

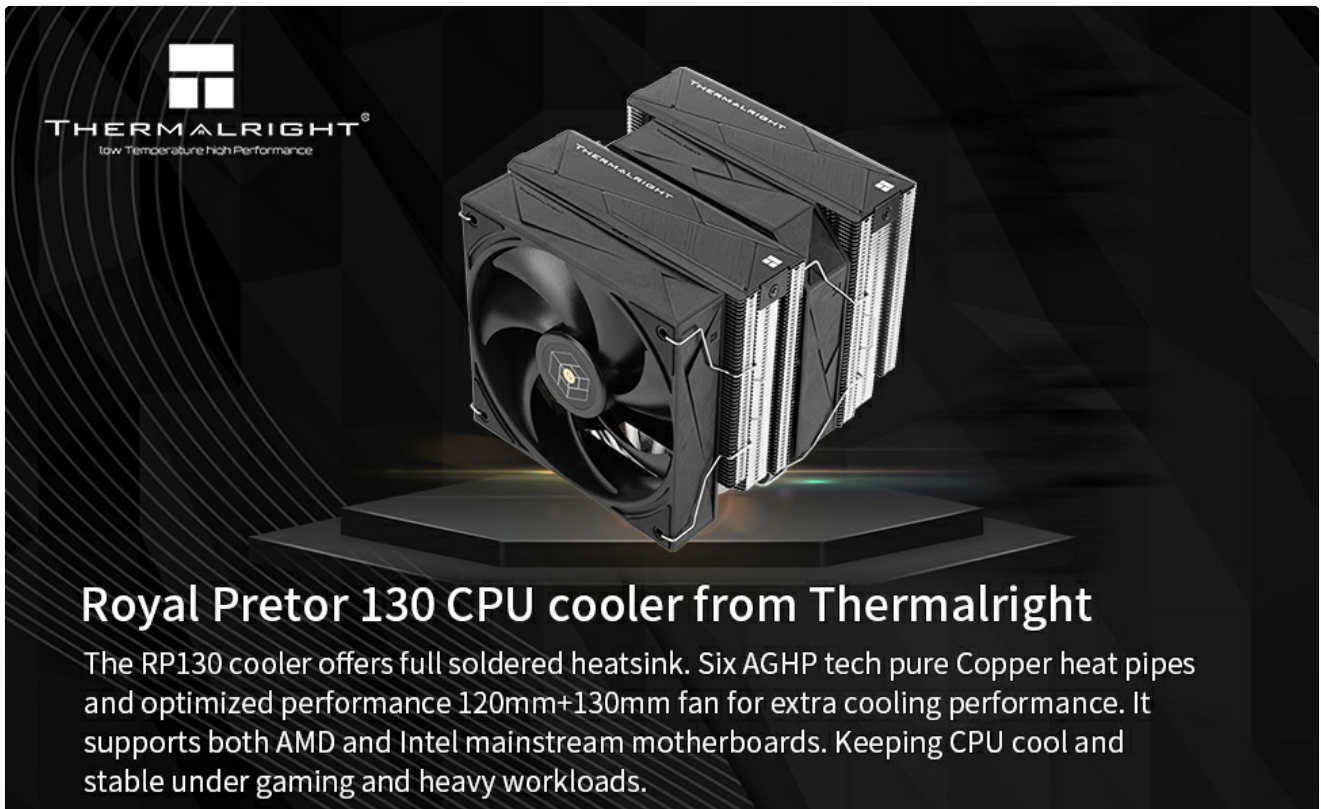
Thermalright RP130

Thermalright Royal Pretor 130 CPU Cooler Instruction Manual

Model: RP130

1. PRODUCT OVERVIEW

The Thermalright Royal Pretor 130 is a high-performance CPU air cooler designed to provide efficient heat dissipation for a wide range of Intel and AMD platforms. Featuring 6x6mm pure copper heat pipes with AGHP 4.0 technology, it ensures consistent performance regardless of installation orientation. The cooler includes dual fans (TL-H12-X28 and TL-HD13-X28) with S-FDB V2.0 bearings for quiet operation and extended lifespan. Its twin-tower radiator design and 158mm height are optimized for compatibility with most PC cases.



Royal Pretor 130 CPU cooler from Thermalright

The RP130 cooler offers full soldered heatsink. Six AGHP tech pure Copper heat pipes and optimized performance 120mm+130mm fan for extra cooling performance. It supports both AMD and Intel mainstream motherboards. Keeping CPU cool and stable under gaming and heavy workloads.

Image 1.1: Overview of the Thermalright Royal Pretor 130 CPU Cooler.

Updated Performance Pure Copper Heatpipes

Unbounded by gravity affecting heat pipe performance, Six AGHP Technology heatpipes offer great CPU cooling in any install directions.

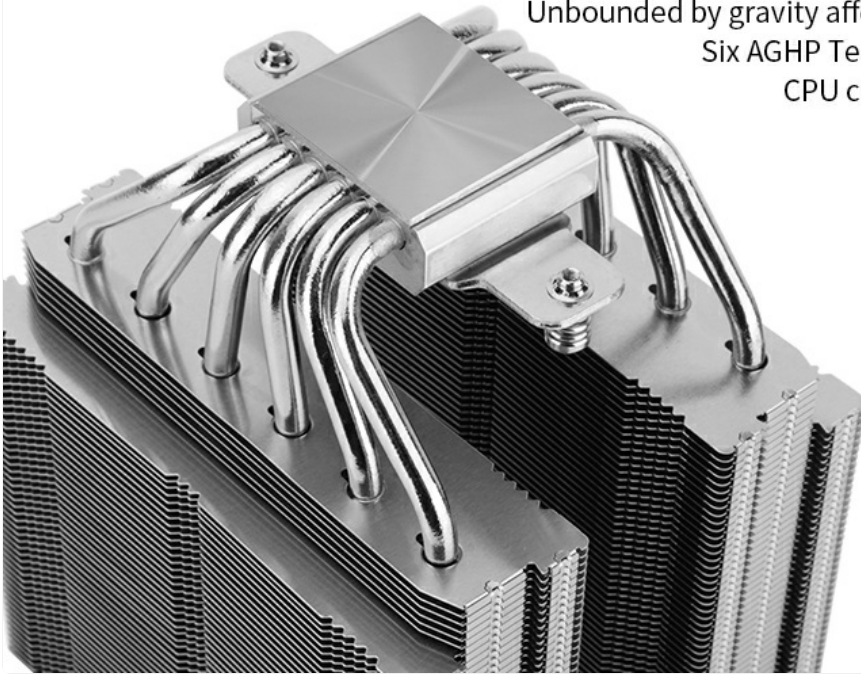


Image 1.2: Close-up of the AGHP (Anti-Gravity Heatpipes) technology, ensuring optimal heat transfer in any orientation.

2. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Thermalright Royal Pretor 130 CPU Air Cooler (Heatsink with pre-installed fans)
- Intel Mounting Bracket (x2)
- AMD Mounting Bracket (x2)
- Thermal Compound
- LGA115X/1200 Metal Standoffs (x4)
- LGA1700 Metal Standoffs (x4)
- LGA2066 Screws (x4)
- Intel Screws (x4)
- AM4/AM5 Screws (x4)
- LGA115X/1700 Backplate
- Fan Y-Cable
- 12cm Fan Clips (x2)
- 13cm Fan Clips (x2)

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Video 2.1: An overview of the components included with the Thermalright Royal Pretor 130 CPU Cooler, as shown in the installation guide.

3. INSTALLATION GUIDE

This section provides detailed instructions for installing your Thermalright Royal Pretor 130 CPU cooler. Please follow the steps carefully for proper installation and optimal performance.

3.1. AMD AM4/AM5 Platform Installation

1. **Remove Motherboard Plastic Brackets:** For AMD AM5 and AM4 motherboards, carefully remove the existing plastic retention brackets from around the CPU socket. Keep the original backplate.
2. **Install Red Spacers:** Place the four red spacers onto the motherboard's CPU mounting holes.
3. **Install Metal Brackets:** Position the two AMD metal brackets over the spacers, aligning the holes. Secure them with the provided AM4/AM5 screws using a screwdriver. Ensure they are tightened evenly.



CPU Compatibility:

INTEL: LGA1851/1700/115X/1200/2011/2066

AMD: AM5/AM4

Image 3.1: The CPU cooler is compatible with Intel LGA1851/1700/115X/1200/2011/2066 and AMD AM5/AM4 platforms.

3.2. Intel LGA1700 Platform Installation

1. **Adjust Backplate:** For Intel LGA1700 motherboards, adjust the backplate mounting hole position to '1700'.
2. **Install Backplate:** Install the backplate from the backside of the motherboard, ensuring the screws pass through the mounting holes.
3. **Install Metal Standoffs:** Install four 1700 metal standoffs onto the backplate screws. Ensure the insulation side of the standoffs faces towards the motherboard.
4. **Install Intel Brackets:** Place the two Intel metal brackets on the metal standoffs. Secure them with the provided Intel

screws using a screwdriver. Tighten evenly.

3.3. Common Procedures (All Platforms)

1. **Apply Thermal Compound:** Apply a small amount of thermal compound (pea-sized dot or thin line) to the center of the CPU's Integrated Heat Spreader (IHS). Spread it evenly if necessary.
2. **Install Heatsink:** Remove the protective sticker from the coldplate of the heatsink. Carefully place the heatsink onto the CPU, aligning the heatsink bracket nuts with the screws on the installed mounting brackets.
3. **Secure Heatsink:** Using a screwdriver, tighten both nuts on the heatsink bracket alternately and gradually to apply even mounting pressure. Do not overtighten.
4. **Install Fans:** Attach the fan clips to the fans (12cm and 13cm). Then, carefully clip the fans onto the heatsink. Ensure the fans are oriented correctly for optimal airflow (typically blowing towards the rear of the case).
5. **Connect Fan Cables:** Connect the 4-pin fan connectors from both fans to the provided Y-cable. Then, connect the Y-cable to the motherboard's CPU_FAN header to synchronize fan speed.



Image 3.2: The cooler features a 100% soldered heatsink and dual 28mm thick fans for efficient cooling.

TL-H12-X28 TL-HD13-X28

120mm+130mm High Performance fan combination



Image 3.3: The cooler utilizes a high-performance 120mm and 130mm fan combination (TL-H12-X28 and TL-HD13-X28).

4. OPERATION

Once installed, the Thermalright Royal Pretor 130 CPU cooler operates automatically, controlled by your motherboard's fan speed settings. Ensure your motherboard's BIOS/UEFI settings are configured to manage CPU fan speeds based on temperature for optimal cooling and noise levels. The dual fans will adjust their rotational speed (up to 2150 RPM) to maintain desired CPU temperatures.

5. MAINTENANCE

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

- **Dust Cleaning:** Periodically (every 3-6 months, depending on environment) use compressed air to remove dust accumulation from the heatsink fins and fan blades. Ensure the fans are not spinning during cleaning to prevent damage to the bearings.
- **Fan Inspection:** Check fan blades for any obstructions or damage. Ensure fan cables are securely connected.

- **Thermal Paste:** The thermal paste typically lasts for several years. If you notice a significant increase in CPU temperatures, consider reapplying fresh thermal compound after carefully cleaning the old paste from the CPU and coldplate.
- **Bearing Note:** The S-FDB V2.0 bearings are designed for long durability and are maintenance-free. Do not attempt to disassemble or lubricate them.

6. TROUBLESHOOTING

If you encounter issues with your Thermalright Royal Pretor 130 CPU cooler, 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 compound was applied correctly and evenly.
 - Check for dust buildup on the heatsink fins and clean if necessary.
 - Confirm that both fans are spinning and connected to the CPU_FAN header.
 - Check BIOS/UEFI settings for proper fan speed control.
- **Fans Not Spinning or Making Unusual Noise:**
 - Ensure fan cables are properly connected to the Y-cable and motherboard.
 - Check for any obstructions preventing fan rotation.
 - Inspect fan blades for damage.
 - If a fan is faulty, contact customer support for assistance.
- **Cooler Not Fitting in Case:**
 - The cooler has an overall height of 158mm. Verify your PC case supports this height.

7. SPECIFICATIONS

Detailed technical specifications for the Thermalright Royal Pretor 130 CPU Cooler:

Royal Pretor 130 DIMENSION

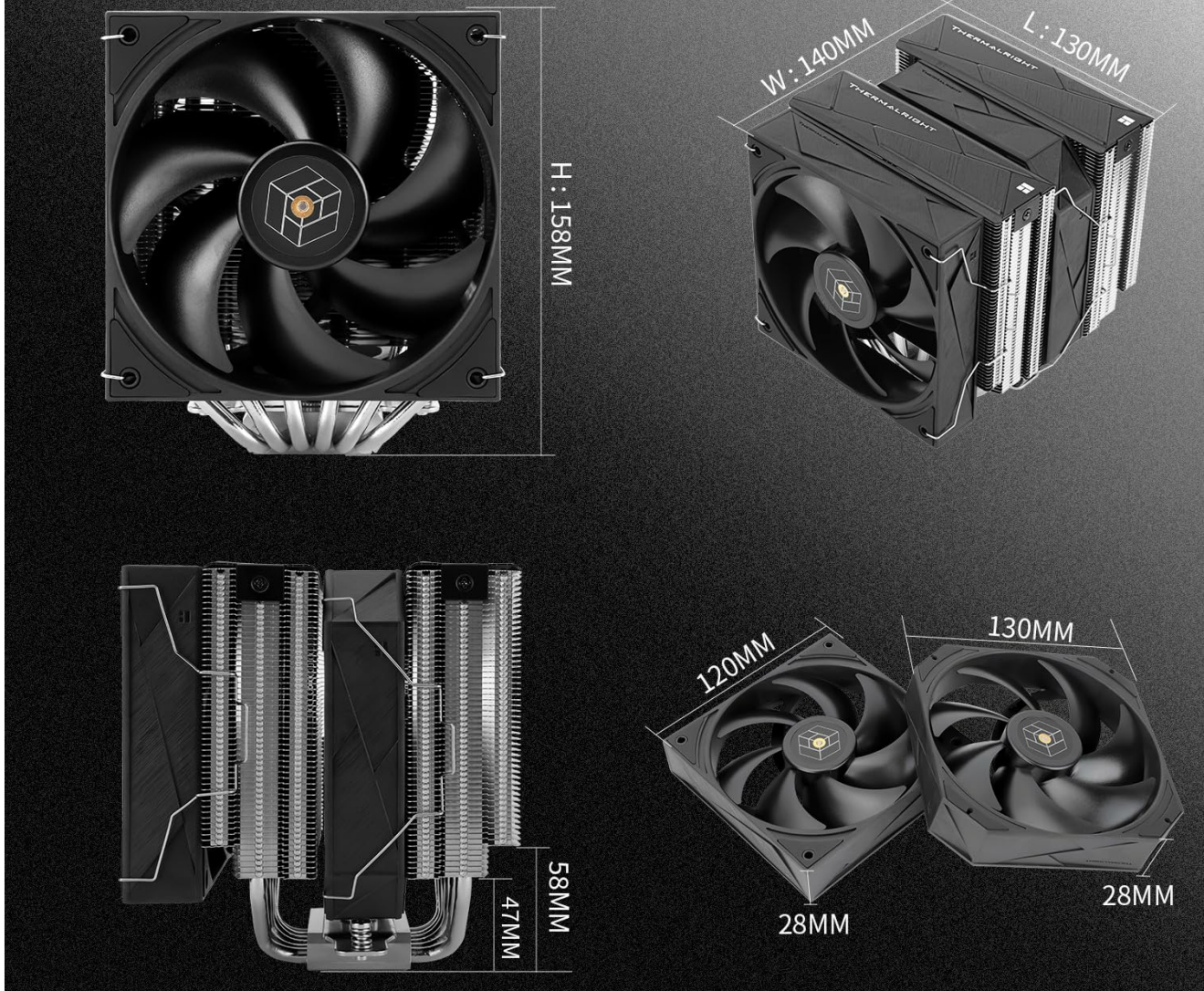


Image 7.1: Dimensions of the Royal Pretor 130 CPU Cooler and its fans.

Feature	Detail
Model	Royal Pretor 130
Dimensions (Heatsink)	130mm (L) x 140mm (W) x 158mm (H)
Heat Pipes	6 x 6mm Pure Copper (AGHP 4.0)
Heat Dissipation Material	Aluminum, Copper
Fans Included	TL-H12-X28 (120mm), TL-HD13-X28 (130mm)
Fan Thickness	28mm
Fan Bearing Type	S-FDB V2.0
Maximum Rotational Speed	2150 RPM
Air Flow Capacity	80.45 CFM

Feature	Detail
Noise Level	29.4 dBA
Power Connector Type	4-Pin PWM
Compatible Devices	Desktop
Intel Socket Compatibility	LGA1851, LGA1700, LGA115X, LGA1200, LGA2011, LGA2066
AMD Socket Compatibility	AM4, AM5

8. WARRANTY AND SUPPORT

Thermalright products are designed for reliability and performance. For warranty information, technical support, or to purchase additional protection plans, please refer to the official Thermalright website or contact your retailer.

- **Protection Plans:** Optional 3-Year and 4-Year protection plans are available for extended coverage.
- **Returns:** A 30-day return policy for refund or replacement is typically offered.
- **Manufacturer:** Thermalright
- **Brand Store:** Visit the [Thermalright Store](#) for more products and information.