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› Thermalright FW 360 White ARGB 360mm AIO Liquid CPU Cooler User Manual

## Thermalright FW 360

# Thermalright FW 360 White ARGB 360mm AIO Liquid CPU Cooler User Manual

Model: FW 360 | Brand: Thermalright

## 1. INTRODUCTION

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The Thermalright FW 360 White ARGB is a high-performance 360mm All-in-One (AIO) liquid CPU cooler designed for efficient heat dissipation in desktop computers. It features a new generation water pump system, three PWM fans with ARGB lighting, and an integrated IPS LCD screen for real-time system monitoring and customization. This manual provides essential information for the installation, operation, and maintenance of your FW 360 cooler.

## FW 360 WHITE ARGB

Raffreddatore CPU a liquido a circuito chiuso ad alte prestazioni



Image 1.1: Thermalright FW 360 White ARGB Liquid CPU Cooler.

## 2. PACKAGE CONTENTS

Verify that all components are present in the package:

- Thermalright FW 360 White ARGB Liquid CPU Cooler (Radiator, Pump/Cold Plate with IPS LCD, and three pre-installed TL-P12W-S PWM ARGB Fans)
- Mounting hardware for AMD (AM4 / AM5) and Intel (LGA1150/1151/1155/1156/1200/2011/2066/1700) platforms
- Water tube clips
- User Manual (this document)

## 3. COMPATIBILITY

The Thermalright FW 360 Liquid CPU Cooler is compatible with a wide range of CPU sockets:

- **AMD:** AM4, AM5
- **Intel:** LGA1150, LGA1151, LGA1155, LGA1156, LGA1200, LGA2011, LGA2066, LGA1700

Ensure your motherboard has a 5V 3-pin ARGB connector for lighting synchronization.



*Image 3.1: Supported Motherboard Sockets.*

## 4. SETUP AND INSTALLATION

The installation process for the Thermalright FW 360 is designed to be straightforward. Each platform includes the corresponding mounting hardware.

### 4.1 General Installation Steps

1. **Prepare your Motherboard:** Install the appropriate backplate and standoffs for your CPU socket (AMD or Intel).
2. **Mount the Radiator:** Secure the 360mm radiator to your PC case. The fans are pre-installed for convenience.
3. **Install the Pump/Cold Plate:** Apply thermal paste to your CPU (if not pre-applied on the cold plate). Place the pump/cold plate assembly onto the CPU and secure it using the SS2 metal buckle system. This system ensures uniform contact pressure.
4. **Connect Cables:**
  - Connect the pump's power cable to the designated header on your motherboard.
  - Connect the fan PWM cables to the CPU\_FAN or other fan headers on your motherboard.
  - Connect the ARGB cables from the fans and pump to a 5V 3-pin ARGB header on your motherboard for lighting synchronization.
5. **Cable Management:** Use the provided water tube clips and other cable ties to manage the tubing and cables for a clean build and optimal airflow.

**Important:** For detailed visual instructions, it is highly recommended to refer to the official installation video or the comprehensive manual provided with your product. Incorrect installation can lead to poor cooling performance or damage

to components.

Image 4.1: SS2 Metal Buckle System for secure mounting.

## 5. OPERATING INSTRUCTIONS

### 5.1 IPS LCD Screen Functionality

The integrated 2.4-inch IPS LCD screen (320x240 resolution) on the pump block provides real-time system monitoring and customization options.

- **System Monitoring:** Display CPU temperature, GPU temperature, clock frequencies, and other system statistics.
- **Customization:** Supports various static and dynamic image changes, including GIFs and videos. You can also project your system's screen (software dependent).
- **Adjustability:** The screen can be freely adjusted for optimal viewing.



Image 5.1: Real-time system monitoring on the IPS LCD screen.

# ANIMAZIONI O VIDEO PERSONALIZZABILI

Usa la tua animazione gif preferita o video  
come sfondi tema personalizzato .



*Image 5.2: Customizable animations and standby themes.*

## 5.2 Fan and ARGB Control

The TL-P12W-S fans feature PWM (Pulse Width Modulation) control, allowing their speed to automatically adjust based on CPU temperature, optimizing cooling performance and noise levels.

- **PWM Control:** Connect the fan PWM cables to your motherboard's fan headers to enable automatic speed control.
- **ARGB Synchronization:** Connect the ARGB cables to a 5V 3-pin ARGB header on your motherboard. Use your motherboard's software or a compatible ARGB controller to customize lighting effects and synchronize them with other ARGB components in your system.



## FW 360 BLACK ARGB SPECIFICA

RAFFREDDAMENTO	SPECIFICA	TL-P12 -S	SPECIFICA
Dimensioni del blocco dell'acqua	69.2mm * 69.2mm * 60mm	Dimensioni del ventilatore	120mm * 120mm * 25mm
Dimensioni del radiatore	397mm * 120mm * 27mm	Velocità nominale del ventilatore	2000RPM ± 10%
Rumore della pompa dell'acqua	≤ 23dBA	Rumore nominale del ventilatore	≤ 29.8dBA
Velocità della pompa dell'acqua	3000RPM ± 10%	Flusso d'aria del ventilatore	70.84CFM (MAX)
Corrente nominale della pompa	0.28 ± 10%A	Pressione statica del ventilatore	2.63mm/H <sup>2</sup> O (MAX)
Potenza nominale della pompa	≤ 3.4W	Connettore del ventilatore	4PIN PWM
Cuscinetto della pompa	Cuscinetto ceramico	Tensione nominale del ventilatore	DC 12V
Potenza della pompa	DC 12V	Corrente nominale del ventilatore	0.17A (MAX)
		Tipo di cuscinetto del ventilatore	Cuscinetto S-FDB
		SUPPORTO RGB DELLA VENTOLA	+ 5 V indirizzabile RGB

Image 5.3: TL-P12W-S ARGB Fan with specifications.

## 6. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean the radiator fins and fan blades using compressed air to remove dust buildup. Dust can impede airflow and reduce cooling efficiency.
- **Inspect Tubing and Connections:** Occasionally check the liquid tubes and connections for any signs of leaks or damage. While the tubes are protected against liquid evaporation, regular inspection is recommended.
- **Fan Inspection:** Ensure fans are spinning freely and quietly. If a fan becomes noisy or stops spinning, it may need replacement.
- **Thermal Paste:** If you ever remove the cold plate from the CPU, clean off the old thermal paste and apply a fresh layer before reinstallation.

## 7. TROUBLESHOOTING

If you encounter issues with your Thermalright FW 360 cooler, refer to the following common troubleshooting steps:

- **High CPU Temperatures:**
  - Ensure the pump is running and connected correctly.
  - Verify that the fans are spinning and connected to appropriate headers.
  - Check if the cold plate is making proper contact with the CPU. Reapply thermal paste if necessary.
  - Clean any dust from the radiator fins.
- **Fans Not Spinning/ARGB Not Lighting Up:**
  - Check all power and ARGB cable connections to the motherboard.

- Ensure your motherboard's 5V 3-pin ARGB header is enabled in the BIOS/UEFI or through motherboard software.
- Test fans individually if possible.

- **Pump Noise:**

- Ensure the pump is securely mounted and not vibrating against other components.
- Check for air bubbles in the loop (though less common in AIOs, tilting the case can sometimes help).

- **LCD Screen Not Displaying:**

- Verify the display's power and data cables are securely connected.
- Ensure any required software for the display is installed and running.

If problems persist, please contact Thermalright customer service for further assistance.

## 8. SPECIFICATIONS

Feature	Specification
Brand	Thermalright
Model	FW 360 White ARGB
Cooling Method	Liquid (All-in-One)
Radiator Dimensions	397mm x 120mm x 27mm
Product Dimensions (Overall)	39.7L x 2.7H cm
Material	Aluminum
Compatible Devices	Desktop Computers
CPU Socket Compatibility	AMD: AM4 / AM5, Intel: LGA1150/1151/1155/1156/1200/2011/2066/1700
Fan Model	TL-P12W-S
Fan Dimensions	120mm x 120mm x 25mm
Fan Speed (Max)	2000 RPM $\pm$ 10%
Airflow (Max)	70.84 CFM
Noise Level (Max)	29.8 Decibels
Fan Power Connector	4-pin PWM
ARGB Connector	5V 3-pin ARGB
Pump Voltage	12 Volts (DC)
Pump Wattage	3.4 watts
IPS LCD Screen Resolution	320 x 240
Included Components	Liquid CPU Cooler

Feature	Specification
Country of Origin	China
UPC	755225214595

## 9. WARRANTY AND SUPPORT

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For warranty information, please refer to the documentation included with your purchase or the official Thermalright website.

If you have any questions, require technical assistance, or encounter issues not covered in this manual, please contact Thermalright customer service. Contact details can typically be found on the product packaging or the official Thermalright website.

