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Thermalright TL-9015R

Thermalright TL-9015R 90mm PWM Case Fan User Manual

Model: TL-9015R | Brand: Thermalright

1. Introduction

The Thermalright TL-9015R is a high-performance 90mm PWM case fan designed for efficient CPU cooling and general case airflow. Its ultra-thin 15mm profile makes it suitable for compact builds and various cooling applications. This manual provides essential information for the proper installation, operation, and maintenance of your TL-9015R fan.

2. Package Contents

- TL-9015R Case Fan × 1
- Self-tapping Screws × 4
- Manual/Warranty Card × 1

3. Key Features

- **PWM Automatic Speed Control:** The 4-pin PWM interface allows the motherboard to automatically adjust fan speed based on system temperature, optimizing cooling performance and noise levels. Maximum speed is 2700 RPM.
- **Vibration Damping:** Equipped with four vibration damping pads to reduce noise caused by fan rotation, ensuring quiet operation.
- **High-Quality S-FDB Bearing:** Features a well-designed S-FDB (Stably-FDB) V2 liquid bearing with magnetic design for stable fan blade movement, low noise, and extended service life.
- **Ultra-Thin Design:** With a 15mm thickness, it is ideal for space-constrained environments.
- **Versatile Application:** Can be used as a case fan or paired with downward coolers for enhanced CPU heat dissipation.

4. Setup and Installation

Follow these steps for proper installation of your Thermalright TL-9015R fan. Refer to the video and images for visual guidance.

4.1 Component Overview



Figure 1: Thermalright TL-9015R fan highlighting double-sided rubber damping, airflow blade design, and low noise S-FDB bearing V2.

The TL-9015R features a balanced performance design with a 92mm fan. Key components include double-sided rubber damping for vibration reduction, an optimized airflow blade design, and a low-noise S-FDB V2 bearing for durability and quiet operation.



Figure 2: The TL-9015R fan showing its 4-pin PWM fan speed control cable.

The fan connects via a 4-pin PWM cable, allowing for precise speed control by your motherboard.

4.2 Installation Steps

1. **Determine Airflow Direction:** Identify the desired airflow direction for your case or cooler. Typically, the side with the fan blades visible is the intake, and the side with the frame structure is the exhaust.
2. **Position the Fan:** Place the fan in the desired mounting location (e.g., case fan slot, CPU cooler). Ensure the airflow direction aligns with your cooling strategy.
3. **Secure the Fan:** Use the provided self-tapping screws to firmly attach the fan to the mounting holes. Do not overtighten.
4. **Connect the PWM Cable:** Plug the 4-pin PWM connector into an available 4-pin fan header on your motherboard. Consult your motherboard manual for fan header locations.

4.3 Installation Guide Video

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Video 1: Installation guide for a case fan, demonstrating the process of mounting and connecting the fan within a PC case.

4.4 Usage Scenarios



Figure 3: Examples of the TL-9015R fan used for case airflow and with air coolers.

The TL-9015R is versatile, suitable for improving general case airflow or enhancing the cooling performance of CPU air coolers, especially in compact systems.

5. Operating Instructions

Once installed and connected, the Thermalright TL-9015R fan operates automatically via the motherboard's PWM control. No manual speed adjustment is typically required after initial setup.

- **Automatic Speed Control:** The fan speed will dynamically adjust based on the CPU or system temperature reported by the motherboard. This ensures optimal cooling under load and quieter operation during idle periods.
- **BIOS/UEFI Settings:** You can fine-tune fan curves and minimum/maximum speeds through your motherboard's BIOS/UEFI settings. Refer to your motherboard manual for specific instructions.

6. Maintenance

Regular maintenance helps ensure optimal performance and longevity of your fan.

- **Dust Removal:** Periodically clean dust accumulation from the fan blades and frame using compressed air or a soft brush. Ensure the system is powered off before cleaning.
- **Check Connections:** Occasionally verify that the 4-pin PWM cable is securely connected to the motherboard header.
- **Inspect for Obstructions:** Ensure no cables or other components are obstructing the fan blades' rotation.

7. Troubleshooting

If you encounter issues with your TL-9015R fan, consider the following:

- **Fan Not Spinning:**
  - Check if the 4-pin PWM cable is correctly and securely plugged into the motherboard fan header.
  - Ensure the motherboard fan header is enabled in BIOS/UEFI settings.
  - Verify that the system is powered on and receiving power.
- **Excessive Noise:**
  - Check for dust buildup on fan blades; clean if necessary.
  - Ensure the fan is securely mounted and not vibrating against the case or cooler.
  - Verify that no cables are touching the fan blades.
  - Adjust fan speed curves in BIOS/UEFI to reduce maximum RPM if noise is a concern at lower temperatures.
- **Poor Cooling Performance:**
  - Ensure the fan is oriented correctly for optimal airflow (intake/exhaust).
  - Check for obstructions blocking airflow to or from the fan.
  - Verify that fan speed settings in BIOS/UEFI are not set too low.

8. Specifications

Parameter	Value
Model Number	TL-9015R
Dimensions (L x W x H)	92mm x 92mm x 15mm
Rotational Speed	2700 RPM (MAX)
Noise Level	22.4 dBA
Air Flow Capacity	42.58 CFM (MAX)
Air Pressure	1.33 mm H2O (MAX)
Voltage	12V
Power Connector Type	4-Pin PWM
Bearing Type	S-FDB (Liquid Bearing)

Material	Plastic (PBT)
Compatible Devices	Desktop

9. Warranty and Support

The Thermalright TL-9015R fan comes with a warranty. Please refer to the included 'Manual/Warranty card' in your package for detailed warranty terms, conditions, and contact information for technical support. Keep your proof of purchase for warranty claims.

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