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Thermalright TL-C14C-S

Thermalright TL-C14C-S 140mm Silent Cooling Fan Instruction Manual

Introduction

Welcome to the instruction manual for your new Thermalright TL-C14C-S 140mm Silent Cooling Fan. Thermalright, a Taiwanese brand with over 20 years of development, specializes in high-performance computer accessories. This manual provides essential information for the proper installation, operation, and maintenance of your cooling fan, ensuring optimal performance and longevity.

Product Features

- **High-Performance Cooling:** Features automatic speed control via a 4-pin PWM fan cable interface, allowing the fan speed to adjust based on motherboard temperature, with a maximum speed of 1500 RPM.
- **Vibrant ARGB Lighting:** High-brightness ARGB atomizer fan blades effectively reflect light, creating a smooth and integrated ARGB lighting effect. Supports up to 17 light effect modes and can be managed and synchronized through a 5V 3-pin ARGB motherboard header.
- **Optimized Dimensions:** Model TL-C14C-S, size 140x140x25 mm. Operates at 1500 RPM ± 10%, with a low noise level of ≤ 26.4 dBA. Provides an air pressure of 1.93 mm H2O and an airflow of 75.8 CFM.
- **Efficient Heat Dissipation:** Designed with 7 blades to reduce noise and enhance airflow. Four corners of the fan are equipped with soft silicone pads to absorb vibrations, ensuring high heat dissipation with low noise.
- **Versatile Application:** This computer fan can be used as a case fan or paired with a CPU cooler to enhance overall cooling performance, effectively removing dry heat from the case and high temperatures generated by the CPU.

Setup and Installation

Follow these general guidelines for installing your Thermalright TL-C14C-S fan. Always refer to your PC case or CPU cooler manual for specific mounting instructions.

1. **Prepare Mounting Location:** Identify the desired mounting location within your PC case (e.g., front, rear, top, or on a radiator/CPU cooler).
2. **Secure the Fan:** Use the provided screws to secure the fan to the mounting location. Ensure the airflow

direction is correct for your cooling setup (typically intake or exhaust for case fans, or pushing/pulling air through a radiator). The fan features double-sided rubber dampening for reduced vibration.

3. **Connect PWM Cable:** Connect the 4-pin PWM fan connector to an available 4-pin fan header on your motherboard. This allows for automatic speed control based on system temperature.
4. **Connect ARGB Cable:** Connect the 5V 3-pin ARGB connector to a compatible 5V 3-pin ARGB header on your motherboard. This enables control and synchronization of the fan's lighting effects.



Image: Thermalright TL-C14C-S fan highlighting key features such as double-sided rubber dampening, optimized airflow blade design, and the low-noise S-FDB bearing.

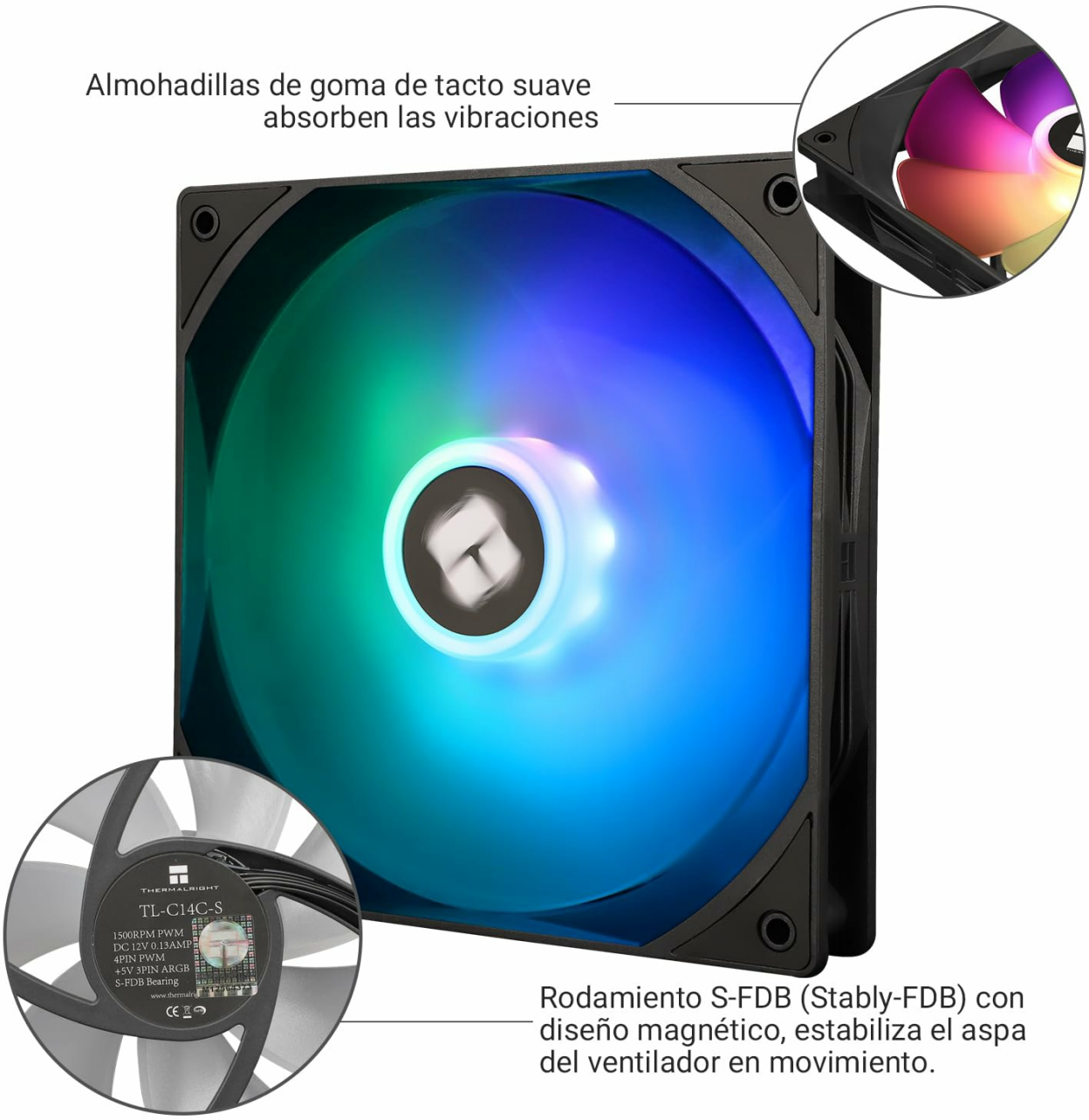


Image: Close-up view of the fan illustrating the soft-touch rubber pads designed to absorb vibrations and the S-FDB (Stably-FDB) bearing with its magnetic design for enhanced blade stability during operation.

Enfoque en el rendimiento desde una perspectiva de ingeniería

Flujo de aire con diseño de 7 aspas de 75.8CFM a 1500RPM



Image: The fan's engineering focus on performance, featuring a 7-blade design that delivers 75.8 CFM airflow at 1500 RPM, and its support for PWM fan speed control.



Image: Illustrates the fan's robust construction, featuring industrial-grade PBT and PC polymers for durability, and pre-installed silicone rubber pads on each corner for effective noise and vibration dampening.

Installation Videos

Your browser does not support the video tag.

Video: Installation tutorial for Thermalright TL-C12C-S X5 series fans. While the model number differs slightly, the general installation steps for connecting PWM and ARGB cables are applicable to the TL-C14C-S.

Your browser does not support the video tag.

Video: Overview of a Thermalright case fan. This video provides a general visual of the fan and its components, which can be helpful for understanding the product.

Operating Instructions

The Thermalright TL-C14C-S fan is designed for straightforward operation once installed correctly.

- **PWM Control:** The 4-pin PWM connection allows your motherboard to automatically adjust the fan speed based on the CPU or system temperature. This ensures efficient cooling when needed and quiet operation during lighter loads.
- **ARGB Lighting Control:** If connected to a compatible 5V 3-pin ARGB header, you can control the fan's lighting effects using your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, Gigabyte RGB Fusion, ASRock Polychrome Sync). Refer to your motherboard manual for specific software instructions.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your cooling fan.

- **Dust Cleaning:** Periodically clean the fan blades and frame to prevent dust buildup, which can impede airflow and increase noise. Use compressed air or a soft brush. Ensure the PC is powered off before cleaning.

- **Bearing Information:** The fan utilizes an S-FDB (Fluid Dynamic Bearing) which is designed for long life and quiet operation without requiring maintenance. **Do not attempt to disassemble the fan or lubricate the bearing, as this may void your warranty and damage the product.**



Image: Details the long-lasting S-FDB (Fluid Dynamic Bearing) motor, emphasizing its low friction, low noise operation, and maintenance-free design. Users are advised not to disassemble the fan.

Troubleshooting

If you encounter issues with your Thermalright TL-C14C-S fan, refer to the following common troubleshooting steps:

- **Fan Not Spinning:**
  - Ensure the 4-pin PWM connector is securely plugged into the motherboard fan header.
  - Check your motherboard's BIOS/UEFI settings to ensure the fan header is enabled and configured correctly (e.g., not set to 'off' or a very low RPM profile).
  - Verify that your power supply is functioning correctly and providing power to the motherboard.
- **No ARGB Lighting:**
  - Confirm the 5V 3-pin ARGB connector is correctly plugged into a compatible 5V 3-pin ARGB header on your motherboard. Note that this is different from a 12V 4-pin RGB header.
  - Ensure your motherboard's ARGB software is installed and configured to control the lighting.
  - Check for any physical damage to the ARGB cable or connector.
- **Excessive Noise:**
  - Ensure the fan is securely mounted and all screws are tightened. Loose mounting can cause vibrations.
  - Check for any cables or obstructions touching the fan blades.
  - Verify that the soft silicone pads on the fan corners are properly seated to absorb vibrations.
  - Clean any dust buildup on the fan blades.

Specifications

Feature	Specification
Model	TL-C14C-S
Dimensions	140 x 140 x 25 mm
Fan Speed	1500 RPM ± 10%
Noise Level	≤ 26.4 dBA
Air Flow	75.8 CFM
Air Pressure	1.93 mm H2O
Power Connector	4-pin PWM
ARGB Interface	5V 3-pin ARGB
Voltage	12 Volts
Current	0.13 A
Bearing Type	S-FDB (Fluid Dynamic Bearing)
Cooling Method	Air
Compatible Devices	Desktop Computer
Manufacturer	THERMALRIGHT
Country of Origin	China

Warranty and Support

Thermalright products typically come with a manufacturer's warranty. For specific warranty terms and conditions, including duration and coverage, please refer to the official Thermalright website or the documentation included with your purchase. Keep your proof of purchase for warranty claims.
For technical assistance, product inquiries, or support, please visit the official Thermalright website or contact their customer service department. You can often find FAQs, driver downloads, and contact information on their support pages.

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