

## Procool SX340

# PROCOOL SX340 1U Silent Rack Mount Fan Instruction Manual

MODEL: SX340

## 1. Introduction

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This manual provides essential information for the proper installation, operation, and maintenance of your PROCool SX340 1U Silent Rack Mount Fan. The SX340 is designed to provide efficient and quiet cooling for rack-mounted equipment in various environments, including home theater, AV cabinets, broadcast, network server, and recording studio racks.

The PROCool SX340 features three SX40 silent fans, an integrated front panel On/Off switch, and is available in intake or exhaust configurations to suit specific airflow requirements. It is built with quality components to ensure reliable performance.

## 2. Safety Information

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Please read all safety instructions before installing or operating the PROCool SX340 fan unit. Failure to follow these instructions may result in damage to the product or personal injury.

- **Electrical Safety:** Ensure the power supply is connected to a compatible electrical outlet. Do not expose the unit to water or excessive moisture. Disconnect power before performing any maintenance or installation.
- **Ventilation:** Ensure adequate space around the fan unit for proper airflow. Do not block the fan inlets or outlets.
- **Installation:** Install the unit securely within a standard 19-inch rack. Avoid placing heavy objects on the unit.
- **Operating Environment:** Use the fan unit within its specified operating temperature and humidity ranges.

## 3. Package Contents

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Verify that all components are present in the package:

- PROCool SX340 1U Rack Mount Fan Unit
- Power Supply (100-240 VAC to 12 VDC)

## 4. Setup

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### 4.1 Mounting the Fan Unit

The PROCOOL SX340 is designed for installation in a standard 19-inch equipment rack, occupying 1U (1.75 inches) of vertical space.

1. Identify an available 1U space in your equipment rack.
2. Align the mounting holes on the fan unit with the corresponding holes on the rack rails.
3. Secure the unit using appropriate rack screws (not included). Ensure the unit is firmly attached to prevent vibration.



Figure 1: PROCOOL SX340 1U Silent Rack Mount Fan unit. This image shows the front view of the black 1U rack-mount panel with three circular fan grilles and a power switch on the right side, along with the 'procool' logo.

### 4.2 Connecting Power

Connect the included power supply to the fan unit and a suitable electrical outlet.

1. Connect the DC plug from the power supply to the power input jack on the rear of the SX340 fan unit.
2. Plug the power supply into a standard 100-240 VAC electrical outlet.



Figure 2: PROCool SX340 Power Supply. This image displays the black AC to DC power adapter with a standard US plug and a DC barrel connector cable.

### 4.3 Airflow Configuration (Intake/Exhaust)

The standard SX340 model is configured for intake airflow, blowing air into the rack. The SX340E model is configured for exhaust, pulling air out of the rack. Ensure the chosen model matches your cooling strategy. Exhausting is typically recommended when used in conjunction with a separate intake fan to establish controlled airflow.

## 5. Operation

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### 5.1 Powering On/Off

The PROCool SX340 features a front panel On/Off switch for convenient control.

- To turn the fan unit **ON**, press the power switch located on the front panel. The fans will begin to operate.
- To turn the fan unit **OFF**, press the power switch again. The fans will stop.

### 5.2 Monitoring Performance

The SX340 operates at a fixed speed, providing a constant airflow of 18 CFM with a low noise level of 18 dBA. Regularly check the temperature within your rack to ensure effective cooling. Adjust the placement of the fan unit or other cooling solutions if temperatures remain high.

## 6. Maintenance

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Regular maintenance helps ensure the longevity and optimal performance of your PROCool SX340 fan unit.

- **Cleaning:** Periodically clean the fan grilles and blades to prevent dust buildup, which can impede airflow and reduce efficiency. Use a soft brush or compressed air. **Always disconnect power before cleaning.**
- **Inspection:** Periodically inspect the power cable and connections for any signs of wear or damage.

## 7. Troubleshooting

If you encounter issues with your PROCOOL SX340, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Fan unit does not power on	No power to the unit; Power switch is off; Faulty power supply	Check power outlet; Ensure power supply is securely connected; Press the front panel power switch to the ON position; Test with a different power supply if available.
Low airflow	Dust buildup on fans/grilles; Obstruction of airflow	Clean fan grilles and blades; Ensure no objects are blocking the intake or exhaust vents.
Unusual noise from fans	Dust buildup; Fan bearing issue	Clean fans thoroughly; If noise persists, contact PROCOOL support.

## 8. Specifications

Feature	Specification
Panel Size	1U 19" x 1.75" x 2.0" (48.3L x 4.3W x 5.1H cm)
Panel Color/Material	Black / Metal
Number of Fans	3
Fan Size	40mm x 40mm x 20mm
Fan Speed	3200 RPM
Air Flow	18 CFM (Intake)
Noise Level	18 dBA
Bearings	Fluid Dynamic Bearings
Power Supply Input	100-240 VAC
Power Supply Output	12 VDC
Current Draw	0.09A
Power Consumption	1.08W
Grills/Guards	Black Wire
Compatible Devices	Server, Home Theater, AV Cabinet, Broadcast, Network, Recording Studio Racks

## 9. Warranty

The PROCOOL SX340 1U Silent Rack Mount Fan comes with a **3-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please refer to the official PROCOOL website or contact customer support.

## 10. Support

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For technical assistance, troubleshooting beyond this manual, or general inquiries, please contact PROCOOL customer support. Refer to the PROCOOL website for the most current contact information.