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ARCTIC ACPCC00014A

ARCTIC Xtender Full Tower PC Case User Manual

Model: ACPCC00014A

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ARCTIC Xtender Full Tower PC Case. Please read this manual thoroughly before beginning assembly to ensure proper setup and optimal performance. Keep this manual for future reference.



Figure 1: Overview of the ARCTIC Xtender Full Tower PC Case.

2. KEY FEATURES

The ARCTIC Xtender PC Case is designed for high-performance computing, offering extensive cooling capabilities and a clear view of internal components.

- **P14 Pro Reverse A-RGB Fans:** Three side-mounted fans with inverted airflow optimize cooling while showcasing the aesthetic side of the fans.
- **Dual 420 mm Radiator Support:** Accommodates two 420 mm, 360 mm, 280 mm, or 240 mm radiators for advanced liquid cooling solutions.
- **Clear Tempered Glass Panel:** A crystal-clear tempered glass side panel provides an unobstructed view of your PC's internal components and lighting effects.
- **A-RGB PSU Cover:** An integrated glass panel with 24 individually addressable RGB LEDs illuminates the

power supply shroud.

- **Quality of Life Features:** Includes 5 pre-installed A-RGB fans, magnetic dust filters, modular fan rails, a removable HDD cage, SSD vibration dampening, a functional I/O panel, and an accessory box.

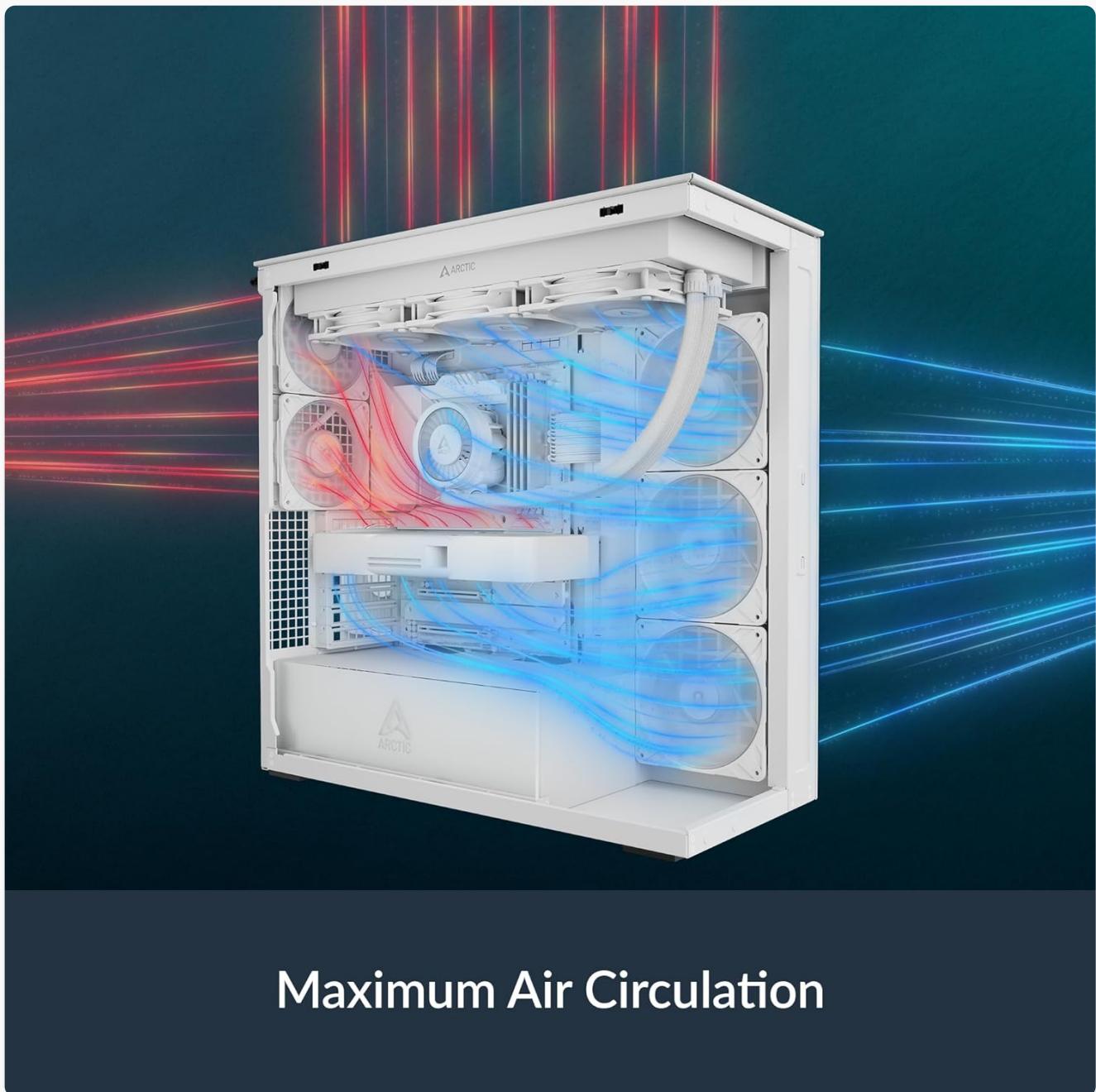
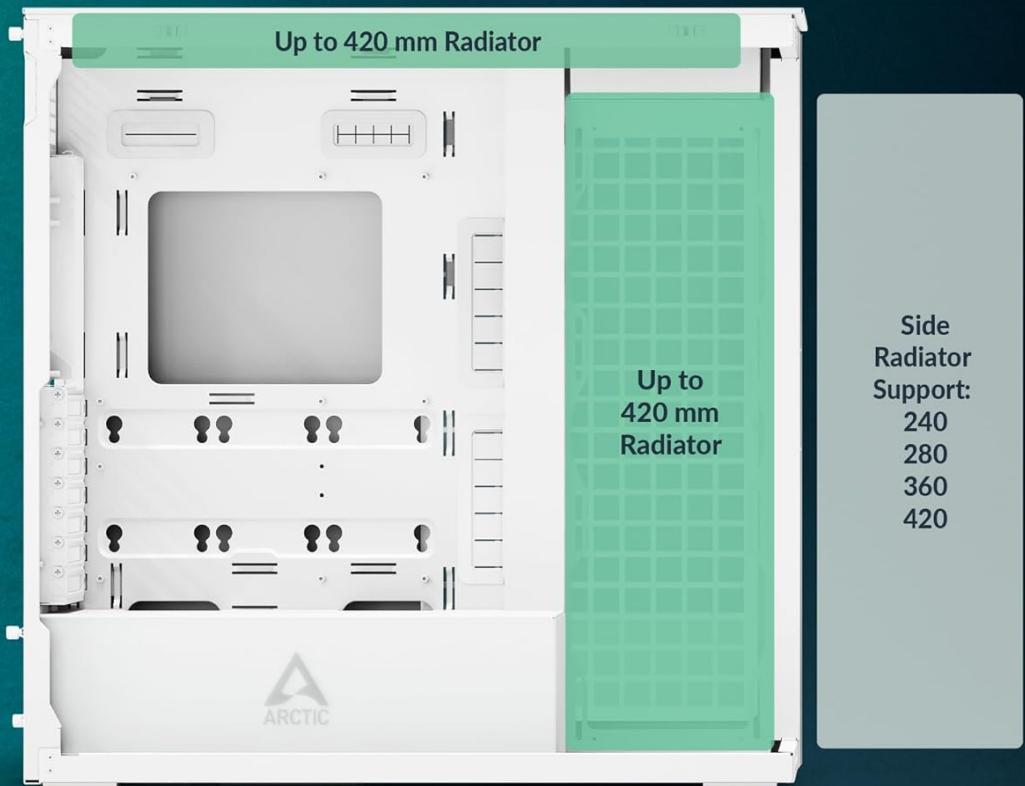


Figure 2: Illustration of optimized airflow for maximum circulation.

Top Radiator Support: 240 | 280 | 360 | 420



Support for Two 420 mm Radiators

Figure 3: Radiator support locations and sizes.

3. SETUP AND INSTALLATION

Follow these steps for assembling your PC components within the ARCTIC Xtender case.

3.1. Preparing the Case

1. Unpack the case and remove all packaging materials.
2. Carefully remove the tempered glass side panel by unscrewing the thumb screws.
3. Locate the accessory box (Figure 4) which contains all necessary screws and mounting hardware.



Includes Accessory Box

Figure 4: Included accessory box with various screws and mounting hardware.

3.2. Motherboard Installation

1. Install the I/O shield into the rear of the case.
2. Align your E-ATX (up to 285mm) or smaller motherboard with the standoffs. Ensure all standoffs match the motherboard's screw holes.
3. Secure the motherboard with the appropriate screws from the accessory box.

3.3. Power Supply Unit (PSU) Installation

1. Mount the PSU into its designated compartment at the bottom rear of the case. The case supports PSUs up to 318mm (200mm with HDD cage installed).
2. Secure the PSU with screws.
3. Connect the necessary power cables to your motherboard and other components.

3.4. Storage Drive Installation

1. For 2.5" SSDs, use the dedicated mounting points behind the motherboard tray.
2. For 3.5" HDDs, install them into the removable HDD cage located in the PSU shroud area.
3. Secure drives with the provided screws.



Figure 5: Locations for 2.5" SSDs and 3.5" HDDs.

3.5. Graphics Card (GPU) Installation

1. Remove the necessary PCIe slot covers at the rear of the case.
2. Insert your GPU into the appropriate PCIe slot on the motherboard. The case supports GPUs up to 482mm (337mm with a side radiator).
3. Secure the GPU with screws.

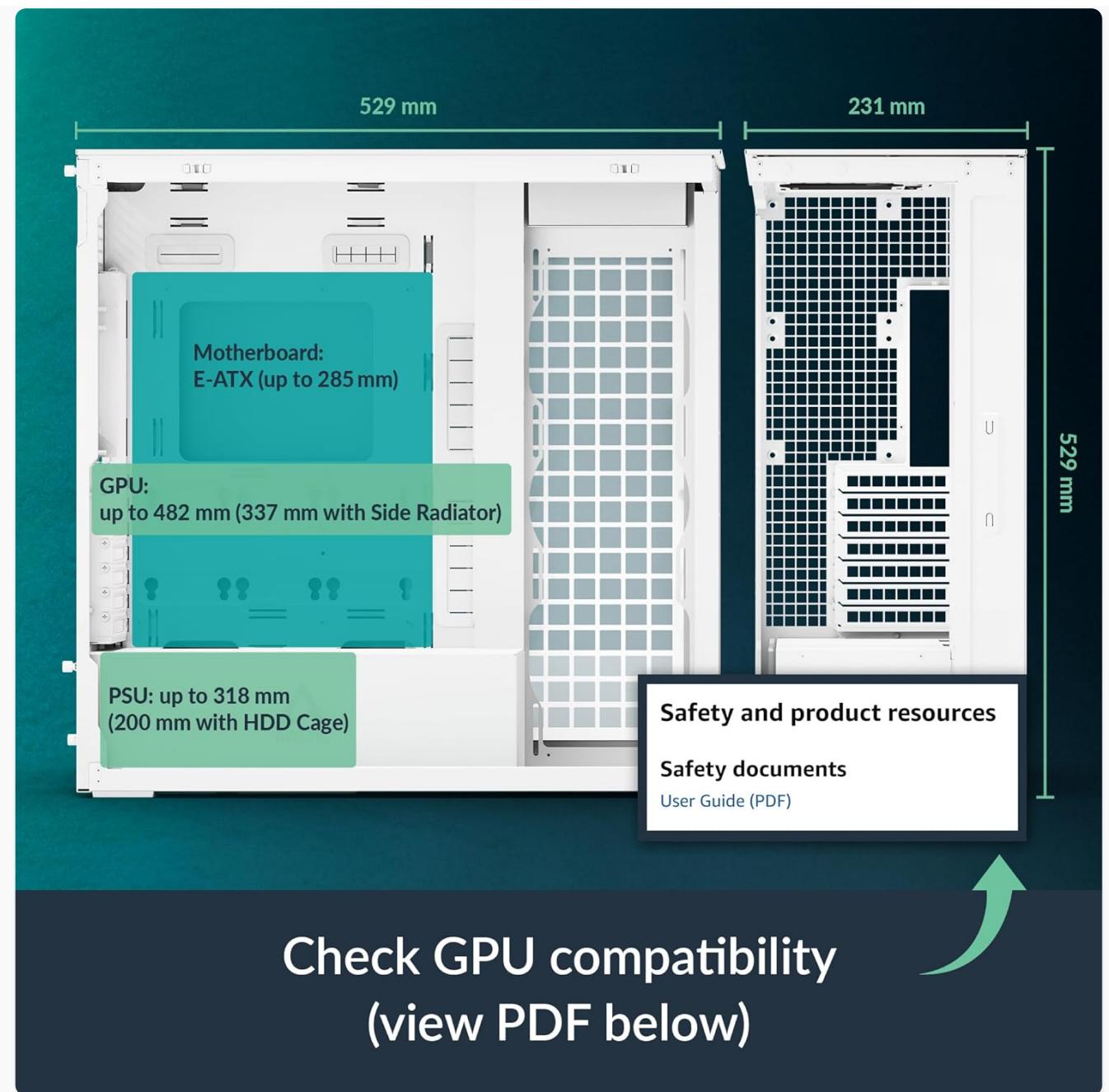


Figure 6: Compatibility dimensions for Motherboard, GPU, and PSU.

3.6. Fan and Radiator Installation

The case comes with 5 pre-installed A-RGB fans. Additional fans or radiators can be installed as follows:

- **Top:** Supports up to 3x 120mm or 3x 140mm fans, or radiators up to 420mm.
- **Side:** Supports up to 3x 120mm or 3x 140mm fans, or radiators up to 420mm.
- **Rear:** Supports 1x 120mm or 1x 140mm fan.

The modular fan rails (Figure 7) allow for flexible fan and radiator placement.



Compatibility for 120 or 140 mm Fans due Removable Fan Rail

Figure 7: Removable fan rail for versatile fan mounting.

3.7. Cable Management

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

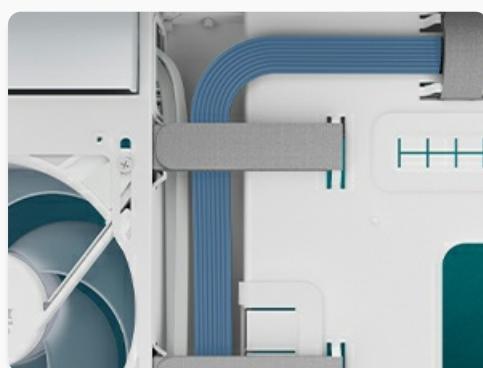


Figure 8: Cable routing channels for organized wiring.

3.8. Connecting Front I/O Panel

Connect the front I/O panel cables (USB 3.0, USB-C, HD Audio, Power, Reset) to the corresponding headers on your motherboard.

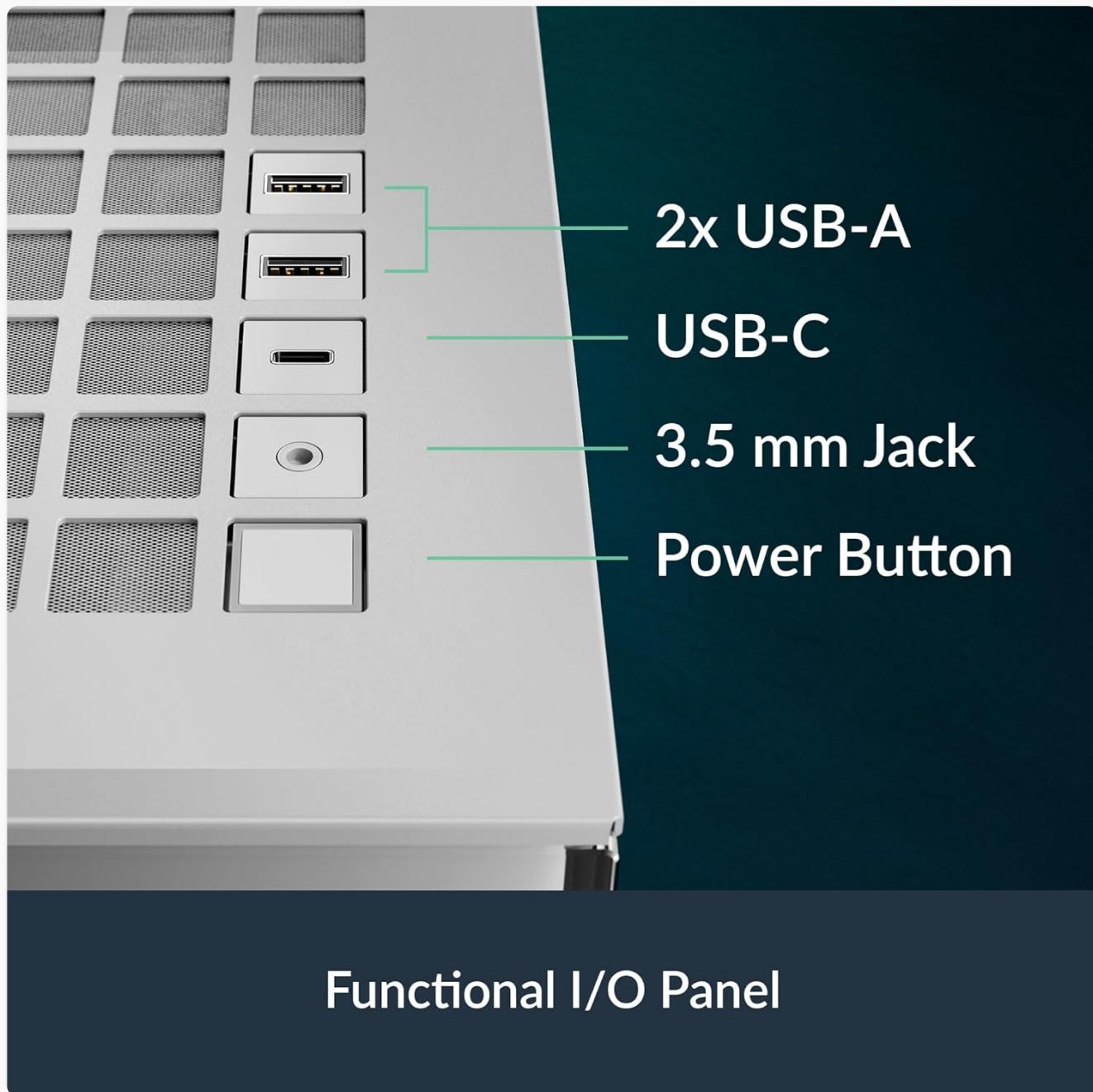


Figure 9: Front I/O Panel connections.

4. OPERATING INSTRUCTIONS

4.1. Powering On

Once all components are installed and cables are connected, press the power button on the front I/O panel to start your system.

4.2. A-RGB Lighting Control

The pre-installed A-RGB fans and PSU cover are compatible with most motherboard A-RGB software (e.g., ASUS Aura Sync, MSI Mystic Light Sync, GIGABYTE RGB Fusion, ASRock Polychrome Sync). Connect the A-RGB cables to your motherboard's 5V 3-pin A-RGB header and use the motherboard software to customize lighting effects.



A-RGB PSU Cover

Figure 10: A-RGB illuminated PSU cover.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your PC components.

5.1. Cleaning Dust Filters

The ARCTIC Xtender case features magnetic mesh filters (Figure 11) on the top and bottom. Regularly remove and clean these filters to prevent dust buildup and maintain good airflow.

1. Gently pull off the magnetic filters.
2. Clean them with a soft brush or rinse with water. Ensure they are completely dry before reattaching.



Magnetic Mesh Filters

Figure 11: Magnetic mesh filters for easy cleaning.

5.2. General Cleaning

Use a soft, dry cloth to wipe down the exterior of the case. For the tempered glass panel, use a glass cleaner and a microfiber cloth to avoid streaks.

6. TROUBLESHOOTING

If you encounter issues, refer to the following common solutions:

- **System not powering on:** Check all power connections, including the 24-pin ATX, 8-pin CPU, and GPU power cables. Ensure the PSU switch is in the 'ON' position. Verify front panel power button connections to the motherboard.
- **Fans not spinning or A-RGB not working:** Confirm that all fan and A-RGB cables are securely connected to the motherboard or a dedicated controller. Check motherboard software settings for A-RGB control.
- **Overheating:** Ensure all fans are spinning correctly and are oriented for optimal airflow. Clean dust filters. Verify proper installation of CPU cooler and thermal paste.

- **No display output:** Ensure the graphics card is properly seated in its PCIe slot and power cables are connected. Check that the monitor cable is connected to the graphics card, not the motherboard's integrated graphics port (unless using integrated graphics).

7. SPECIFICATIONS

Feature	Specification
Model Name	ACPCC00014A
Case Type	Full Tower
Motherboard Compatibility	E-ATX (up to 285mm), ATX, Micro-ATX, Mini-ITX
Dimensions (LxWxH)	20.83 x 9.09 x 20.83 inches (529 x 231 x 529 mm)
Item Weight	33.9 pounds (15.4 kg)
Material	Metal, Tempered Glass
GPU Clearance	Up to 482 mm (337 mm with Side Radiator)
PSU Clearance	Up to 318 mm (200 mm with HDD Cage)
Radiator Support (Top)	120mm, 140mm, 240mm, 280mm, 360mm, 420mm
Radiator Support (Side)	120mm, 140mm, 240mm, 280mm, 360mm, 420mm
Fan Support (Top)	3x 120mm or 3x 140mm
Fan Support (Side)	3x 120mm or 3x 140mm (P14 Pro Reverse A-RGB pre-installed)
Fan Support (Rear)	1x 120mm or 1x 140mm (P12 Pro A-RGB pre-installed)
Pre-installed Fans	5x A-RGB Fans (3x P14 Pro Reverse, 2x P12 Pro)
Drive Bays	2.5" SSD, 3.5" HDD (removable cage)
Front I/O Ports	2x USB-A, 1x USB-C, 1x 3.5mm Audio Jack, Power Button
Cooling Method	Air
Color	White

8. WARRANTY AND SUPPORT

ARCTIC products are covered by a manufacturer's warranty. For detailed warranty information, product registration, and technical support, please visit the official ARCTIC website or contact their customer service directly.

ARCTIC Support: www.arctic.ac/en/support

