	Copper (likely referring to internal components)

Figure 11: Optimized blade shape and fan housing for maximum airflow efficiency.

Figure 12: CORSAIR AirGuide Technology with anti-vortex vanes.

WARRANTY AND SUPPORT

Warranty Information

The CORSAIR iCUE Link RX120 RGB fans come with a **5-Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.

Customer Support

For further assistance, technical support, or warranty inquiries, please visit the official CORSAIR support website or contact their customer service:

- **CORSAIR Support Website:** www.corsair.com/support
- **iCUE Software Download:** www.corsair.com/icue