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## Cooler Master TD300-KGNN-S00

# User Manual: Cooler Master TD300 Mesh Micro-ATX Tower

Model: TD300-KGNN-S00

Brand: Cooler Master

## INTRODUCTION

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The Cooler Master TD300 Mesh is a compact mini-tower PC case designed for optimal airflow and ease of assembly. It features a unique polygonal mesh front panel for superior dust filtration and high-volume air intake. This chassis is equipped with two pre-installed Sickleflow ARGB 120mm fans and an integrated PWM/ARGB hub for synchronized system lighting and fan control. Its builder-friendly design includes a fully detachable top panel and an adjustable HDD/SSD cage, providing flexibility for various component configurations. The TD300 Mesh supports Micro-ATX and Mini-ITX motherboards, large graphics cards up to 344mm, and extensive cooling solutions including 360mm front and 280mm top radiators, offering a balanced blend of performance and aesthetic appeal.

## PRODUCT FEATURES

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- **Tessellated Mesh Intake:** Front panel constructed with Cooler Master FineMesh technology for excellent dust filtration and high airflow. Includes 2 x 120mm ARGB Sickleflow fans and an integrated PWM/ARGB hub (max. 4 fans).
- **Easy Viewing, Easy Access:** Edge-to-edge tempered glass side panel for showcasing system builds. Fully removable top panel for enhanced access during component assembly, especially for radiator and fan cooling solutions.
- **Compact Cooling:** Designed for front intake airflow with top/rear exhaust. Supports max. 3 x 120mm fans / 1 x 360mm radiator at the front, max 2 x 140mm fans / 1 x 280mm radiator at the top, and 1 x 120mm fan / 120mm radiator at the rear.
- **Micro-ATX Motherboard Capacity:** Accommodates Mini-ITX & Micro-ATX motherboards. Features a repositionable HDD/SSD drive cage under the PSU shroud for extra radiator space or a longer PSU.
- **Internal Clearances:** Supports CPU coolers up to 166mm height, graphics cards up to 344mm length, and power supplies up to 325mm length.

## PACKAGE CONTENTS

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Please verify that all items listed below are present in your package:

- Cooler Master TD300 Mesh Micro-ATX Tower Chassis
- 2 x Pre-installed Sickleflow ARGB 120mm Fans

- Integrated PWM/ARGB Hub
- Accessory Box (screws, zip ties, standoffs, etc.)
- User Manual (this document)

## SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to your system:

- Ensure the power supply is disconnected from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity before handling internal components.
- Handle the tempered glass panel with care. Avoid dropping or striking it against hard surfaces.
- Keep small parts and screws away from children.
- Do not operate the system with the side panel removed unless performing maintenance or troubleshooting.
- Ensure proper ventilation around the case to prevent overheating.

## SETUP GUIDE

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### Component Identification

Familiarize yourself with the key components and features of your Cooler Master TD300 Mesh case.



**Figure 1:** Front view of the Cooler Master TD300 Mesh PC case, highlighting its polygonal mesh design and pre-installed ARGB fans.



Figure 2: Front and rear views of the TD300 Mesh case, showing the I/O panel and rear fan mount.

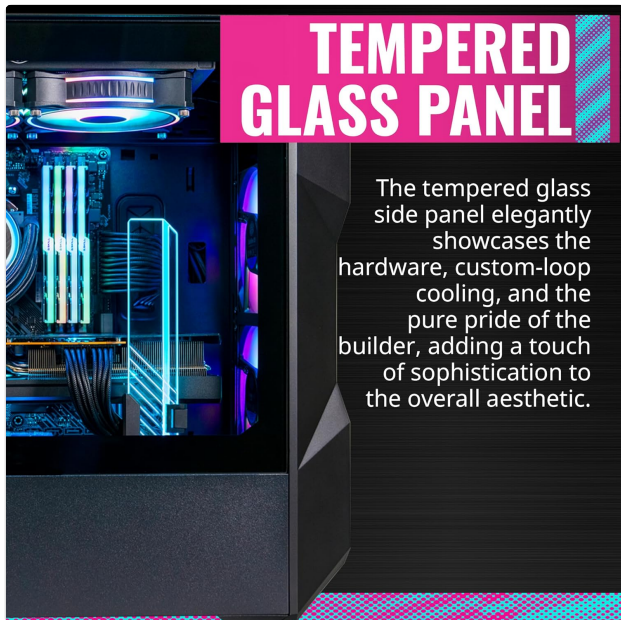
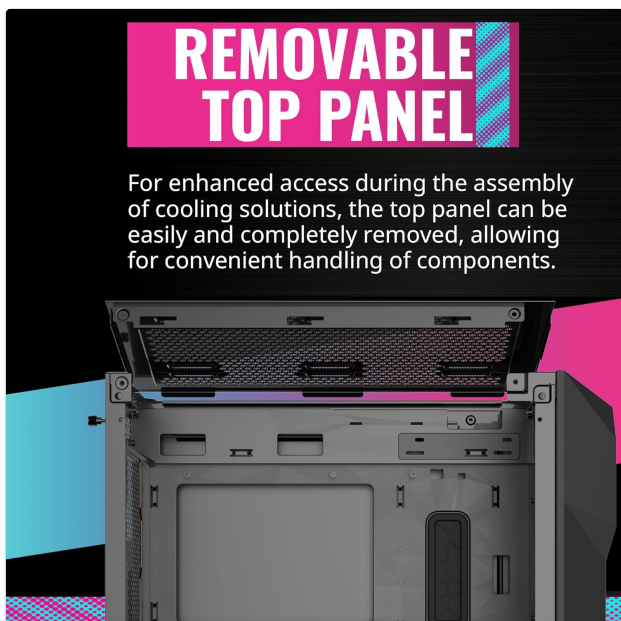
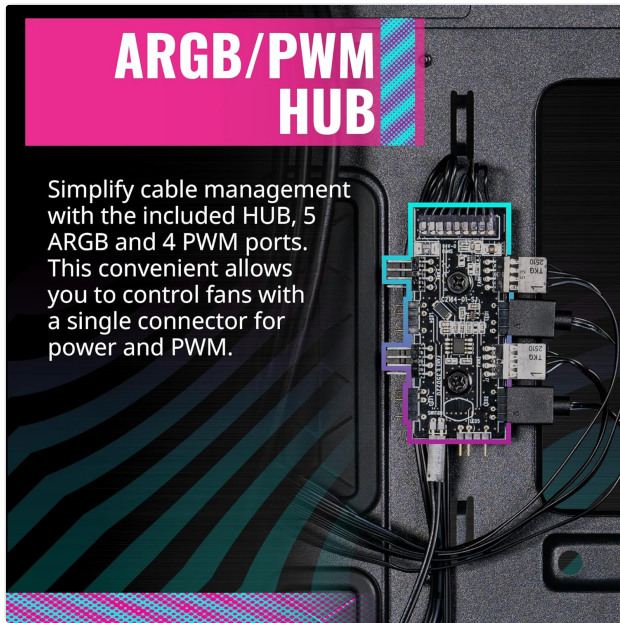


Figure 3: Close-up of the tempered glass side panel, designed to showcase internal components.



For enhanced access during the assembly of cooling solutions, the top panel can be easily and completely removed, allowing for convenient handling of components.

**Figure 4:** The fully removable top panel, providing enhanced access for component installation and maintenance.



**Figure 5:** The integrated ARGB/PWM hub, simplifying cable management and fan control.

## Installation Steps

### 1. Prepare the Case:

Remove the tempered glass side panel by unscrewing the thumb screws and carefully sliding it off. Remove the top panel by unscrewing its retaining screws and lifting it away for easier access during installation.



**Figure 6:** Case interior with the top panel removed, illustrating accessibility.

## 2. Install the Motherboard:

Install the necessary motherboard standoffs into the motherboard tray according to your motherboard's form factor (Mini-ITX or Micro-ATX). Carefully place your motherboard onto the standoffs and secure it with screws. Ensure the I/O shield is properly seated in the rear opening.

# SPACIOUS INTERIOR

Experience a spacious interior that offers abundant room for Micro-ATX or Mini-ITX motherboards, allowing for easy installation, efficient cable management, and future expansion possibilities.

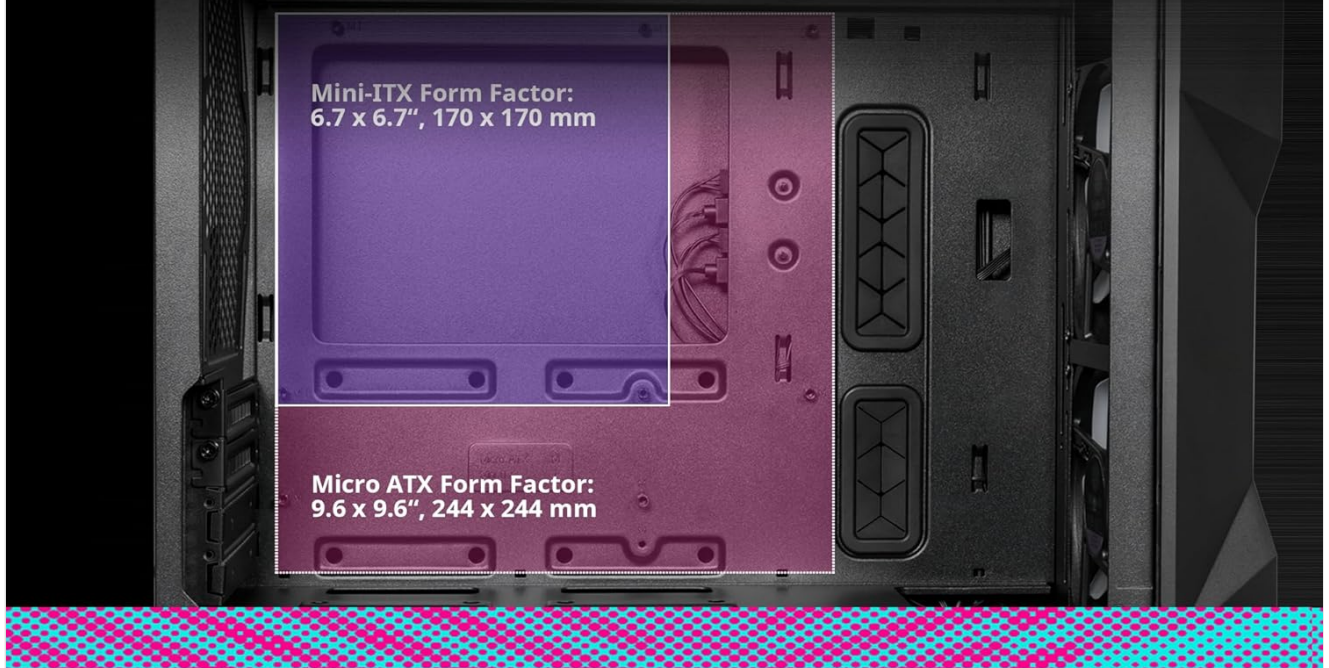


Figure 7: Internal view showing motherboard compatibility for Mini-ITX and Micro-ATX form factors.

### 3. Install the Power Supply (PSU):

Slide your PSU into the dedicated compartment at the bottom rear of the case. Secure it with screws from the rear. Route the necessary cables through the cable management cutouts.

### 4. Install Storage Drives:

Install 2.5" SSDs or 3.5" HDDs into the drive cages or mounting points. The adjustable HDD/SSD cage under the PSU shroud can be repositioned for additional radiator or PSU space if needed.

### 5. Install Graphics Card (GPU) and Expansion Cards:

Remove the necessary PCIe slot covers. Insert your graphics card and other expansion cards into their respective slots on the motherboard and secure them with screws. The case supports GPUs up to 344mm in length.

# COMPONENTS CLEARANCE

This case provides support for CPU coolers with a maximum height of 166mm, accommodates GPU up to 344mm in length, and allows for PSU lengths of up to \*325mm.

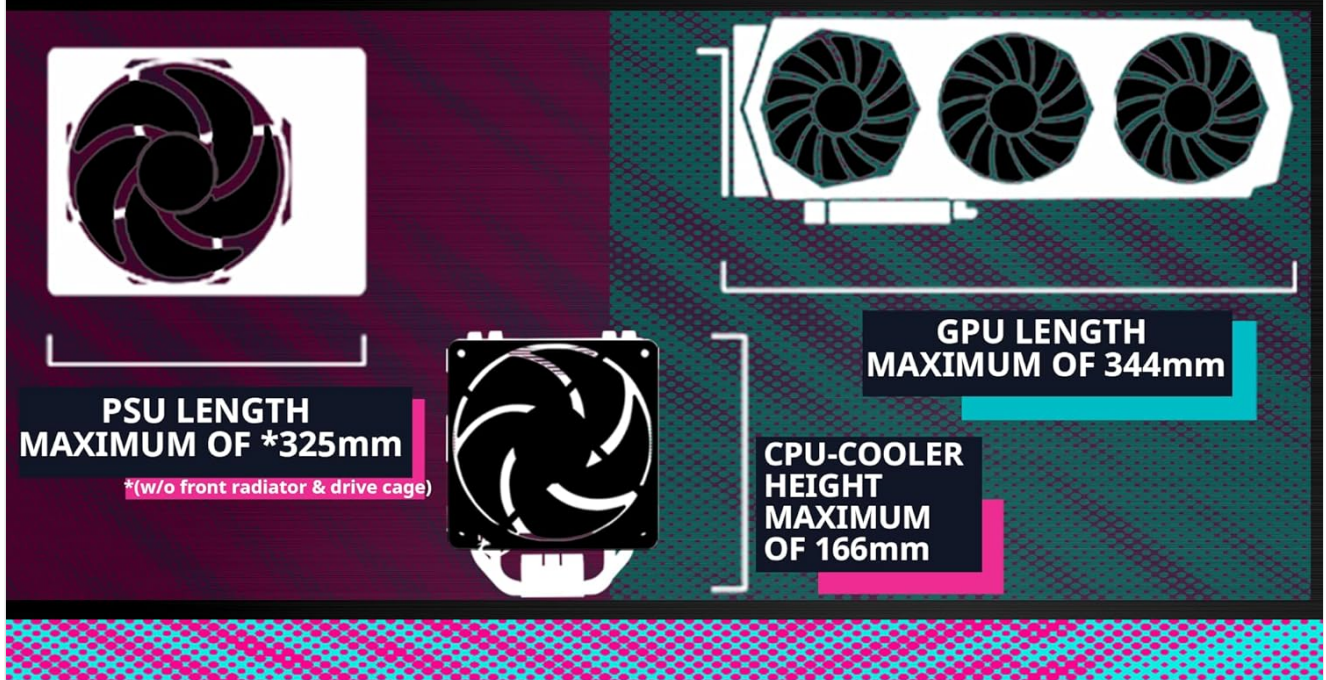


Figure 8: Diagram illustrating maximum clearances for CPU cooler height, GPU length, and PSU length.

## 6. Install CPU Cooler and Radiators:

Install your CPU cooler. The case supports CPU coolers up to 166mm in height. For liquid cooling, install radiators and fans in the front (up to 360mm) or top (up to 280mm) mounts. The removable top panel facilitates top radiator installation.

# VERSATILE COOLING

Enjoy high compatibility for liquid-cooled systems with support for up to six 120 fans and the ability to accommodate a 280mm radiators.

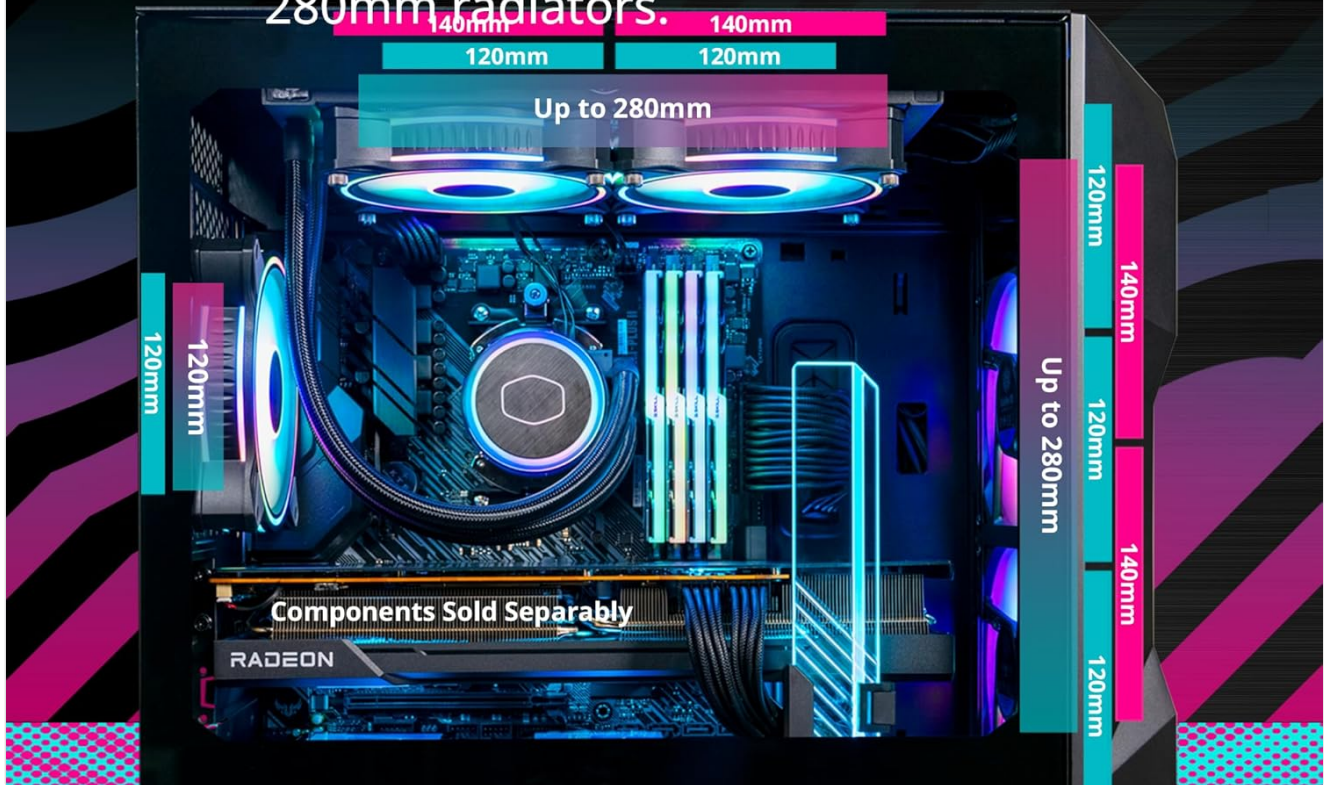


Figure 9: Overview of versatile cooling options, showing fan and radiator support locations and sizes.

## 7. Connect Cables:

Connect all necessary power cables from the PSU to the motherboard, GPU, and storage drives. Connect the front panel I/O cables (USB, audio, power/reset buttons, LED indicators) to the motherboard. Connect the pre-installed ARGB fans and any additional fans to the integrated PWM/ARGB hub, then connect the hub to your motherboard's ARGB and PWM headers.

## 8. Cable Management:

Utilize the cable routing channels and tie-down points behind the motherboard tray to manage cables neatly. This improves airflow and aesthetics.

## 9. Reassemble the Case:

Once all components are installed and cables are managed, reattach the top panel and the tempered glass side panel, securing them with their respective screws.

## OPERATING INSTRUCTIONS

After successful assembly, connect your peripherals (monitor, keyboard, mouse) and power cable to the system. Press the power button on the front panel to start your computer. The pre-installed ARGB fans will illuminate, and their lighting effects can be controlled via your motherboard's ARGB software or the integrated hub's default settings. Fan speeds can be managed through

your motherboard's BIOS/UEFI settings or fan control software, leveraging the PWM functionality of the hub.

## MAINTENANCE

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Regular maintenance helps ensure optimal performance and longevity of your PC case and components.

- **Dust Cleaning:** Periodically clean the dust filters located on the front panel and under the PSU. These filters are designed to be easily removable for cleaning. Use compressed air or a soft brush to remove accumulated dust from fans and internal components.
- **Cable Management Check:** Occasionally check cable routing to ensure no cables are obstructing airflow or fan blades.
- **Fan Inspection:** Inspect fan blades for dust buildup and ensure they are spinning freely without obstruction.
- **Exterior Cleaning:** Wipe the exterior of the case with a soft, damp cloth. Avoid abrasive cleaners or solvents.

## TROUBLESHOOTING

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This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
System does not power on.	Loose power connections; faulty PSU; front panel power switch not connected.	Check all power cables (24-pin, 8-pin CPU, GPU) are securely connected. Ensure PSU is switched on. Verify front panel power switch cable is correctly connected to motherboard.
Fans are not spinning.	Loose fan connections; fan hub not powered; fan settings in BIOS.	Check fan cables are securely connected to the ARGB/PWM hub. Ensure the hub is powered (SATA power). Check motherboard BIOS for fan speed control settings.
ARGB lighting is not working.	Loose ARGB connections; ARGB hub not connected to motherboard; software issue.	Verify ARGB cables are securely connected to the hub and the hub to the motherboard's 3-pin ARGB header. Ensure motherboard ARGB software is installed and configured correctly.
Poor airflow or high temperatures.	Dust buildup on filters/fans; incorrect fan orientation; insufficient cooling.	Clean dust filters and fans. Ensure fans are oriented correctly for optimal intake and exhaust. Consider adding more fans or upgrading cooling solutions if temperatures remain high.

## SPECIFICATIONS

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Feature	Detail
Model Name	MasterBox TD300 Mesh
Item Model Number	TD300-KGNN-S00
Case Type	Mini-Tower
Motherboard Compatibility	Micro ATX, Mini-ITX
Color	Black
Material	Steel, Plastic, Mesh, Tempered Glass
Dimensions (L x W x H)	14.43 x 14.43 x 16.14 inches (366.5 x 366.5 x 410 mm)
Item Weight	12.87 pounds (5.84 kg)
CPU Cooler Clearance	Up to 166mm
GPU Clearance	Up to 344mm
PSU Clearance	Up to 325mm (w/o front radiator & drive cage)
Pre-installed Fans	2 x 120mm Sickleflow ARGB (Front)
Fan Support (Front)	3 x 120mm or 2 x 140mm
Fan Support (Top)	2 x 120mm or 2 x 140mm
Fan Support (Rear)	1 x 120mm
Radiator Support (Front)	120mm, 140mm, 240mm, 280mm, 360mm
Radiator Support (Top)	120mm, 140mm, 240mm, 280mm
Radiator Support (Rear)	120mm
Drive Bays (3.5" HDD)	2 (Combo 3.5"/2.5")
Drive Bays (2.5" SSD)	2 (Dedicated) + 2 (Combo 3.5"/2.5")
I/O Panel	2 x USB 3.2 Gen 1 Type-A, 1 x 3.5mm Audio Jack, 1 x 3.5mm Mic Jack, 1 x ARGB Controller

## WARRANTY AND SUPPORT

Cooler Master products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the official Cooler Master website or the warranty card included with your product. For technical support, troubleshooting assistance, or to inquire about replacement parts, please visit the Cooler Master support portal:

[Cooler Master Support Website](#)

Please have your product model number (TD300-KGNN-S00) and purchase information ready when contacting support.

