

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Cooler Master](#) /
- › [Cooler Master Hyper 622 Halo CPU Air Cooler User Manual](#)

Cooler Master RR-D6WW-20PA-R1

Cooler Master Hyper 622 Halo CPU Air Cooler User Manual

Model: RR-D6WW-20PA-R1

1. INTRODUCTION

The Cooler Master Hyper 622 Halo is a high-performance CPU air cooler engineered to provide efficient thermal management for your computer's processor. Featuring a dual-tower heatsink design, six direct-contact copper heat pipes, and two ARGB-enabled Halo2 fans, it delivers robust cooling while maintaining a quiet operation. This manual provides essential information for the proper installation, operation, and maintenance of your Hyper 622 Halo cooler.

2. PACKAGE CONTENTS

Please verify that all components are present before beginning installation. If any items are missing or damaged, contact Cooler Master support.

- Hyper 622 Halo Dual Tower Heatsink
- 2 x MF120 Halo2 ARGB Fans
- Intel Mounting Brackets (LGA1700, 1200, 1151, 1150, 1155, 1156)
- AMD Mounting Brackets (AM5, AM4)
- Backplate (for Intel sockets)
- Fan Clips
- Thermal Paste
- Installation Hardware (screws, standoffs, nuts)

3. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to your system:

- Always disconnect power from your computer before installation or maintenance.
- Handle components with care to avoid bending pins or damaging circuits.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components.
- Keep out of reach of children.
- Do not attempt to disassemble the heatsink or fans beyond what is described in this manual.

4. SETUP AND INSTALLATION

The Hyper 622 Halo includes redesigned brackets for simplified installation on both Intel and AMD platforms.

4.1. Preparation

1. Ensure your motherboard is compatible with the cooler's dimensions and mounting requirements.
2. Clean the CPU surface thoroughly, removing any old thermal paste with isopropyl alcohol.
3. Identify the correct mounting hardware for your CPU socket (Intel LGA1700/1200/115x or AMD AM5/AM4).

4.2. Installation Steps (General)

1. Attach the appropriate backplate (for Intel) or standoffs (for AMD) to your motherboard.
2. Secure the mounting brackets to the standoffs/backplate.
3. Apply a small amount of thermal paste to the center of your CPU's integrated heat spreader (IHS).
4. Carefully place the heatsink onto the CPU, aligning the mounting holes.
5. Secure the heatsink to the mounting brackets using the provided screws, tightening them in a diagonal pattern until snug.
6. Attach the two MF120 Halo2 fans to the heatsink using the fan clips. Ensure proper airflow direction (typically blowing towards the rear of the case).
7. Connect the 4-pin PWM fan cables to your motherboard's CPU_FAN headers.
8. Connect the 3-pin ARGB cables to your motherboard's ARGB header. The ARGB Gen 2 fans feature auto-detection.



Figure 1: Side view of the Hyper 622 Halo heatsink, illustrating the dual-tower design and copper heat pipes.



Figure 2: Front view of the Hyper 622 Halo with its dual ARGB fans, showcasing the polished white aluminum top cover and illuminated fan rings.

5. OPERATING INSTRUCTIONS

Once installed, the Cooler Master Hyper 622 Halo operates automatically based on your motherboard's fan control settings.

5.1. Fan Operation

The two MF120 Halo2 fans are PWM (Pulse Width Modulation) controlled, allowing your motherboard to dynamically adjust their speed based on CPU temperature. This ensures optimal cooling performance while minimizing noise. The fans operate within a speed range of 600-2050 RPM ($\pm 10\%$).

5.2. ARGB Lighting Control

The ARGB Gen 2 fans provide customizable lighting effects. Connect the 3-pin ARGB cable to a compatible motherboard header. Lighting can typically be controlled via your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic

Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync). The ARGB auto-detection feature simplifies setup.

6. MAINTENANCE

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

- **Dust Cleaning:** Periodically (every 3-6 months, or more frequently in dusty environments) use compressed air to blow dust out of the heatsink fins and fan blades. Ensure the fans do not spin rapidly during cleaning to prevent damage to bearings.
- **Thermal Paste:** The thermal paste applied between the CPU and heatsink should be replaced every 2-3 years, or whenever the cooler is removed from the CPU. Use a high-quality thermal compound for best results.
- **Fan Inspection:** Check fan cables for secure connections and ensure no cables are obstructing fan blades.

7. TROUBLESHOOTING

If you encounter issues with your Hyper 622 Halo, refer to the following common problems and solutions:

- **High CPU Temperatures:**
 - Ensure the heatsink is securely mounted and making full contact with the CPU.
 - Verify that thermal paste was applied correctly and is not dried out.
 - Check that fan cables are properly connected to the CPU_FAN header and fans are spinning.
 - Ensure proper airflow within your PC case.
- **Fans Not Spinning or Spinning Slowly:**
 - Check fan cable connections to the motherboard.
 - Verify fan control settings in your motherboard's BIOS/UEFI.
 - Ensure sufficient power is supplied to the fan headers.
- **ARGB Lighting Not Working:**
 - Confirm the 3-pin ARGB cable is connected to a compatible 5V ARGB header (not 12V RGB).
 - Check your motherboard's ARGB software for proper configuration.
 - Ensure the ARGB header is enabled in BIOS/UEFI if applicable.
- **Excessive Fan Noise:**
 - Check for dust buildup on fan blades or heatsink fins.
 - Ensure no cables are touching the fan blades.
 - Adjust fan curves in your motherboard's BIOS/UEFI to reduce fan speed at lower temperatures.

8. SPECIFICATIONS

Feature	Specification
Model Number	RR-D6WW-20PA-R1
Product Dimensions (L x W x H)	4.92" x 5.39" x 6.18" (125 x 137 x 157 mm)
Weight	2.8 Pounds (1.27 kg)

Heat Pipes	6 x Ø6mm Copper Heat Pipes (Direct Contact)
Heatsink Material	Aluminum Fins, Copper Heat Pipes
Fan Type	MF120 Halo2 ARGB Fan
Fan Quantity	2
Fan Speed	600-2050 RPM (±10%)
Fan Airflow	51.88 CFM
Fan Air Pressure	2.89 mmH2O
Fan Noise Level	27 dBA (Max)
Fan Power Connector	4-Pin PWM
Fan ARGB Connector	3-Pin ARGB
Compatible Sockets	Intel: LGA1700, 1200, 1151, 1150, 1155, 1156 AMD: AM5, AM4

9. WARRANTY AND SUPPORT

Cooler Master products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the official Cooler Master website or the warranty card included with your product. Keep your purchase receipt as proof of purchase.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the official Cooler Master support website or contact their customer service department. Contact information can typically be found on the Cooler Master website.

Manufacturer: Cooler Master