

## Jonsbo HP600

# JONSBO HP600 Black Low Profile CPU Air Cooler Instruction Manual

MODEL: HP600

## 1. Introduction

The JONSBO HP600 is a high-performance, low-profile CPU air cooler designed for compact PC builds and systems with limited space. Featuring a 120mm PWM fan and 6 copper heat pipes, it provides efficient heat dissipation for various Intel and AMD platforms. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your cooler.



Image 1.1: Overview of the JONSBO HP600 Black Low Profile CPU Air Cooler.

## 2. Package Contents

Please verify that all components are present in the package:

- JONSBO HP600 CPU Cooler (Fan, Radiating pipe, Aluminum cooling fin)
- Mounting hardware for Intel LGA1700/1200/115X sockets
- Mounting hardware for AMD AM4/AM5 sockets
- Thermal compound tube
- User Manual (this document)

### 3. Specifications

Feature	Specification
Model	HP600 Black
Dimensions (L x W x H)	120mm x 120mm x 66mm
Fan Size	120mm x 120mm x 15mm
Fan Speed	800-1800 RPM (±10%)
Fan Air Flow	23.46-61.51 CFM
Fan Noise Level	18.3-37.2 dB(A) (MAX)
Power Connector	4-Pin PWM
Rated TDP	210W
Heat Pipes	6 Copper Heat Pipes
Cooling Method	Air Cooling (Fan, Radiating Pipe, Aluminum Fins)
Compatible Sockets	Intel LGA1700/1200/115X, AMD AM4/AM5

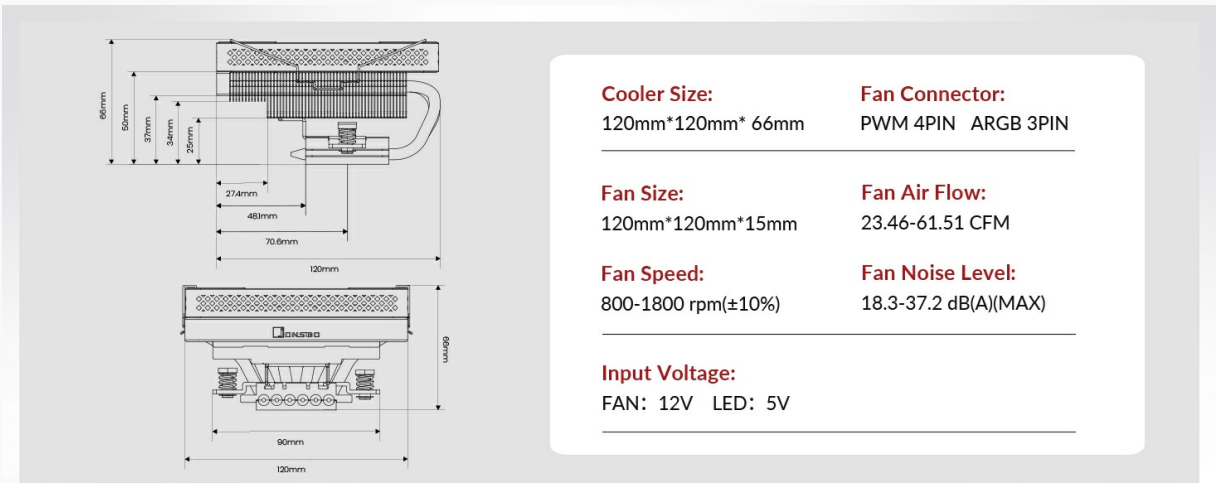


Image 3.1: Detailed dimensions and fan specifications of the HP600 cooler.

### 4. Setup and Installation

Before beginning installation, ensure your system is powered off and unplugged. Refer to your motherboard manual for specific instructions on CPU and cooler installation if needed.

#### 4.1 General Preparation

- Clean CPU Surface:** Ensure the CPU surface is clean and free of any old thermal paste or debris. Use isopropyl alcohol if necessary.
- Apply Thermal Compound:** Apply a small, pea-sized amount of the provided thermal compound to the center of the CPU's integrated heat spreader (IHS). Do not spread it manually; the pressure from the cooler will distribute it evenly.

## 4.2 Intel LGA1700/1200/115X Installation

1. **Install Backplate:** Place the Intel backplate on the rear side of the motherboard, aligning the holes with the CPU socket mounting holes.
2. **Attach Standoffs:** From the front side of the motherboard, screw the appropriate Intel standoffs into the backplate.
3. **Secure Mounting Brackets:** Place the Intel mounting brackets onto the standoffs and secure them with the provided nuts.
4. **Position Cooler:** Carefully place the HP600 cooler onto the CPU, ensuring the base makes full contact with the thermal compound.
5. **Secure Cooler:** Use the included screws to fasten the cooler to the mounting brackets. Tighten screws in a diagonal pattern until snug, but do not overtighten.

## 4.3 AMD AM4/AM5 Installation

1. **Retain Stock Backplate:** For AMD platforms, typically the motherboard's stock backplate is used. Remove the plastic retention clips if present.
2. **Attach Standoffs:** Screw the appropriate AMD standoffs into the stock backplate's mounting holes from the front side of the motherboard.
3. **Secure Mounting Brackets:** Place the AMD mounting brackets onto the standoffs and secure them with the provided nuts.
4. **Position Cooler:** Carefully place the HP600 cooler onto the CPU, ensuring the base makes full contact with the thermal compound.
5. **Secure Cooler:** Use the included screws to fasten the cooler to the mounting brackets. Tighten screws in a diagonal pattern until snug, but do not overtighten.

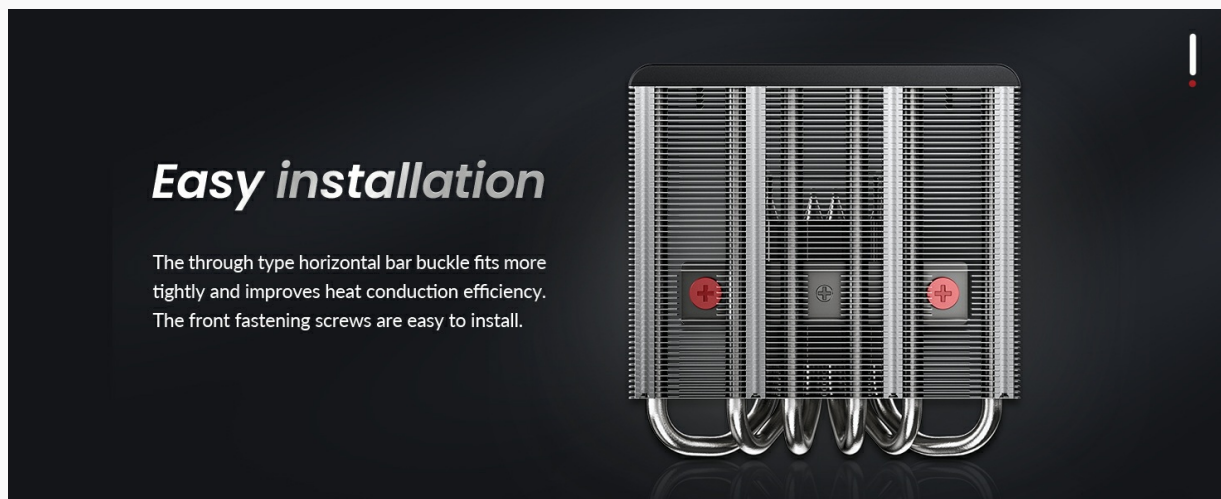
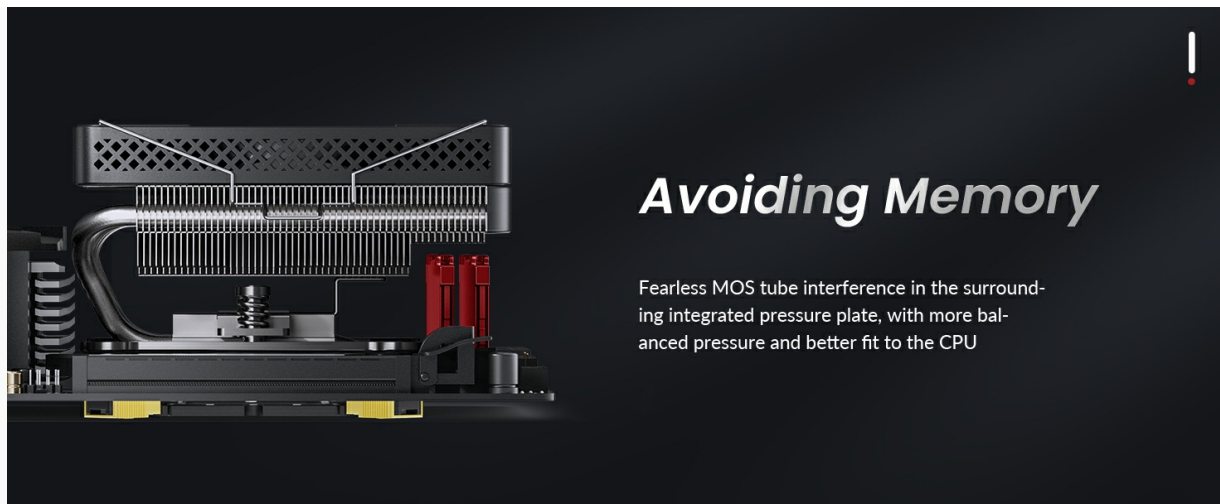


Image 4.1: The HP600 features front fastening screws for simplified installation.



## Avoiding Memory

Fearless MOS tube interference in the surrounding integrated pressure plate, with more balanced pressure and better fit to the CPU

Image 4.2: The cooler's design aims to avoid interference with memory modules.

### 4.4 Fan Connection

Connect the 4-pin PWM fan cable from the HP600 cooler to the CPU\_FAN header on your motherboard. This allows the motherboard to control the fan speed based on CPU temperature, optimizing cooling performance and noise levels.

## 5. Operation

The JONSBO HP600 utilizes a PWM (Pulse Width Modulation) fan, which allows for dynamic speed control. Once connected to the CPU\_FAN header, your motherboard's BIOS/UEFI or operating system software will automatically adjust the fan speed based on the CPU's temperature. This ensures efficient cooling during high loads and quiet operation during idle or light tasks.

For advanced users, fan curves can be customized within the motherboard's BIOS/UEFI settings to fine-tune the balance between cooling performance and noise according to personal preference.

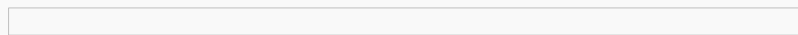


Image 5.1: The 120mm PWM fan provides efficient heat dissipation and temperature control.

## 6. Maintenance

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

- **Dust Cleaning:** Periodically inspect the fan and heatsink fins for dust accumulation. Use compressed air or a soft brush to gently remove dust. Ensure the fan blades are held stationary while cleaning with compressed air to prevent damage.
- **Thermal Paste Reapplication:** Over time, thermal paste can dry out, reducing its effectiveness. It is recommended to reapply thermal paste every 2-3 years, or if you remove the cooler for any reason.
- **Fan Inspection:** Check the fan for any unusual noises or wobbling. If the fan becomes excessively noisy or stops spinning, it may need replacement. The 120mm fan is designed for easy replacement.

## 7. Troubleshooting

If you encounter issues with your JONSBO HP600 cooler, consider the following:

- **High CPU Temperatures:**

- Ensure the cooler is securely mounted and making full contact with the CPU.
  - Verify that thermal paste was applied correctly and is not dried out.
  - Check if the fan is spinning. If not, ensure it is properly connected to the CPU\_FAN header.
  - Clean any dust accumulation from the heatsink fins and fan blades.
- **Excessive Fan Noise:**
    - Check for dust buildup on the fan blades.
    - Ensure no cables are obstructing the fan's rotation.
    - Adjust fan speed settings in your motherboard's BIOS/UEFI.
  - **Installation Difficulties (e.g., RAM Clearance):**
    - The HP600 is designed to minimize RAM interference, but some tall RAM modules may still pose a challenge. Verify compatibility with your specific RAM before installation.

If problems persist, please contact JONSBO customer support for further assistance.

## 8. Warranty and Support

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JONSBO products are manufactured to high-quality standards. For warranty information and technical support, please refer to the official JONSBO website or contact your local retailer. Keep your proof of purchase for warranty claims.

For additional resources and product information, visit the [Jonsbo Store on Amazon](#).