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› Cooler Master Hyper 103 Essential CPU Air Cooler User Manual

Cooler Master RR-H103-22PB-R1

Cooler Master Hyper 103 Essential CPU Air Cooler

Model: RR-H103-22PB-R1

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Cooler Master Hyper 103 Essential CPU Air Cooler. Please read this guide thoroughly before proceeding with installation to ensure optimal performance and longevity of your product. The Hyper 103 is designed to provide efficient cooling for a wide range of Intel and AMD processors, featuring a 92mm blue LED fan and direct contact heat pipes.

PACKAGE CONTENTS

- Cooler Master Hyper 103 CPU Cooler (Heatsink with pre-attached 92mm fan)
- Mounting Hardware for Intel Sockets
- Mounting Hardware for AMD Sockets
- Thermal Paste
- User Manual (this document)

COMPATIBILITY

The Cooler Master Hyper 103 Essential CPU Air Cooler is compatible with the following CPU sockets:

- **Intel:** LGA 2011, 1366, 1156, 1155, 1150, 775
- **AMD:** FM2, FM1, AM3+, AM3, AM2

This cooler is designed for desktop computer systems. Please ensure your PC case has adequate clearance for the cooler's dimensions (10.8 x 8.95 x 13.85 cm) before installation.

SETUP AND INSTALLATION

Proper installation is crucial for effective cooling. Follow these general steps. Refer to the detailed diagrams in the included physical manual for specific socket instructions.

1. **Prepare the Motherboard:** Depending on your CPU socket (Intel or AMD), attach the appropriate backplate to the rear of your motherboard. Secure it with the provided standoffs.
2. **Prepare the CPU:** Ensure your CPU is clean and free of old thermal paste. Apply a small amount of the included thermal paste to the center of the CPU's integrated heat spreader (IHS). A pea-sized dot is generally sufficient.

3. **Mount the Cooler:** Carefully place the heatsink onto the CPU, aligning the mounting holes with the standoffs. Secure the heatsink using the provided screws, tightening them in a diagonal pattern until snug. Do not overtighten.
4. **Connect the Fan:** Locate the 4-pin CPU_FAN header on your motherboard. Connect the cooler's 4-pin fan cable to this header. Ensure the fan is oriented to exhaust air towards the rear or top of your PC case for optimal airflow.
5. **Final Checks:** Double-check all connections and ensure the cooler is securely mounted. Verify that no cables are obstructing the fan blades.



Image: The Cooler Master Hyper 103 Essential CPU Air Cooler, featuring a heatsink with copper heat pipes and a blue LED fan, designed for efficient processor cooling.

OPERATING INSTRUCTIONS

The Cooler Master Hyper 103 operates automatically based on your motherboard's fan control settings. The 4-pin connector allows for Pulse Width Modulation (PWM) control, enabling the motherboard to adjust the fan speed according to the CPU temperature.

- **Fan Speed:** The fan operates within a speed range of 800 to 2200 RPM.
- **Noise Level:** The typical noise level is rated at 30 dB, varying with fan speed.
- **Power Consumption:** The fan consumes approximately 1.8 watts of power.

For optimal performance, ensure your motherboard's BIOS/UEFI settings are configured to utilize PWM fan control for the CPU fan header.

MAINTENANCE

Regular maintenance helps ensure the longevity and efficiency of your CPU cooler.

- **Dust Removal:** Periodically clean dust from the heatsink fins and fan blades using compressed air or a soft brush. Ensure the system is powered off before cleaning.
- **Fan Inspection:** Check the fan for any obstructions or unusual noises. If the fan is not spinning or making excessive noise, it may require replacement.
- **Thermal Paste:** Over time, thermal paste can dry out. If you notice increased CPU temperatures, consider reapplying fresh thermal paste. This typically involves removing the cooler, cleaning off old paste from both the CPU and heatsink, and applying new paste.

TROUBLESHOOTING

If you encounter issues with your CPU cooler, consider the following:

- **High CPU Temperatures:**
 - Verify the cooler is securely mounted and making good contact with the CPU.
 - Check if the thermal paste application was sufficient and evenly spread. Reapply if necessary.
 - Ensure the fan is spinning correctly and not obstructed by cables.
 - Clean any dust accumulation on the heatsink and fan.
 - Check your PC case's overall airflow.
- **Excessive Fan Noise:**
 - Ensure the fan is not hitting any cables or components.
 - Clean dust from the fan blades.
 - Check motherboard BIOS/UEFI settings for fan speed control. Adjust fan curves if available.
- **Fan Not Spinning:**
 - Verify the 4-pin fan connector is securely plugged into the CPU_FAN header on the motherboard.
 - Check motherboard BIOS/UEFI settings to ensure the CPU fan header is enabled and configured correctly.

SPECIFICATIONS

Feature	Specification
Model Number	RR-H103-22PB-R1
Brand	Cooler Master
CPU Socket Compatibility	Intel LGA 2011, 1366, 1156, 1155, 1150, 775; AMD FM2, FM1, AM3+, AM3, AM2
Cooling Method	Air
Material	Aluminium (Heatsink)
Fan Dimensions	92mm (Diameter) x 25mm (Width)
Fan Speed	800 - 2200 RPM
Airflow	26.7 - 73.2 cubic meters/hour
Noise Level	17 - 30 dBA

Feature	Specification
Bearing Type	Long life sleeve bearing
Power Connector	4-pin (PWM)
Voltage	12 Volts
Power Consumption	1.8 Watts
Product Dimensions (LxWxH)	8.95 x 10.8 x 13.85 cm
Item Weight	770 g
Life Expectancy	40,000 hours

WARRANTY AND SUPPORT

The Cooler Master Hyper 103 Essential CPU Air Cooler comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use. For technical support, warranty claims, or further assistance, please visit the official Cooler Master website or contact their customer service department. Keep your proof of purchase for warranty validation.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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