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> PROCOOL T2280 / 2U Rack Mount Intake Fan/High Power Cooling System/Data Center Cooling Network Server IT Rack Mount Fan Panel 19" User Manual

PROCOOL T2280

PROCOOL T2280 2U Rack Mount Intake Fan User Manual

Model: T2280

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the PROCOOL T2280 2U Rack Mount Intake Fan. Please read this manual thoroughly before using the product to ensure proper function and safety.

The PROCOOL T2280 is designed to provide high-power cooling for data centers, network servers, and IT rack environments. It is an intake model, meaning it blows air into the rack to facilitate cooling.

2. SAFETY INFORMATION

Observe the following safety precautions to prevent damage to the unit or injury to personnel:

- Ensure the power supply voltage matches the product's requirements (12 Volts).
- Do not block the fan inlets or outlets during operation.
- Disconnect power before performing any maintenance or installation procedures.
- This device is intended for indoor use in controlled environments.
- Keep hands and foreign objects away from moving fan blades.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- PROCOOL T2280 2U Rack Mount Intake Fan Unit
- Power Adapter
- Mounting Screws (Quantity: 4)
- User Manual (This document)



Figure 3.1: PROCool T2280 2U Rack Mount Intake Fan Unit. This image shows the front view of the fan unit with four fans and the PROCool logo in the center.



Figure 3.2: Power Adapter for the PROCOOL T2280. The image displays the power brick and its associated power cables.

4. PRODUCT OVERVIEW

4.1. Key Features

- **Rack Unit Size:** 2U (19-inch standard rack mount)
- **Dimensions:** 19"L x 2.5"W x 3.5"H
- **Airflow:** 336 CFM (Cubic Feet per Minute) - Intake
- **Noise Level:** 61 dBA
- **Voltage:** 12 Volts
- **Wattage:** 36 Watts
- **Material:** Alloy Steel, Metal
- **Compatible Devices:** Server racks, IT cabinets

4.2. Components

The PROCOOL T2280 consists of the following main components:

- **Fan Panel:** The main chassis housing the cooling fans.
- **Cooling Fans:** Multiple high-speed fans for air intake.
- **Power Button/Indicator:** Located on the front panel, typically with an LED indicator.
- **Power Input Jack:** Located on the rear for connecting the power adapter.



Figure 4.1: Front view of the PROCOOL T2280 fan panel, showing the four fan grilles and the central power button/indicator.



Figure 4.2: Rear view of the PROCOOL T2280 fan panel, illustrating the power input and fan wiring connections.

5. SETUP AND INSTALLATION

Follow these steps to properly install the PROCOOL T2280 into your rack system:

1. **Prepare the Rack:** Identify two available 2U rack spaces in your 19-inch server rack where cooling is needed. Ensure adequate clearance for airflow.
2. **Position the Unit:** Carefully slide the PROCOOL T2280 into the chosen rack space. The unit is designed for intake airflow, so position it where air needs to be drawn into the rack.
3. **Secure the Unit:** Align the mounting holes on the fan panel with the corresponding holes on the rack rails. Use the provided mounting screws to secure the unit firmly to the rack. Typically, four screws are used, two on each side.
4. **Connect Power:** Connect the power adapter cable to the power input jack on the rear of the PROCOOL T2280 unit. Then, plug the power adapter into a suitable power outlet (120V AC).



Figure 5.1: The PROCOOL T2280 unit installed within a server rack, demonstrating its 2U form factor and integration.

6. OPERATING INSTRUCTIONS

Once installed, operating the PROCOOL T2280 is straightforward:

1. **Power On:** Press the power button located on the front panel of the unit. The LED indicator on the button will illuminate, and the fans will begin to operate.
2. **Verify Airflow:** Confirm that air is being drawn into the rack through the fan unit. You should feel air moving into the rack if you place your hand near the fan grilles.
3. **Continuous Operation:** The PROCOOL T2280 is designed for continuous operation to maintain optimal cooling within your rack.
4. **Power Off:** To turn off the unit, press the power button again. The LED indicator will turn off, and the fans will stop.

7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your PROCOOL T2280:

- **Dust Removal:** Periodically inspect the fan grilles and blades for dust accumulation. Use a soft brush or compressed air to gently remove dust. Ensure the unit is powered off and unplugged before cleaning.
- **Cable Inspection:** Check all power cables and connections for any signs of wear, damage, or loose connections. Replace damaged cables immediately.
- **Environmental Check:** Ensure the operating environment remains within suitable temperature and humidity ranges for electronic equipment.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Unit does not power on.	No power to the unit.	Check if the power adapter is securely plugged into the unit and the wall outlet. Verify the wall outlet has power. Ensure the power button is pressed.
Fans are not spinning.	Power issue or fan malfunction.	Confirm the unit is powered on (LED indicator lit). Check for any obstructions preventing fan rotation. If individual fans are not spinning, they may require replacement.
Reduced airflow.	Dust accumulation or obstruction.	Clean dust from fan grilles and blades (refer to Maintenance section). Ensure nothing is blocking the intake or exhaust paths.
Unusual noise from unit.	Loose components or fan bearing issue.	Ensure the unit is securely mounted in the rack. Inspect fans for any loose parts or debris. If noise persists, a fan may be failing and require replacement.

9. SPECIFICATIONS

Attribute	Value
Model Number	T2280
Rack Unit Size	2U
Product Dimensions (L x W x H)	19" x 2.5" x 3.5"
Weight	3 Pounds
Airflow	336 CFM (Intake)
Noise Level	61 dBA
Voltage	12 Volts
Wattage	36 Watts
Cooling Method	Air
Compatible Devices	Server Racks, IT Cabinets
Material	Alloy Steel, Metal
Maximum Rotational Speed	5700 RPM
Manufacturer	PROCOOL

10. WARRANTY INFORMATION

PROCOOL products are manufactured to high quality standards. For specific warranty terms and conditions, please refer

to the warranty card included with your product or visit the official PROCOOL website. Keep your purchase receipt as proof of purchase for warranty claims.

11. CUSTOMER SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact PROCOOL customer support. For the most up-to-date contact information, please visit the official PROCOOL website or refer to the contact details provided with your product packaging.

Online Resources: [PROCOOL Amazon Store](#)