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## Dynatron C2

# Dynatron C2 Intel 7529 2U Active CPU Cooler User Manual

Model: C2

Brand: Dynatron

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Dynatron C2 Intel 7529 2U Active CPU Cooler. Designed for Intel CPUs with an LGA 7529 socket, this cooler ensures optimal thermal management for your system. Please read this manual thoroughly before installation and use.

Key features of the Dynatron C2 include its compact dimensions suitable for 2U rack-mounted servers, enhanced cooling performance with a PWM function fan, premium aluminum stacked-fin and heat pipe construction, convenient mounting system, and pre-applied thermal grease for efficient heat transfer.

## 2. SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing components.
- Handle the CPU cooler and other components with care to avoid damage.
- Ensure proper grounding to prevent electrostatic discharge (ESD).
- Keep out of reach of children.
- Do not operate the cooler if the fan is damaged or obstructed.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Dynatron C2 Intel 7529 2U Active CPU Cooler (1)
- Mounting hardware (integrated or included as a separate frame)

## 4. PRODUCT OVERVIEW

The Dynatron C2 CPU cooler consists of a heatsink assembly with aluminum stacked-fins, copper heat pipes, a base plate, and an integrated fan. The base plate comes with pre-applied thermal grease for direct contact with the CPU.



Figure 1: Top-down view of the Dynatron C2 CPU Cooler, showing the heatsink fins and integrated fan.



Figure 2: Side view of the Dynatron C2 CPU Cooler, highlighting the copper heat pipes extending from the base.

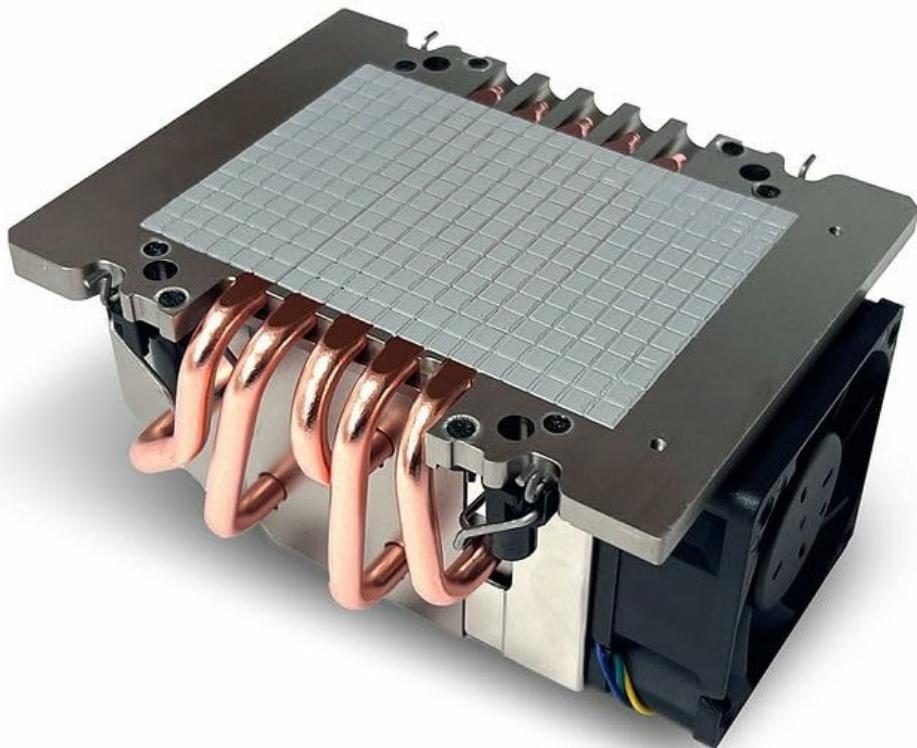


Figure 3: Bottom view of the Dynatron C2 CPU Cooler, showing the contact plate with pre-applied thermal grease.

## 5. SPECIFICATIONS

Feature	Specification
CPU Support	Intel
CPU Socket	LGA 7529
Solution	2U and Up
Dimensions (L x W x H)	132.5 x 97.8 x 67 mm (5.22" L x 3.85" W x 2.64" H)
Weight	630 g (1.39 Pounds)
Material	Aluminum Stacked-fin with Heat Pipes (Copper)
Fan Dimension	60 x 60 x 25 mm
Fan Speed (PWM)	20% Duty Cycle: 2300 ± 200 RPM 50% Duty Cycle: 5400 ± 10% RPM 100% Duty Cycle: 11000 ± 10% RPM
Rated Voltage	12V DC

Feature	Specification
Bearing Type	2 Ball Bearing
Power Consumption	20% Duty Cycle: 0.84 W 50% Duty Cycle: 2.76 W 100% Duty Cycle: 18 W
Air Flow	20% Duty Cycle: 11.91 CFM 50% Duty Cycle: 28.38 CFM 100% Duty Cycle: 58.31 CFM
Noise Level	20% Duty Cycle: 25.8 dBA 50% Duty Cycle: 44.4 dBA 100% Duty Cycle: 59.8 dBA
Air Pressure	20% Duty Cycle: 1.48 mm-H2O 50% Duty Cycle: 7.54 mm-H2O 100% Duty Cycle: 28.8 mm-H2O
Lead Wire Pin Out	Pin#1- Black(-), Pin#2- Yellow(+), Pin#3- Green(Tachometer/ Signal Output), Pin#4- Blue (PWM)
Thermal Grease	Shin-Etsu 7762 (Pre-applied)

## 6. SETUP AND INSTALLATION

The Dynatron C2 cooler is designed for easy installation on Intel LGA 7529 sockets, featuring a convenient heat sink screw captive mounting system and pre-applied thermal grease.

### Installation Steps:

- Prepare the CPU Socket:** Ensure the Intel LGA 7529 socket on your motherboard is clean and free of debris.
- Position the Cooler:** Carefully align the Dynatron C2 cooler over the CPU, ensuring the mounting holes on the cooler's base align with the screw posts around the CPU socket. The cooler's base has pre-applied thermal grease (Shin-Etsu 7762), so no additional application is needed.
- Secure the Cooler:** Using a screwdriver, tighten the captive screws on the cooler's mounting brackets in a diagonal pattern (e.g., top-left, bottom-right, top-right, bottom-left). Tighten gradually and evenly until the cooler is firmly seated and stable. Do not overtighten.
- Connect the Fan:** Locate the 4-pin fan connector on the Dynatron C2 cooler. Connect this cable to the designated CPU\_FAN header on your motherboard. Ensure the connector is fully seated.

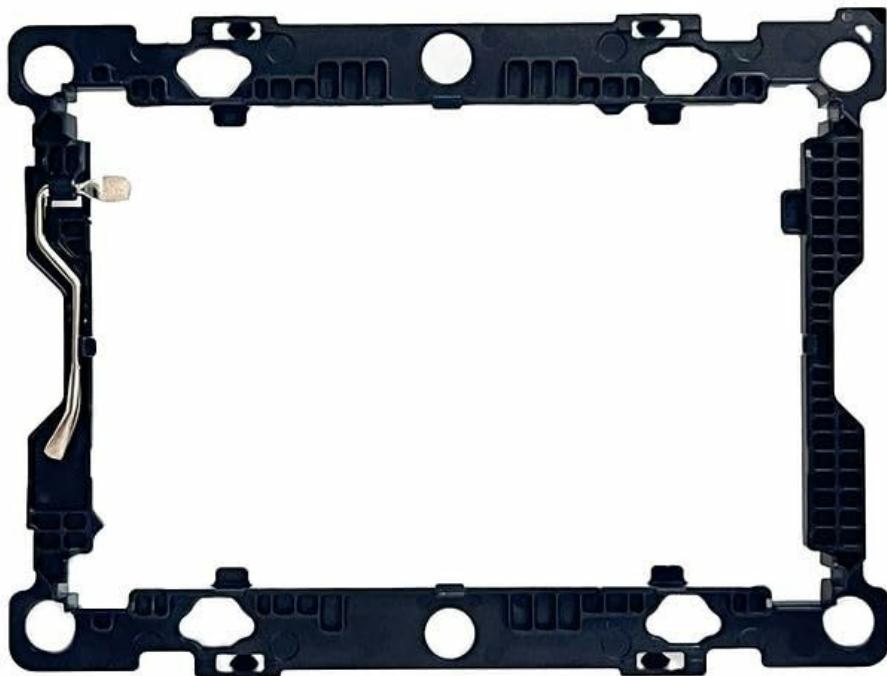


Figure 4: Example of a mounting frame for LGA 7529 socket (actual frame may vary or be integrated).

## 7. OPERATION

Once installed and connected, the Dynatron C2 CPU cooler operates automatically. The 60x60x25mm fan features a PWM (Pulse Width Modulation) function, allowing the motherboard to dynamically adjust fan speed based on CPU temperature. This ensures efficient cooling while minimizing noise during lighter workloads.

The fan operates at speeds ranging from approximately 2300 RPM (at 20% duty cycle) to 11000 RPM (at 100% duty cycle), providing robust airflow as needed to dissipate heat from the CPU.

## 8. MAINTENANCE

To ensure optimal performance and longevity of your Dynatron C2 CPU cooler, periodic maintenance is recommended.

- **Dust Removal:** Regularly inspect the cooler for dust accumulation on the fan blades and heatsink fins. Dust can impede airflow and reduce cooling efficiency. Use compressed air or a soft brush to gently remove dust. Ensure the system is powered off and unplugged before cleaning.
- **Fan Inspection:** Periodically check that the fan spins freely and quietly. If unusual noises occur, inspect for obstructions or signs of wear.
- **No Disassembly:** Do not attempt to disassemble the fan or heatsink assembly beyond routine cleaning. Unauthorized disassembly may void your warranty.

## 9. TROUBLESHOOTING

If you encounter issues with your Dynatron C2 CPU cooler, refer to the following common problems and solutions:

- **Issue: High CPU Temperatures**

**Solution:** Verify that the cooler is securely mounted to the CPU and that all captive screws are tightened evenly. Check the fan connection to the motherboard's CPU\_FAN header. Ensure adequate airflow within the computer chassis and that no cables or components are obstructing the cooler's fan.

- **Issue: Fan Not Spinning or Making Unusual Noise**

**Solution:** Check the 4-pin fan cable connection to the motherboard. Power off the system and inspect the fan for any physical obstructions (e.g., loose wires). If the fan is faulty or damaged, contact Dynatron support or your reseller for assistance.

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, and service inquiries regarding your Dynatron C2 Intel 7529 2U Active CPU Cooler, please refer to the official Dynatron website or contact your authorized reseller. It is recommended to retain your purchase receipt as proof of purchase for any warranty claims.

### Related Documents - C2

	<p><a href="#"><u>Dynatron U9 CPU Cooler Installation Guide for Intel LGA 20XX</u></a></p> <p>Comprehensive installation guide for the Dynatron U9 CPU cooler, designed for Intel LGA 20XX sockets. Features a list of components and detailed, step-by-step instructions with textual descriptions of diagrams.</p>
	<p><a href="#"><u>Dynatron L25-1 All-In-One Liquid Cooler Installation Guide</u></a></p> <p>This document provides a comprehensive installation guide for the Dynatron L25-1 All-In-One Liquid Cooler. It details the box contents and offers step-by-step instructions for both Intel and AMD CPU socket installations, ensuring proper mounting and connection for optimal cooling performance.</p>
	<p><a href="#"><u>Dynatron Solaris 700 Series Service Manual - Comprehensive Guide</u></a></p> <p>Detailed service manual for the Dynatron Solaris 700 Series therapeutic devices, covering electrotherapy, ultrasound, light therapy, and technical specifications. Includes operational instructions and troubleshooting for models 701, 705, 706, 708, and 709.</p>