

Thermaltake CLP0575

THERMALTAKE Frio OCK CPU Cooler User Manual

Model: CLP0575

1. INTRODUCTION

Thank you for choosing the Thermaltake Frio OCK CPU Cooler. This high-performance air cooler is designed to provide superior thermal dissipation for your CPU, supporting all current Intel and AMD platforms with a thermal design power (TDP) of up to 240W. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your cooler.



Figure 1: Thermaltake Frio OCK CPU Cooler, showing its large heatsink and dual fan configuration.

2. SAFETY INFORMATION

Please read the following safety precautions carefully before installing or operating the cooler to prevent injury or damage to your system components.

- Ensure your computer system is powered off and unplugged from the wall outlet before installation.
- Handle the cooler and its components with care to avoid bending fins or damaging heat pipes.
- Keep out of reach of children.
- Do not attempt to modify the cooler or its components. Unauthorized modifications may void your warranty and pose safety risks.
- Wear anti-static wrist straps or frequently touch a grounded metal object to discharge static electricity before handling internal components.
- Ensure proper ventilation within your PC case to maximize cooling efficiency.

3. SETUP AND INSTALLATION

3.1 Package Contents

Verify that all components are present in the package:

- Thermaltake Frio OCK CPU Cooler (Heatsink with pre-installed fans)
- Universal Backplate
- Mounting Brackets (Intel/AMD)
- Mounting Screws and Spacers
- Thermal Grease
- User Manual (this document)

3.2 Installation Steps

Follow these steps to install the Thermaltake Frio OCK CPU Cooler:

1. **Prepare the Motherboard:** Remove your existing CPU cooler. Clean any old thermal paste from the CPU surface using isopropyl alcohol and a lint-free cloth.
2. **Install the Backplate:** Depending on your CPU socket (Intel or AMD), align the universal backplate with the holes on the back of your motherboard. Secure it with the appropriate standoffs from the front side of the motherboard.
3. **Apply Thermal Grease:** Apply a small, pea-sized amount of the provided thermal grease to the center of your CPU's integrated heat spreader (IHS). Do not spread it manually; the pressure from the cooler will distribute it evenly.
4. **Attach Mounting Brackets:** Secure the correct mounting brackets (Intel or AMD) to the base of the Frio OCK cooler using the provided screws.
5. **Mount the Cooler:** Carefully place the Frio OCK cooler onto the CPU, aligning the mounting holes on the brackets with the standoffs on the motherboard. Apply even pressure and secure the cooler using the spring-loaded screws. Tighten screws in a diagonal pattern until snug.
6. **Connect Fan Cables:** Connect the 4-pin PWM fan cables from the cooler's fans to the CPU_FAN headers on your motherboard. Ensure correct polarity.
7. **Check Clearance:** Verify that the cooler does not interfere with RAM modules, PCIe cards, or your PC case side panel. The Frio OCK is a large cooler, so ensure adequate space.



Figure 2: Top view of the cooler, illustrating fan placement and overall dimensions for clearance checks.



Figure 3: Bottom view of the cooler, highlighting the fan's specifications and mounting points.

4. OPERATING INSTRUCTIONS

4.1 Fan Speed Control

The Thermaltake Frio OCK CPU Cooler features two 120mm fans with PWM (Pulse Width Modulation) control. This allows your motherboard to automatically adjust fan speeds based on CPU temperature, optimizing for both cooling performance and noise levels. Fan speeds range from 1,200 RPM to 2,100 RPM.

- **BIOS/UEFI Settings:** You can typically configure fan curves in your motherboard's BIOS/UEFI settings to customize fan behavior.
- **Software Control:** Some motherboard manufacturers provide software utilities for fan control within the operating

system.

4.2 Thermal Performance

The Frio OCK is designed to handle high thermal loads up to 240W. Optimal performance is achieved with proper airflow within your PC case. Ensure intake and exhaust fans are correctly configured to facilitate efficient heat removal from the system.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning helps maintain optimal cooling performance. It is recommended to clean the cooler every 3-6 months, or more frequently in dusty environments.

- **Dust Removal:** Use compressed air to blow dust out of the heatsink fins. Hold the fan blades gently to prevent them from spinning excessively during cleaning, which can damage the bearings.
- **Fan Cleaning:** The plastic shroud holding the fans can be easily removed for thorough cleaning of the fan blades and heatsink.

5.2 Thermal Paste Application

The thermal paste applied during initial installation typically lasts for several years. If you remove the cooler for any reason, it is crucial to clean off the old thermal paste from both the CPU and the cooler's base and apply a fresh layer before re-installation.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your CPU cooler.

Problem	Possible Cause	Solution
High CPU Temperatures	Insufficient thermal paste or improper application. Fans not spinning or spinning too slowly. Dust buildup on heatsink fins. Poor case airflow.	Reapply thermal paste. Check fan connections to motherboard. Adjust fan curve in BIOS/UEFI. Clean heatsink and fans. Improve case fan configuration.
Excessive Fan Noise	Fans spinning at maximum RPM. Dust buildup on fan blades. Loose fan mounting.	Adjust fan curve in BIOS/UEFI to lower RPM at idle/low load. Clean fan blades. Ensure fans are securely mounted to the heatsink.
Cooler Not Fitting in Case	Case too narrow. Interference with RAM modules.	Verify case clearance before purchase. Consider a wider case. Use low-profile RAM modules if possible.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	CLP0575
Dimensions (L x W x H)	143 x 136.8 x 158.4 mm (5.63 x 5.39 x 6.24 inches)
Weight	1.1 kg (2.43 lbs)
Heat Sink Material	Aluminum Fins, Copper Heat Pipes
Heat Pipes	6 x Ø6mm U-shaped copper heat pipes
Fan Dimensions	2 x 120 x 120 x 25 mm
Fan Speed	1,200 - 2,100 RPM (PWM controlled)
Noise Level	21 - 48 dBA
Rated Voltage	12V
Power Consumption	240W (Max TDP)
Connector	4-pin PWM
Compatibility	Intel LGA 2066/2011-3/2011/1366/1156/1155/1151/1150/775, AMD AM4/AM3+/AM3/AM2+/AM2/FM2+/FM2/FM1



Figure 4: Side view of the cooler, emphasizing the heatsink fin array and heat pipe design.

8. WARRANTY AND SUPPORT

Thermaltake products are manufactured to the highest quality standards. This product is covered by a limited

warranty from the date of purchase. Please refer to the official Thermaltake website or your regional distributor for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the official Thermaltake support website or contact their customer service department. Keep your proof of purchase for warranty claims.

Thermaltake Official Website: www.thermaltake.com

ASK A QUESTION ABOUT THIS MANUAL

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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