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TRIPP LITE SRFAN1U

Tripp Lite SRFAN1U 1U Rack Cooling Fan Tray Instruction Manual

Model: SRFAN1U

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1. INTRODUCTION

The Tripp Lite SRFAN1U SmartRack 1U Fan Tray is designed to enhance ventilation within rack enclosures and server cabinets. This accessory helps maintain optimal operating temperatures for valuable rack components, contributing to improved system performance and preventing equipment failures caused by overheating.

The SRFAN1U occupies one rack unit (1U) of space and features three high-performance 120V fans. These fans are engineered to circulate air at a rate of 210 cubic feet per minute (CFM), effectively moving cool air upwards within the rack.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and follow all safety instructions before installing or operating this equipment. Failure to do so may result in injury or equipment damage.

- **Electrical Safety:** Ensure the power source matches the voltage requirements (120V) specified for the fan tray. Do not overload electrical outlets.
- **Grounding:** Always connect the fan tray to a properly grounded outlet.
- **Installation:** Install the fan tray in a standard 19-inch rack enclosure or server cabinet. Ensure proper clearance for airflow.
- **Ventilation:** Do not block the fan inlets or outlets. Maintain adequate space around the unit for proper air circulation.
- **Moisture:** Do not expose the unit to rain or excessive moisture. Operate in a dry environment.
- **Servicing:** Refer all servicing to qualified service personnel. Do not attempt to open or repair the unit yourself.
- **Power Cord:** Do not place objects on the power cord. Position the cord to avoid tripping hazards.

3. PACKAGE CONTENTS

The Tripp Lite SRFAN1U package includes the following items:

- SRFAN1U SmartRack 1U Fan Tray (with integrated 6 ft. AC power cord)
- Mounting hardware (typically cage nuts and screws, not explicitly listed but standard for rack equipment)

4. SETUP AND INSTALLATION

The SRFAN1U fan tray is designed for easy installation in any standard 19-inch rack enclosure or server cabinet.

1. **Unpack the Unit:** Carefully remove the SRFAN1U fan tray from its packaging. Inspect for any shipping damage.
2. **Select Rack Location:** Identify a 1U (one rack unit) space within your 19-inch rack. For optimal cooling, it is recommended to mount the fan tray low in the rack to facilitate pushing cool air upwards through the equipment.
3. **Mount the Fan Tray:** Align the mounting ears of the SRFAN1U with the square or threaded holes on the rack rails. Secure the fan tray using the provided rack mounting hardware (e.g., cage nuts and screws). Ensure the unit is firmly attached and level.
4. **Connect Power:** Plug the integrated 6-foot AC power cord into a standard NEMA 5-15R outlet. Ensure the outlet is properly grounded and provides the correct 120V power.



Image 4.1: Front view of the SRFAN1U fan tray, showing the three high-performance fans.



Image 4.2: Angled view of the SRFAN1U, highlighting the fan grilles and overall unit design.



Image 4.3: Side view of the SRFAN1U, illustrating the power cord exit point.

5. OPERATION

The Tripp Lite SRFAN1U fan tray operates continuously once connected to a live 120V NEMA 5-15R power outlet. There is no external on/off switch on the unit.

- **Automatic Operation:** The fans will begin operating immediately upon receiving power.
- **Airflow Direction:** The fans are designed to push air upwards, facilitating the removal of hot air from the rack and drawing in cooler air from below.
- **Continuous Cooling:** The unit provides a constant airflow of 210 CFM to help maintain stable temperatures within the rack.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your SRFAN1U fan tray.

- **Cleaning:** Periodically inspect the fan grilles for dust accumulation. Use a soft, dry cloth or a low-pressure air duster to clean the grilles and fan blades. **Always disconnect power before cleaning.**
- **Fan Inspection:** Visually inspect the fan blades for any obstructions or damage. Ensure the fans spin freely when power is applied.
- **Power Cord Check:** Regularly check the power cord for any signs of wear, cuts, or damage. Replace if necessary.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges to prevent premature wear.

7. TROUBLESHOOTING

If you encounter issues with your SRFAN1U fan tray, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fans do not operate.	No power to the unit. Faulty power outlet. Damaged power cord.	Ensure the power cord is securely plugged into a live NEMA 5-15R outlet. Test the outlet with another device. Inspect the power cord for damage; if damaged, contact support.
Reduced airflow.	Dust accumulation on grilles/fans. Obstruction in front or rear of unit.	Disconnect power and clean fan grilles and blades. Ensure no cables or other equipment are blocking airflow.
Excessive noise during operation.	Normal operating noise (high-performance fans). Loose mounting hardware. Fan bearing issue.	High-performance fans can generate noticeable noise. This is typical for the SRFAN1U. Check and tighten all rack mounting screws. If noise is unusual or excessive beyond normal fan operation, contact Tripp Lite support.

8. SPECIFICATIONS

Feature	Detail

Feature	Detail
Model Number	SRFAN1U
Brand	TRIPP LITE
Rack Space	1U
Number of Fans	3
Fan Size	4 inches (100mm)
Voltage	120 Volts AC
Wattage	9 watts
Air Flow Capacity	210 Cubic Feet Per Minute (CFM)
Cooling Method	Air
Compatible Devices	Server, Rack Enclosures, Server Cabinets
Material	Alloy Steel (Heavy-duty cold-rolled steel)
Power Connector Type	NEMA 5-15P (integrated 6 ft. cord)
Item Weight	7.25 pounds (3.29 kg)
Product Dimensions (LxWxH)	7.5 x 22.1 x 2.6 inches (19.05 x 56.13 x 6.6 cm)

9. WARRANTY INFORMATION

The Tripp Lite SRFAN1U is backed by a **2-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For complete warranty terms and conditions, please refer to the official Tripp Lite website or contact their customer support.

10. TECHNICAL SUPPORT AND CONTACT INFORMATION

For technical assistance, product information, or warranty inquiries, please contact Tripp Lite customer support:

- **Website:** Visit the official [Tripp Lite website](#) for product documentation, FAQs, and support resources.
- **Contact:** Refer to the 'Contact Us' section on the Tripp Lite website for phone numbers and email support options specific to your region.