

Thermaltake TH120 V2 ARGB

Thermaltake TH120 V2 ARGB Sync All-in-One Liquid CPU Cooler Instruction Manual

Model: TH120 V2 ARGB (CL-W363-PL12SW-A)

1. PRODUCT OVERVIEW

The Thermaltake TH120 V2 ARGB Sync All-in-One Liquid CPU Cooler features a new industrial design with an infinity mirror light effect on the waterblock. It is equipped with a CT120 ARGB fan and a 27mm slim radiator with a thickened 20mm copper chamber for efficient cooling. This cooler is designed for compatibility with various Intel and AMD CPU sockets and supports motherboard ARGB sync control.



Image 1.1: Thermaltake TH120 V2 ARGB Liquid Cooler showing the radiator, fan, and waterblock with infinity mirror lighting.

2. SPECIFICATIONS

Component	Specification
P/N	CL-W363-PL12SW-A
Pump Speed	PWM 1500~3300 R.P.M
Pump Rated Voltage	12V
Pump Rated Current	0.43A
Pump Power Input	5.16W & 1.6W
Pump Connector	2510-4 Pin / 5V ARGB header-3 Pin
Water Block Material	Copper
Fan Dimension	120 x 120 x 25 mm
Fan Speed	PWM 500~1800 R.P.M
Fan Rated Voltage	12V/5V
Fan Rated Current	0.32A & 0.31A (one fan)
Fan Power Input	3.84W & 1.55W (one fan)
Max Air Flow	84.32 CFM
Max Static Pressure	3.02mm-H2O (one fan)
Noise Level	25.8 dB-A
Fan Connector	2510 - 4 Pin PWM
Tube Length	460 mm
Tube Material	Rubber
Radiator Dimension	157 x 120 x 27 mm
Radiator Material	Aluminum

3. COMPATIBILITY

The Thermaltake TH120 V2 ARGB Liquid CPU Cooler is compatible with a wide range of Intel and AMD CPU sockets:

- **Intel:** LGA 2066, 2011-3, 2011, 1700, 1200, 1156, 1155, 1151, 1150
- **AMD:** AM5, AM4, AM3+, AM3, AM2+, AM2, FM2, FM1

4. SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and unplugged. Refer to your motherboard manual for specific header locations.

4.1. Waterblock and Fan Overview



Image 4.1: The waterblock features an infinity mirror design for aesthetic lighting effects.



Image 4.2: Side view of the waterblock and tubing, highlighting the robust connections.



Image 4.3: The copper cold plate on the underside of the waterblock ensures efficient heat transfer from the CPU.

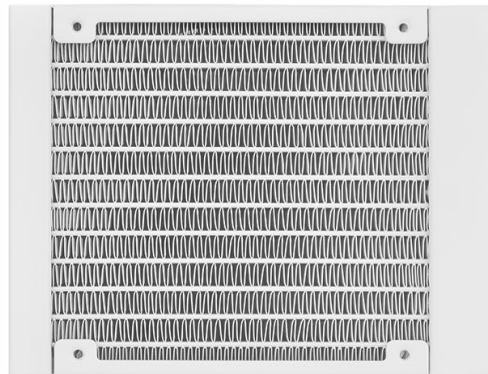


Image 4.4: The CT120 ARGB fan provides airflow to the radiator and features customizable RGB lighting.



Image 4.5: Close-up of the radiator fins, designed for optimal heat dissipation.

4.2. Mounting Hardware

The package includes brackets for both Intel and AMD CPU sockets. Ensure you use the correct hardware for your motherboard.



Image 4.6: Included mounting hardware for various CPU platforms.

4.3. Radiator and Fan Installation

1. Mount the CT120 ARGB fan to the radiator using the provided screws. Ensure the fan is oriented to push or pull air as desired for your case's airflow.
2. Install the assembled radiator and fan unit into your PC case. Common mounting locations include the top, front, or rear of the case, depending on available space.

4.4. Waterblock Installation (General Steps)

1. Prepare your CPU socket by removing any existing cooler or stock retention modules (for AMD).
2. Install the appropriate backplate (Intel) or standoffs (AMD) on the rear of your motherboard.

3. Apply a small amount of thermal compound to the center of your CPU's Integrated Heat Spreader (IHS).
4. Remove the protective sticker from the copper cold plate of the waterblock.
5. Carefully place the waterblock onto the CPU, aligning the mounting holes on the waterblock bracket with the standoffs/screws on the motherboard.
6. Secure the waterblock by tightening the mounting screws/nuts in a diagonal pattern until snug. Do not overtighten.

4.5. Cable Connections

- Connect the 4-pin PWM cable from the fan to an available CPU_FAN header on your motherboard.
- Connect the 3-pin 5V ARGB cable from the fan to a compatible 5V ARGB header on your motherboard for lighting control.
- Connect the 4-pin PWM cable from the waterblock pump to a CPU_OPT, AIO_PUMP, or WATER_PUMP header on your motherboard.

5. OPERATING

The TH120 V2 ARGB cooler supports synchronization with various motherboard RGB software, including ASUS Aura Sync, GIGABYTE RGB Fusion, MSI Mystic Light Sync, and ASRock Polychrome. Once connected to a compatible 5V ARGB header, you can control the lighting effects through your motherboard's software.



Image 5.1: The waterblock's infinity mirror lighting provides diverse visual effects.

6. MAINTENANCE

- **Dust Removal:** Regularly clean the radiator fins and fan blades to prevent dust buildup, which can hinder cooling performance. Use compressed air or a soft brush.
- **Cable Management:** Ensure all cables are neatly routed and secured to prevent interference with fan blades or other components.
- **Coolant Check:** This is an All-in-One (AIO) closed-loop system and does not require regular coolant refills. The low evaporation tube effectively decreases the loss of coolant.

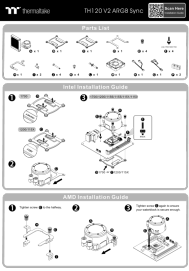
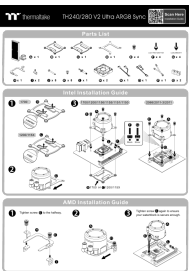
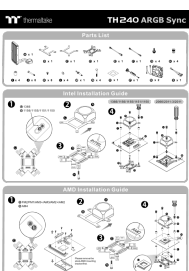
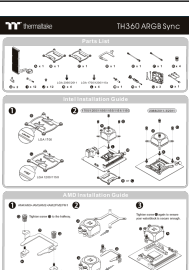
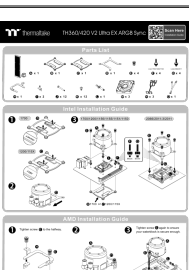
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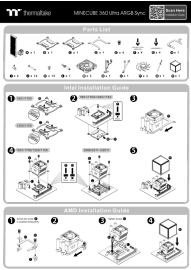
- **No RGB Lighting:** Ensure the 3-pin 5V ARGB cable is correctly connected to a compatible motherboard header. Check your motherboard's RGB software for lighting control settings.
- **Poor Cooling Performance:** Verify that the waterblock is securely mounted to the CPU with adequate thermal compound. Check fan and pump connections to ensure they are receiving power and operating correctly. Ensure radiator fins are free of dust.
- **Pump Noise:** Some minor pump noise is normal. If excessive noise occurs, check for air bubbles in the loop by gently tilting the PC case. Ensure the pump is running at an appropriate speed via BIOS or software.

8. WARRANTY AND SUPPORT

This product comes with a **2-Year Warranty**. For technical support, warranty claims, or further assistance, please visit the official Thermaltake website or contact their customer service.

Related Documents - TH120 V2 ARGB

 The thumbnail shows the cover of the 'Thermaltake TH120 V2 ARGB Sync' installation guide. It features the Thermaltake logo, a parts list, and numbered diagrams for Intel and AMD installation steps.	<p>Thermaltake TH120 V2 ARGB Sync Installation Guide</p> <p>Detailed installation guide for the Thermaltake TH120 V2 ARGB Sync All-In-One Liquid Cooler, covering Intel and AMD CPU installations, as well as motherboard synchronization.</p>
 The thumbnail shows the cover of the 'Thermaltake TH240/280 V2 Ultra ARGB Sync' installation guide. It includes the Thermaltake logo, a parts list, and numbered diagrams for Intel and AMD installation steps.	<p>Thermaltake TH240/280 V2 Ultra ARGB Sync Installation Guide</p> <p>A comprehensive installation guide for the Thermaltake TH240/280 V2 Ultra ARGB Sync All-In-One Liquid Cooler, detailing parts, Intel and AMD CPU cooler installation, and RGB synchronization setup.</p>
 The thumbnail shows the cover of the 'Thermaltake TH240 ARGB Sync' installation guide. It features the Thermaltake logo, a parts list, and numbered diagrams for Intel and AMD installation steps.	<p>Thermaltake TH240 ARGB Sync CPU Cooler Installation Guide</p> <p>Detailed installation guide for the Thermaltake TH240 ARGB Sync CPU cooler, covering parts list, Intel and AMD installation, ARGB controller functions, and motherboard synchronization.</p>
 The thumbnail shows the cover of the 'Thermaltake TH360 ARGB Sync' installation guide. It includes the Thermaltake logo, a parts list, and numbered diagrams for Intel and AMD installation steps.	<p>Thermaltake TH360 ARGB Sync Installation Guide</p> <p>Detailed installation guide for the Thermaltake TH360 ARGB Sync All-in-One Liquid CPU Cooler, covering parts list, Intel and AMD CPU installation, ARGB controller setup, and motherboard synchronization.</p>
 The thumbnail shows the cover of the 'Thermaltake TH360/420 V2 Ultra EX ARGB Sync' installation guide. It features the Thermaltake logo, a parts list, and numbered diagrams for Intel and AMD installation steps.	<p>Thermaltake TH360/420 V2 Ultra EX ARGB Sync Installation Guide</p> <p>Detailed installation guide for the Thermaltake TH360/420 V2 Ultra EX ARGB Sync All-In-One Liquid Coolers, covering parts list, Intel and AMD CPU installation, and LCD display setup.</p>



[Thermalright MINECUBE 360 Ultra ARGB Sync Installation Guide](#)

Detailed installation guide for the Thermalright MINECUBE 360 Ultra ARGB Sync CPU cooler, covering parts list and step-by-step instructions for Intel and AMD platforms.