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## Thermalright PA120 SE

# Thermalright Peerless Assassin 120 SE CPU Cooler Instruction Manual

Model: PA120 SE

## 1. OVERVIEW

The Thermalright Peerless Assassin 120 SE is a high-performance CPU air cooler designed for efficient heat dissipation. It features a dual-tower heatsink design with six heat pipes and two 120mm PWM fans, ensuring optimal cooling for various CPU platforms.

### Key Features:

- Dual-Tower Heatsink:** Provides a large surface area for heat exchange.
- 6 Heat Pipes:** Six 6mm heat pipes with AGHP (Anti-Gravity Heat Pipe) technology ensure efficient heat transfer regardless of mounting orientation.
- Dual 120mm PWM Fans:** Two TL-C12C fans operate at up to 1550 RPM, offering a balance of airflow and low noise.
- Wide Compatibility:** Supports Intel LGA 115X/1200/1700/17XX/1851 and AMD AM4/AM5 sockets.
- Aluminum Fins & Copper Base:** Constructed with aluminum fins and a pure copper base for superior thermal conductivity.

## 2. PRODUCT SPECIFICATIONS

Feature	Specification
CPU Cooler Dimensions (L x W x H)	125mm x 135mm x 155mm (4.92"L x 5.31"W x 6.1"H)
Heatsink Material	Aluminum fins, Pure copper heat pipes and base, Nickel Plated
Heat Pipes	6 x 6mm (AGHP Technology)
Fan Model	TL-C12C

Fan Dimensions	120mm x 120mm x 25mm
Fan Speed	1550 RPM $\pm$ 10%
Air Flow Capacity	66.17 CFM (MAX)
Noise Level	$\leq$ 25.6 dB(A)
Power Connector	4-Pin PWM
Voltage	12V DC
Wattage	265 watts
Compatible Sockets	Intel: 115X/1200/1700/17XX/1851, AMD: AM4/AM5

*Note: Please verify case and motherboard compatibility with the cooler's dimensions before installation.*

### 3. SETUP & INSTALLATION

Proper installation is crucial for optimal cooling performance. Follow the steps below carefully for your specific CPU socket type.

#### **AMD AM4/AM5 Installation:**

For AMD AM4/AM5 platforms, utilize the original motherboard's built-in backplate. Remove any existing plastic brackets from around the CPU socket. Install the provided plastic standoffs and metal brackets, securing them with the appropriate screws. Apply thermal compound to the CPU IHS before mounting the heatsink.

*Video: Thermalright PA120 Air Cooler series installation tutorial for AMD AM4/AM5 sockets.*

#### **Intel LGA 115X/1200/1700/17XX/1851 Installation:**

For Intel LGA platforms, remove any double-sided tape from the provided backplate and adhere it to the back of the motherboard. Install the plastic standoffs and metal brackets, securing them with the appropriate screws. Apply thermal compound to the CPU IHS before mounting the heatsink.

*Video: Thermalright PA120 SE Air Cooler series installation tutorial for Intel LGA sockets.*

#### **Heatsink and Fan Installation:**

After preparing the CPU and mounting brackets, carefully place the heatsink onto the CPU, aligning the

mounting nuts with the screws on the brackets. Tighten both screws evenly with a screwdriver until secure. Install the fan wires onto both fans and then attach the fans to the heatsink using the provided fan clips. Connect the fan Y-cable to the CPU FAN socket on your motherboard.



*Image: The Thermalright Peerless Assassin 120 SE CPU Cooler fully assembled with dual fans.*

# Peerless Assassin 120SE DIMENSION

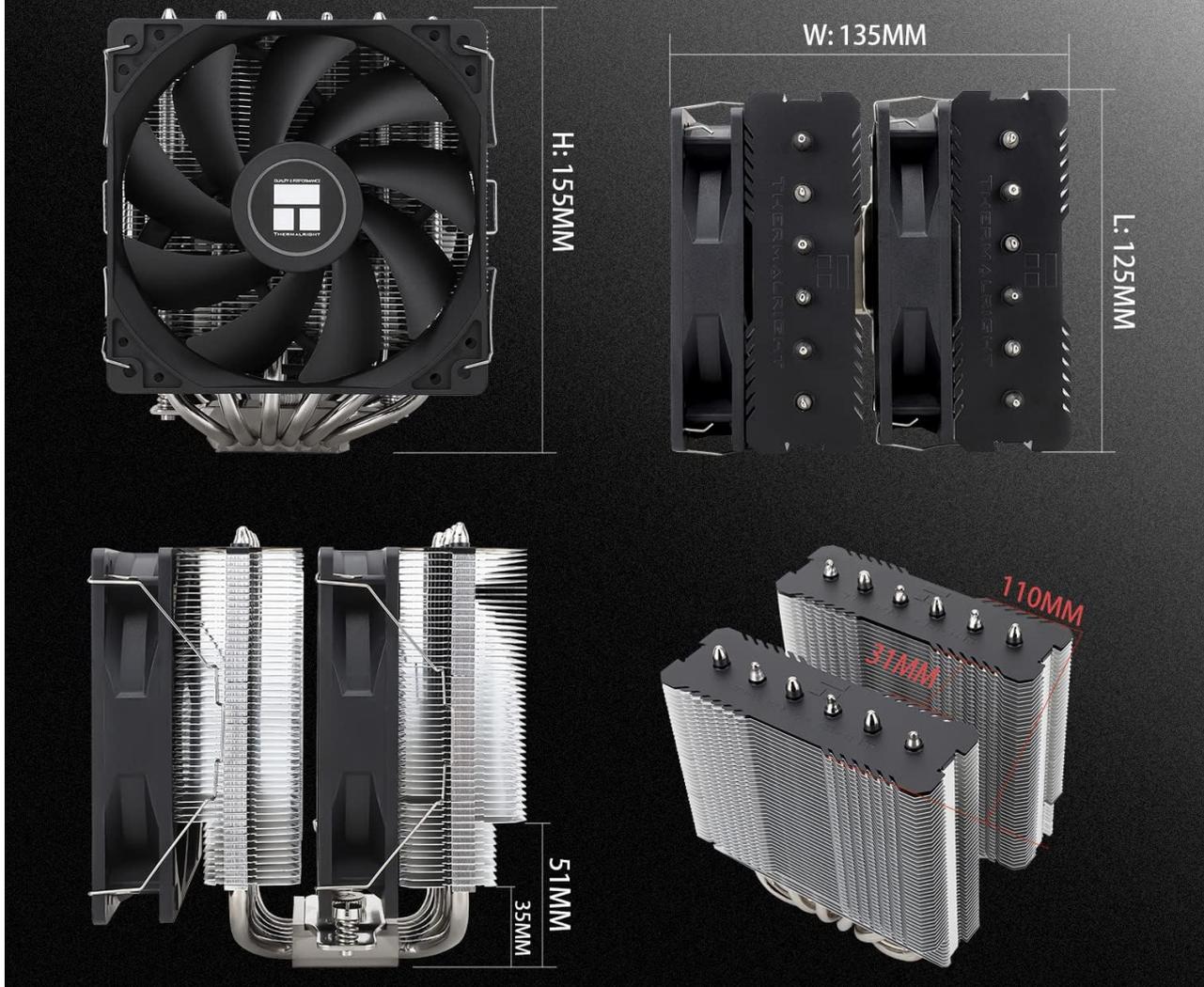


Image: Detailed dimensions of the Peerless Assassin 120 SE cooler.

## 4. OPERATING INSTRUCTIONS

The Thermalright Peerless Assassin 120 SE CPU Cooler operates automatically via the motherboard's PWM (Pulse Width Modulation) fan control. This allows the fan speed to adjust dynamically based on CPU temperature, providing efficient cooling when needed and quieter operation during lighter loads.

- **Automatic Fan Control:** Ensure the fan Y-cable is connected to the CPU\_FAN header on your motherboard for automatic speed regulation.
- **BIOS/UEFI Settings:** You can fine-tune fan curves and temperature thresholds through your motherboard's BIOS/UEFI settings for customized performance.

## 5. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean dust from the heatsink fins and fan blades using compressed air or a soft brush. Ensure the fans are not spinning during cleaning.
  - **Thermal Compound:** Reapply thermal compound to the CPU IHS every 2-3 years, or if the cooler is removed and reinstalled.
  - **Fan Inspection:** Check fan cables for secure connections and inspect fan blades for any damage or obstructions.
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## 6. TROUBLESHOOTING

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

- **High CPU Temperatures:**
    - Verify proper installation and contact between the heatsink base and CPU.
    - Ensure sufficient thermal compound application.
    - Check fan operation and ensure they are spinning correctly.
    - Confirm adequate airflow within your PC case.
  - **Excessive Fan Noise:**
    - Check for dust buildup on fan blades or heatsink fins.
    - Ensure fan cables are not obstructing fan rotation.
    - Adjust fan curves in BIOS/UEFI settings to reduce speeds at lower temperatures.
  - **Fans Not Spinning:**
    - Verify the fan Y-cable is securely connected to the CPU\_FAN header on the motherboard.
    - Check motherboard BIOS/UEFI settings for fan control options.
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## 7. WARRANTY AND SUPPORT

Thermalright is a brand with over 20 years of experience in computer accessories. For warranty claims, technical support, or further assistance, please refer to the official Thermalright website or contact their customer service directly. Keep your purchase receipt for warranty validation.

For more information, visit: [www.thermalright.com](http://www.thermalright.com)