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## Rockville RRF4

# Rockville RRF4 19-Inch Rack Mount 4-Fan Cooling System

Model: RRF4 | Brand: Rockville

## Introduction

The Rockville RRF4 19-Inch Rack Mount 4-Fan Cooling System is designed to provide efficient cooling for rack-mounted audio, video, and network equipment. This unit features four high-performance fans and an integrated LED temperature display for real-time monitoring. Constructed from durable steel, the 1U rack unit is compatible with standard 19-inch racks, making it suitable for studios, home theaters, and live sound environments. Its purpose is to prevent equipment overheating and contribute to the longevity and consistent performance of your gear.




Figure 1: Front view of the Rockville RRF4 19-Inch Rack Mount 4-Fan Cooling System.

## Features

- **High-Performance Cooling:** Four powerful fans ensure consistent airflow to prevent overheating in 19-inch rack setups.
- **Real-Time Temperature Monitoring:** An integrated LED display shows the current rack temperature, allowing for immediate thermal condition assessment.
- **Efficient and Quiet Operation:** Fans are engineered to balance effective airflow with minimal noise, suitable for various environments.
- **Durable Construction:** Built from high-quality steel for robust and long-lasting performance.
- **Standard Rack Compatibility:** Designed as a 1U unit to fit standard 19-inch racks.
- **Easy Installation:** Includes rack ears and mounting hardware for quick and secure setup.
- **Versatile Use:** Ideal for cooling AV receivers, amplifiers, servers, and other rack-mounted equipment.

- **Automatic Fan Speed Adjustment:** A temperature sensor on the rear of the unit automatically adjusts fan speed based on detected heat levels.

## Package Contents

The Rockville RRF4 package includes the following items:

- Rockville RRF4 19-Inch Rack Mount 4-Fan Cooling System
- Power Cable
- Rack Mounting Screws (4 pieces)



Figure 2: Included power cable.




Figure 3: Rockville RRF4 product packaging.

## Setup & Installation

The Rockville RRF4 is designed for straightforward installation into any standard 19-inch equipment rack. Follow these steps for proper setup:

1. **Prepare the Rack:** Identify an available 1U (rack unit) space in your 19-inch equipment rack where you wish to install the RRF4. Ensure there is adequate space for airflow around the unit.
2. **Position the Unit:** Carefully align the RRF4 with the chosen rack space. The unit's rack ears have pre-drilled holes that will align with the mounting holes on your rack rails.
3. **Secure the Unit:** Use the four included rack mounting screws to firmly attach the RRF4 to the rack rails. Tighten the screws securely to prevent movement.
4. **Connect Power:** Plug the provided power cable into the AC IN port on the rear of the RRF4 unit. Connect the other end of the power cable to a suitable 110V-120V/60Hz power outlet.
5. **Verify Connection:** Once powered, the LED temperature display on the front of the unit should illuminate, indicating the RRF4 is operational.




Figure 4: Rockville RRF4 dimensions for rack installation.




Figure 5: Rear panel with power input and temperature sensor location.

### Installation Video Guide

For a visual guide on setting up your Rockville RRF4, please watch the official setup video below:

[redacted]

Video 1: "How to Set up Your RRF4" - This video demonstrates the physical installation process of the RRF4 into a rack, including mounting and power connection.

## Operation

The Rockville RRF4 operates automatically to maintain optimal temperatures within your equipment rack.

- **Automatic Temperature Monitoring:** The unit features a temperature sensor located on its rear panel. This sensor continuously monitors the internal temperature of your rack.
- **Dynamic Fan Speed:** As the temperature within the rack increases, the RRF4's four fans will automatically increase their speed to compensate and draw out hot air. Conversely, as the temperature decreases, the fan speed will reduce, ensuring efficient and quiet operation.
- **LED Temperature Display:** The front-mounted LED display provides a clear, real-time readout of the internal rack temperature in Fahrenheit. This allows you to quickly assess the thermal conditions of your equipment.




Figure 6: Front panel with LED temperature display and cooling fans.

## Product Overview Videos

For a detailed overview of the Rockville RRF4's features and benefits, please refer to the official product videos below:

[redacted]

Video 2: "Rockville RRF4 19" Rack Mount 4 Fan Cooling System with LED Temperature Display" - This video provides a comprehensive look at the RRF4's design and functionality.

[redacted]

Video 3: "All about your RRF4" - Another detailed video highlighting the key features and benefits of the RRF4 cooling system.

## Maintenance

To ensure the long-term performance and efficiency of your Rockville RRF4, consider the following maintenance guidelines:

- **Keep Vents Clear:** Regularly inspect the front and rear panels of the RRF4 to ensure that the fan grilles are free from dust, debris, or obstructions. Blocked vents can reduce cooling efficiency and potentially lead to overheating.
- **Dust Removal:** Periodically clean the unit using a soft, dry cloth. For accumulated dust on the fan blades or grilles, use compressed air to gently clear it away. Ensure the unit is powered off and unplugged before cleaning.
- **Cable Management:** Proper cable management within your rack can improve airflow and prevent cables from obstructing the RRF4's fans.
- **Environmental Conditions:** Operate the RRF4 in a well-ventilated area with stable ambient temperatures. Avoid exposing the unit to excessive moisture or extreme temperatures.

## Troubleshooting

If you encounter issues with your Rockville RRF4, refer to the following common troubleshooting steps:

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Unit does not power on / LED display is off. | No power supply or loose connection. | Ensure the power cable is securely connected to both the RRF4 and a working power outlet.<br>Check if the power outlet is functional by plugging in another device.<br>Verify the fuse (4A) on the rear panel is intact. Replace if blown. |

| Problem | Possible Cause | Solution |
| --- | --- | --- |
| Fans are not spinning or spinning slowly despite high temperature. | Temperature sensor malfunction or fan obstruction. | Ensure the temperature sensor on the rear is not obstructed.<br>Check for any physical obstructions preventing the fans from spinning freely.<br>If the issue persists, contact customer support. |
| LED temperature display shows incorrect readings or garbled characters. | Sensor issue or internal fault. | Ensure the temperature sensor is clean and unobstructed.<br>Power cycle the unit (unplug and replug).<br>If the display remains erratic, contact customer support. |
| Excessive noise from fans. | Fan bearing issue or obstruction. | Check for any loose objects or debris caught in the fan blades.<br>If the noise is persistent and mechanical, a fan bearing may be faulty. Contact customer support. |

## Specifications

| Feature | Detail |
| --- | --- |
| Model | RRF4 |
| Dimensions (L x W x H) | 19" x 4.3" x 4.3" |
| Rack Units | 1U |
| Number of Fans | 4 |
| Fan Size | 80mm |
| Fan Type | Ball Bearing Case Fans |
| Cooling Method | Forced Air |
| Air Flow Capacity | 100 Cubic Feet Per Minute (CFM) |
| Temperature Display | LED (Fahrenheit) |
| Power Input | 110V-120V / 60Hz |
| Wattage | 3.7 watts |
| Fuse | 4A |
| Power Connector Type | 3-Pin |
| Compatible Devices | Amplifier, Receiver, Servers, other rack-mounted gear |
| Construction Material | Steel |
| Item Weight | 3.9 pounds |

## Warranty & Support

Rockville products are designed for reliability and performance. For warranty information and technical support, please contact our customer service team.
**Phone Support:** 1-646-758-0144 (9AM-5PM EST Mon-Fri)

**Email Support:** sales@rockvilleaudio.com

Please have your product model number (RRF4) and purchase details available when contacting support.

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