Alphacool 15473

Alphacool Core Distro Plate 240 Left with VPP/D5 Pump Mount User Manual

Model: **15473** | Brand: **Alphacool**

1. INTRODUCTION

The Alphacool Core Distro Plate 240 Left is designed to simplify the planning, construction, and maintenance of complex water cooling circuits in high-performance systems. This component integrates multiple connection points and a pump mount into a single, compact unit, optimizing coolant flow and aesthetics. It features a transparent acrylic construction with integrated digitally addressable aRGB lighting.

Figure 1: Alphacool Core Distro Plate 240 Left with VPP/D5 Pump Mount, showcasing its transparent design and integrated pump mount.

2. PACKAGE CONTENTS

Before beginning installation, please verify that all components are present and undamaged. The package should contain the following items:

- Alphacool Core Distro Plate 240 Left
- Mounting hardware (screws, standoffs, washers)
- G1/4" connection plugs (if applicable)
- aRGB connection cable

Figure 2: Included accessories and mounting hardware, typically comprising screws, washers, and an aRGB cable.

3. SETUP AND INSTALLATION

This section outlines the steps for installing your Alphacool Core Distro Plate. Ensure your system is powered off and disconnected from the mains before proceeding.

3.1 Mounting the Distro Plate

The Core Distro Plate can be mounted either directly onto a radiator or to a compatible case panel. It is designed with ports on the left and the pump mount on the right. Use the provided mounting hardware to secure the plate firmly.

1. Identify the desired mounting location (radiator or case panel).
2. Align the mounting holes on the distro plate with the corresponding holes on the radiator or panel.
3. Secure the distro plate using the appropriate screws and standoffs. Do not overtighten.
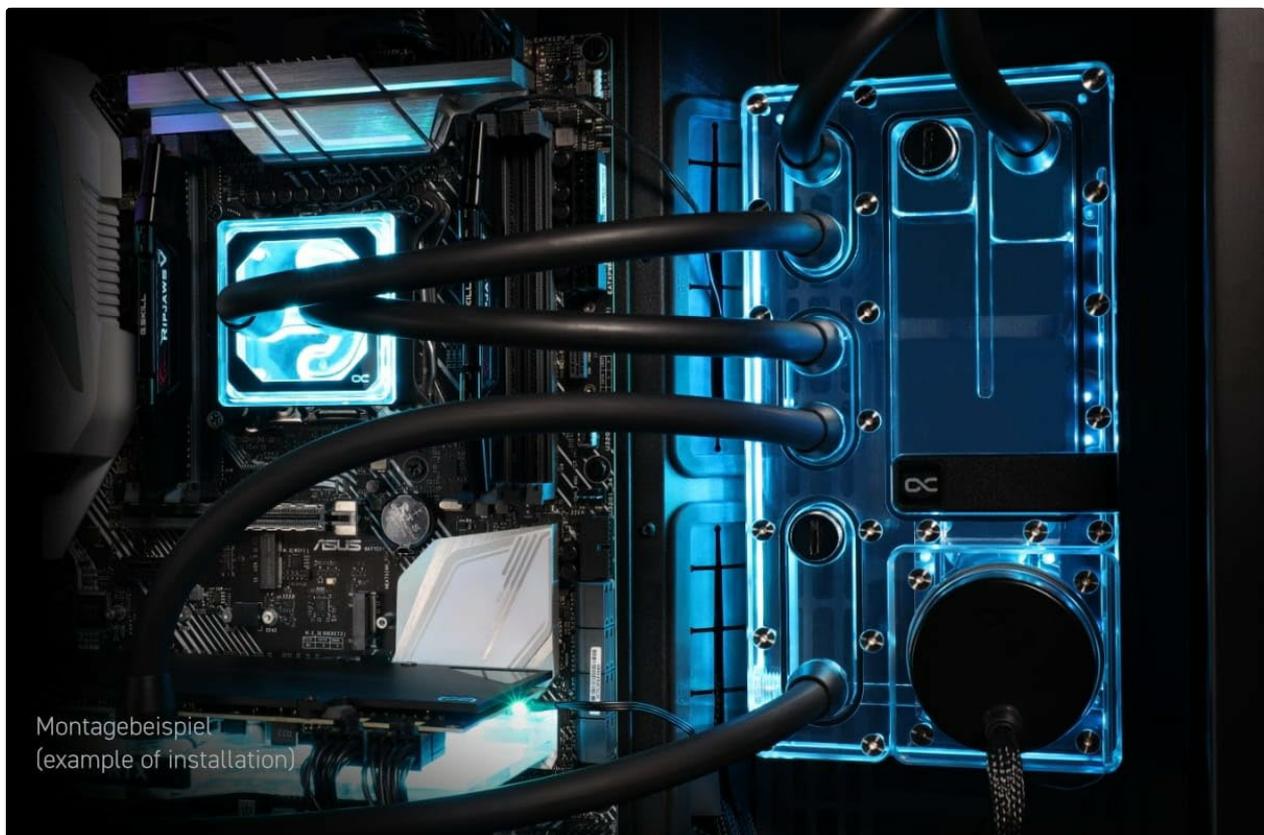
Figure 3: Example installation of the distro plate within a PC chassis, showing tubing connections to other water cooling components.

3.2 Pump Installation

The distro plate is compatible with D5 and VPP pumps. Ensure your pump is correctly seated and secured to the designated pump mount area on the distro plate.

1. Carefully align your D5 or VPP pump with the pump mount on the distro plate.
2. Secure the pump using the appropriate mounting ring and screws (typically supplied with the pump or distro plate).
3. Ensure the pump's inlet and outlet align with the distro plate's channels.

3.3 Connecting Fittings and Tubing

The distro plate features chrome-plated, brass G1/4" connections. These connections are embedded and secured with O-rings to prevent leaks. Use high-quality G1/4" fittings appropriate for your tubing type (hardline or softline).

1. Screw G1/4" fittings into the desired ports on the distro plate. Hand-tighten firmly, but do not overtighten.
2. Connect your tubing to the fittings, ensuring a secure and leak-free seal.
3. Plan your loop carefully, utilizing the multiple ports for optimal flow.
4. Identify the drain port for future maintenance.

3.4 aRGB Lighting Connection

The integrated digitally addressable aRGB lighting requires a 3-pin JST connector and a 3-pin 5V power connection. It can be controlled via a compatible motherboard header or an external aRGB controller (e.g., Alphacool Aurora Eiscontrol).

1. Connect the aRGB cable from the distro plate to an available 3-pin 5V aRGB header on your motherboard or a dedicated aRGB controller.
2. Ensure correct polarity to prevent damage.

Figure 4: The distro plate illuminated with digitally addressable RGB lighting, demonstrating color capabilities.

4. OPERATING INSTRUCTIONS

Once the distro plate and entire water cooling loop are installed, follow these steps to prepare your system for operation.

4.1 Filling the Loop

1. Ensure all fittings are securely tightened.
2. Fill the distro plate reservoir with a high-quality, purpose-made coolant for PC water cooling.
3. With the system still powered off, connect only the pump to a power source (e.g., a dedicated PSU or a PSU jumper).
4. Briefly power on the pump to circulate coolant and fill the loop. Monitor coolant levels in the distro plate and refill as necessary.
5. Repeat this process until the loop is full and all air bubbles are purged. Gently tilting the case can help dislodge trapped air.

4.2 Leak Testing

Before powering on your computer, it is crucial to perform a thorough leak test.

1. After filling the loop, run the pump continuously for at least 12-24 hours with the rest of the system powered off.
2. Inspect all fittings, tubing, and components for any signs of leaks. Place paper towels or absorbent material under potential leak points for easier detection.
3. If a leak is detected, immediately power off the pump, drain the loop, and re-secure the leaking component. Repeat the leak test.

4.3 aRGB Lighting Control

Once the system is operational, you can control the integrated aRGB lighting using your motherboard's software (if connected to a motherboard header) or your external aRGB controller's interface. Refer to your motherboard or controller manual for specific instructions on changing colors, effects, and brightness.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your water cooling system.

- **Coolant Replacement:** It is recommended to replace the coolant every 6-12 months, depending on the coolant type and usage.
- **System Flush:** When replacing coolant, consider flushing the entire loop with distilled water or a dedicated cleaning solution to remove any buildup or contaminants.
- **Component Inspection:** Periodically inspect the distro plate, pump, and other components for any signs of wear, discoloration, or leaks.
- **Drain Port:** Utilize the dedicated drain port on the distro plate to facilitate easy draining of the coolant during maintenance.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your distro plate.

- **Leaks:**
  - Ensure all fittings are securely tightened.
  - Check O-rings on fittings and connections for damage or improper seating.
  - Verify that the embedded G1/4" connections are properly seated.

- **Pump Not Operating:**
  - Check pump power connection.
  - Ensure the pump is correctly seated in the mount.
  - Verify pump functionality independently if possible.

- **aRGB Lighting Not Working:**
  - Check the aRGB cable connection to the motherboard or controller.
  - Ensure correct 3-pin 5V header is used (not 4-pin 12V RGB).
  - Verify software settings for aRGB control.

- **Poor Flow/Performance:**
  - Ensure the loop is fully bled of air.
  - Check for kinks in soft tubing or obstructions in hard tubing.
  - Verify pump speed settings.

7. SPECIFICATIONS

Detailed technical specifications for the Alphacool Core Distro Plate 240 Left:

| Dimensions (L x W x H) | 240 x 125 x 68.80 mm (9.45"L x 4.92"W x 2.71"H) |

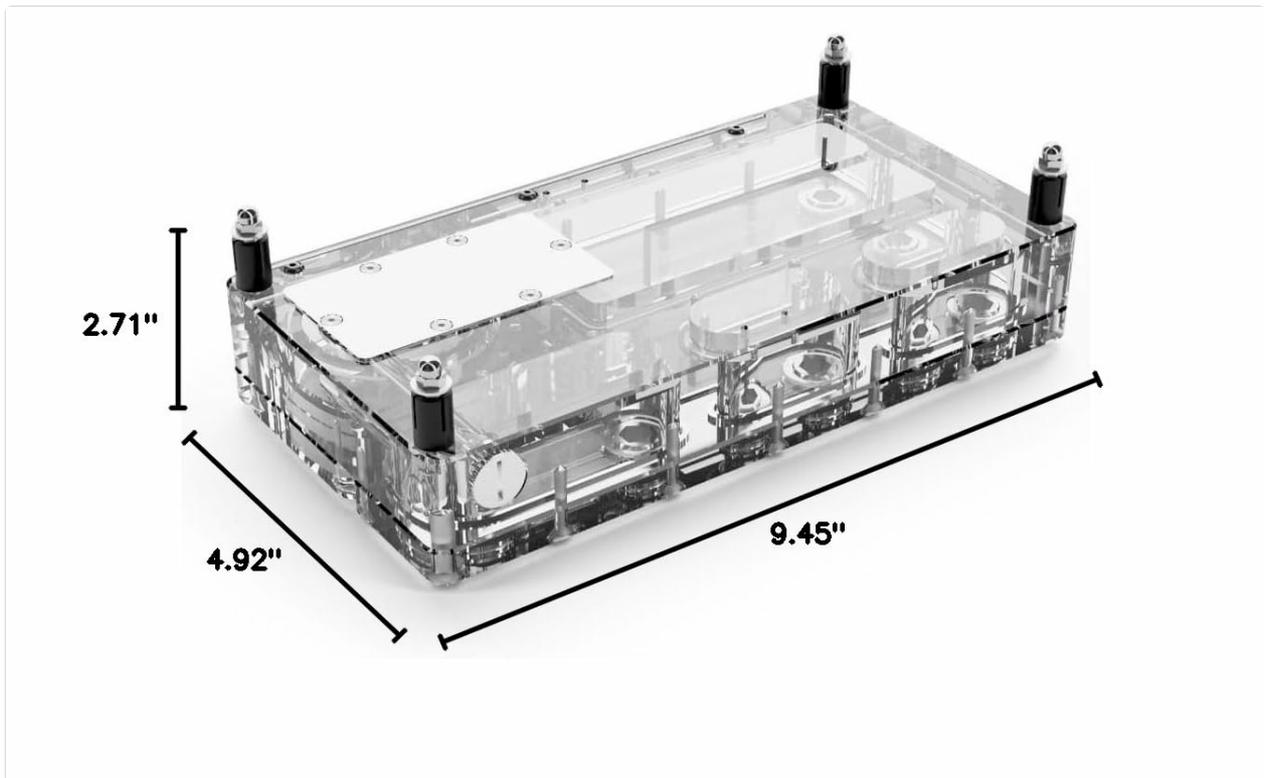| Material	Acrylic
Volume	164 ml
Pump Compatibility	D5 / VPP
Connections	8x G1/4" internal thread, 1x drain port
Maximum Working Temperature	60°C
Pressure Tested	0.8 bars
Digital aRGB LEDs	12 LEDs
Voltage Digital aRGB LEDs	5V
Power Connection Digital aRGB LEDs	3-pin JST + 3-pin 5V
Model Number	15473

Figure 5: Dimensional drawing of the Alphacool Core Distro Plate, showing its length, width, and height measurements.

8. WARRANTY INFORMATION

The Alphacool Core Distro Plate 240 Left with VPP/D5 Pump Mount is covered by a **one-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, accidents, modifications, or unauthorized repairs. Please retain your proof of purchase for warranty claims.

9. SUPPORT

For technical assistance, troubleshooting, or warranty inquiries, please contact Alphacool customer support. You can find more information and contact details on the official Alphacool website:

Visit Alphacool's Official Website

Please have your product model number (15473) and proof of purchase ready when contacting support.