

Alphacool 14485

Alphacool Eiswolf 2 AIO GPU Cooler & Backplate for RTX 4090 Founders Edition

Model: 14485

1. INTRODUCTION

The Alphacool Eiswolf 2 is a full-cover All-In-One (AIO) liquid cooling solution specifically designed for the NVIDIA GeForce RTX 4090 Founders Edition graphics card. This unit integrates an Alphacool GPX Eisblock Aurora GPX water cooler, a pump unit, and a 360mm NexXoS ST30 full copper radiator. It provides comprehensive cooling for the GPU, graphics memory, voltage converters, and other critical components requiring active thermal management.

The integrated pump unit houses the DC-LT 2 pump, an improved and quieter version of the DC-LT Low Noise Ceramic Pump, ensuring efficient coolant circulation with minimal acoustic output. The full copper radiator from the NexXoS series offers superior heat dissipation compared to aluminum alternatives, contributing to optimal cooling performance.

2. SAFETY INFORMATION

- **Read Instructions:** Carefully read and understand all instructions before installation and operation.
- **Professional Installation Recommended:** Installation of liquid cooling components requires technical proficiency. If unsure, seek professional assistance.
- **Power Disconnection:** Always disconnect power from your computer before installing, removing, or performing maintenance on any components.
- **Leak Testing:** Thoroughly leak test the system for at least 24 hours before powering on your computer. Use a dedicated leak tester or run the pump with the system powered off.
- **Coolant Compatibility:** Use only approved coolants. Mixing incompatible coolants can lead to corrosion and system damage.
- **Component Handling:** Handle all components with care to prevent damage. Avoid touching electrical contacts.
- **Environmental Conditions:** Operate the system in a clean, dry environment. Avoid extreme temperatures and humidity.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

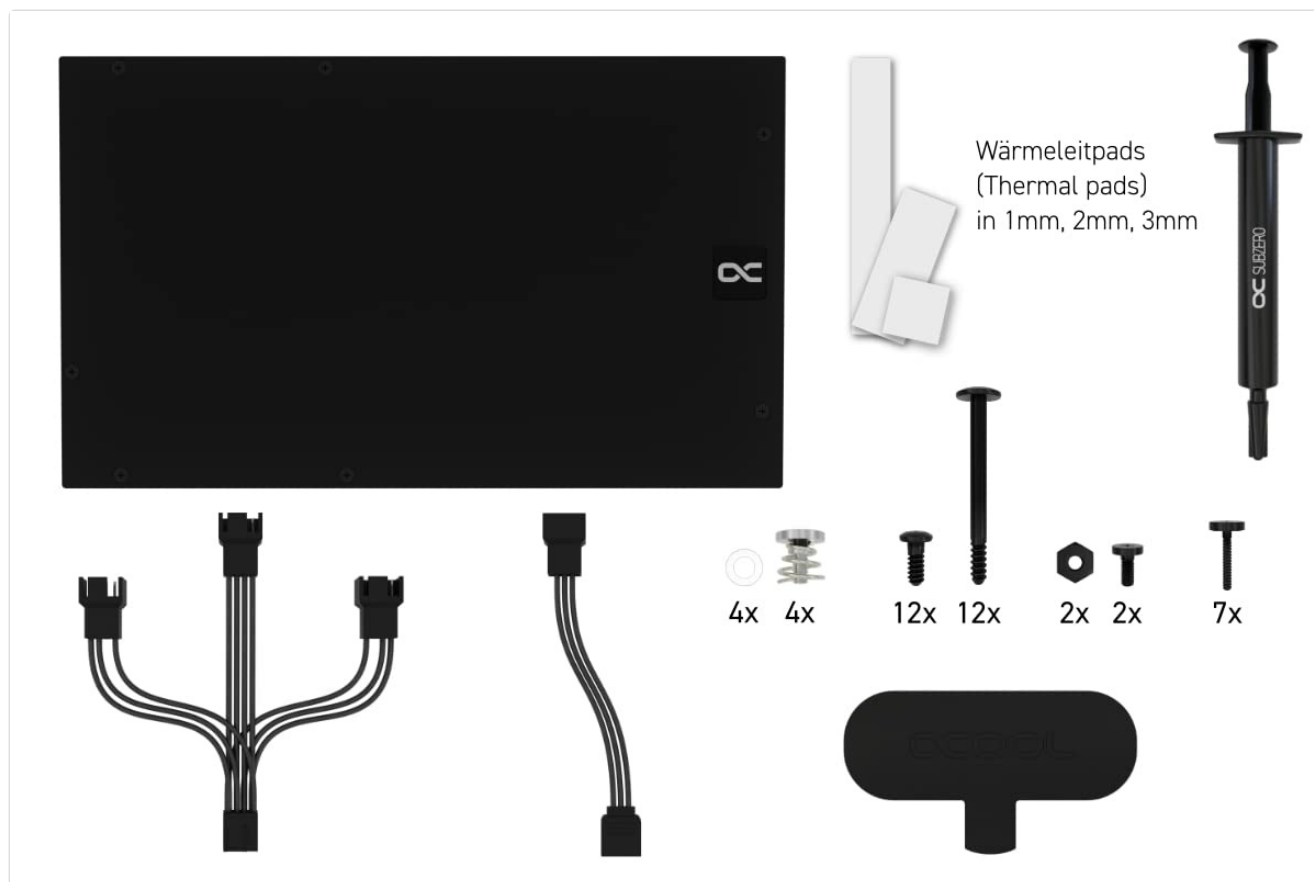


Image: Overview of the Alphacool Eiswolf 2 AIO GPU Cooler's included accessories, including thermal pads, mounting screws, and cables.

- Alphacool Eiswolf 2 AIO GPU Cooler (pre-filled with coolant)
- Backplate
- 360mm NexXoS ST30 Full Copper Radiator with Alphacool Aurora Rise Digital RGB Fans
- Mounting hardware for NVIDIA GeForce RTX 4090 Founders Edition
- Thermal pads (various thicknesses: 1mm, 2mm, 3mm)
- Thermal paste
- Fan splitter cables
- RGB controller/cables (if applicable)

4. SETUP AND INSTALLATION

This section provides a general overview. Refer to the detailed graphical instructions provided with your product for specific steps.

4.1. Preparation

1. Ensure your system is powered off and unplugged.
2. Carefully remove your NVIDIA GeForce RTX 4090 Founders Edition graphics card from your PC.
3. Disassemble the stock cooler from the graphics card, following the manufacturer's guidelines. Clean the GPU die and memory chips of any residual thermal paste.

4.2. Installing the Water Block

1. Apply thermal paste to the GPU die.
2. Place the appropriate thermal pads on the memory modules and VRM components as indicated in the detailed manual.
3. Carefully align and mount the Alphacool Eisblock Aurora GPX water cooler onto the graphics card. Secure it with the provided screws, ensuring even pressure.

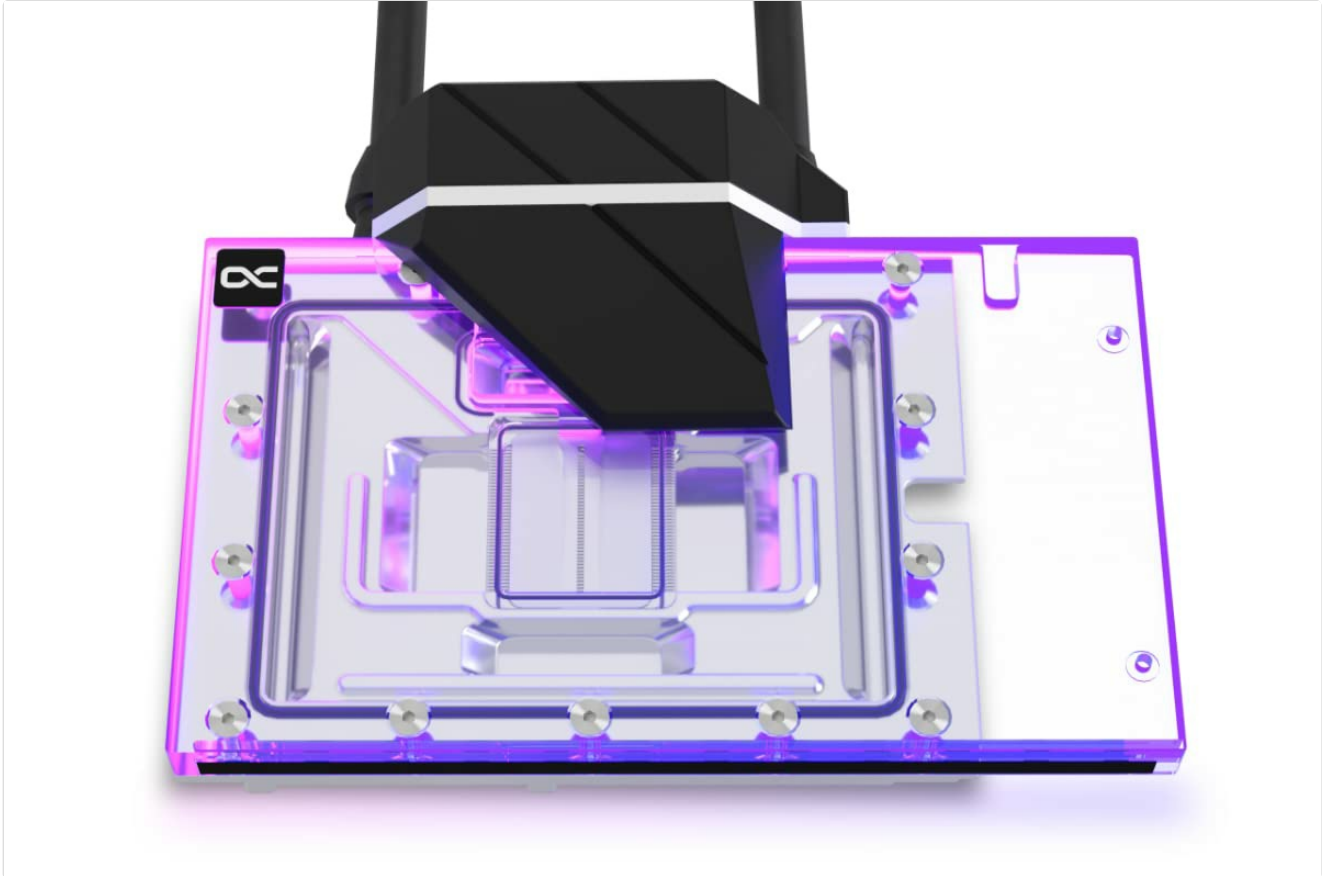


Image: Detailed view of the Alphacool Eiswolf 2 GPU water block, showing the clear acrylic top and internal cooling channels.

4.3. Installing the Backplate

1. Place thermal pads on the back of the PCB where specified.
2. Mount the backplate onto the graphics card assembly and secure it with the designated screws.

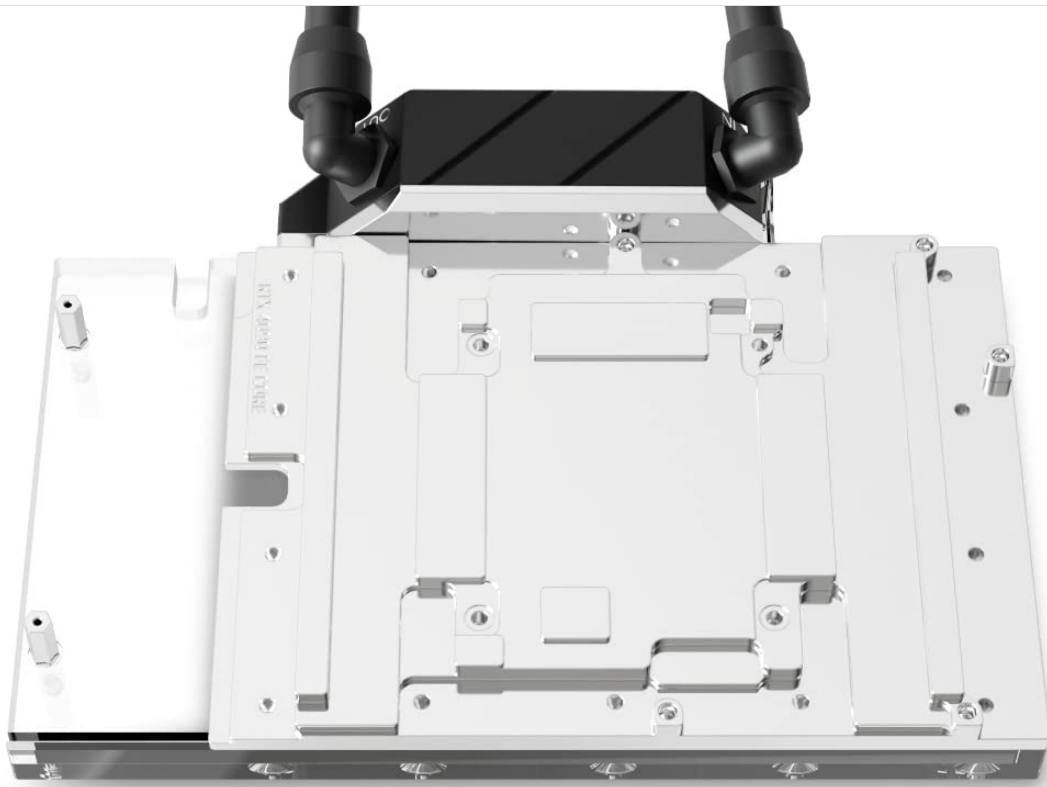


Image: The Alphacool Eiswolf 2 backplate, designed to cover and cool the rear of the graphics card PCB.

4.4. Radiator and Fan Installation

1. Mount the 360mm radiator and its three fans into an available 360mm fan mount location within your PC case. Ensure proper airflow direction.
2. Connect the fan cables to the provided splitter and then to an appropriate fan header on your motherboard or fan controller.
3. Connect any RGB cables from the fans and water block to your motherboard's RGB header or a dedicated RGB controller.



Image: The complete Alphacool Eiswolf 2 AIO GPU Cooler system, featuring the GPU block connected to a 360mm radiator with three illuminated fans.

4.5. Final Assembly and Leak Test

1. Install the assembled graphics card back into your PC's PCIe slot.
2. Connect the pump's 3-pin power connector to a suitable fan header (e.g., AIO_PUMP or CPU_FAN) on your motherboard.
3. Perform a thorough leak test. Power on the pump (without powering on the rest of the system) and inspect all connections for any signs of leakage. Allow the system to run for at least 24 hours during the leak test.
4. Once leak testing is complete and no leaks are detected, power on your system.

5. OPERATING INSTRUCTIONS

The Alphacool Eiswolf 2 operates automatically once installed and powered. The DC-LT 2 pump continuously circulates coolant through the system, transferring heat from the GPU to the radiator, where it is dissipated by the fans.

- **Monitoring:** Use system monitoring software to observe GPU temperatures and fan speeds. Ensure temperatures remain within safe operating limits during load.
- **Fan Control:** Adjust fan curves in your motherboard's BIOS/UEFI or through software to balance cooling performance and noise levels.
- **RGB Control:** If connected, manage the Digital RGB lighting effects using your motherboard's RGB software or a compatible controller.

6. MAINTENANCE

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

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fans using compressed air. Ensure fans are held stationary during cleaning to prevent damage.
- **Visual Inspection:** Regularly inspect tubing, fittings, and the water block for any signs of leaks, kinks, or coolant discoloration.
- **Coolant Replacement:** While AIOs are generally maintenance-free regarding coolant, if the system is opened for modification or repair, use only compatible liquid cooling fluids.

7. TROUBLESHOOTING

- **High GPU Temperatures:**
 - Check fan operation: Ensure all radiator fans are spinning correctly and are connected.
 - Verify pump operation: Listen for pump noise or check monitoring software to confirm the pump is running.
 - Inspect thermal paste/pads: Ensure proper application and contact between the water block and GPU/components.
 - Radiator airflow: Ensure the radiator is not obstructed by dust or other components.
- **No RGB Lighting:**
 - Check RGB cable connections to the motherboard or controller.
 - Ensure RGB software is installed and configured correctly.
- **Unusual Noises:**
 - Fan noise: Check for obstructions or loose fan blades.
 - Pump noise: A slight hum is normal. Excessive noise might indicate air in the loop (which should settle over time) or a faulty pump.
- **Leaks:**
 - Immediately power off the system and disconnect power.
 - Identify the source of the leak.
 - Contact Alphacool support for assistance. Do not attempt to repair without guidance.

8. SPECIFICATIONS

Feature	Specification
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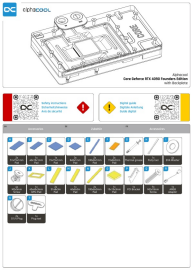
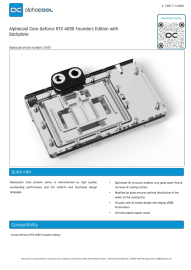
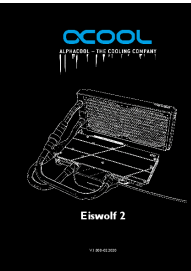
Model Number	14485
Compatibility	NVIDIA GeForce RTX 4090 Founders Edition
Radiator Size	360mm
Radiator Material	Full Copper (NexXoS ST30)
Pump Type	DC-LT 2 Low Noise Ceramic Pump
Power Connector Type	3-Pin (Pump)
Voltage	12 Volts
Cooling Method	Liquid (Water)
Maximum Rotational Speed (Fans)	2500 RPM


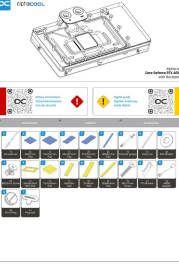

9. WARRANTY AND SUPPORT

Alphacool products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the official Alphacool website or contact your retailer.

Keep your proof of purchase for warranty claims.

Related Documents - 14485

	<p>Alphacool Core GeForce RTX 4090 Founders Edition with Backplate Installation Manual</p> <p>Detailed installation guide for the Alphacool Core GeForce RTX 4090 Founders Edition water cooling block with backplate. Includes compatibility checks, parts list, and step-by-step assembly instructions.</p>
	<p>Alphacool Core GeForce RTX 4090 Founders Edition Water Block with Backplate</p> <p>Detailed information on the Alphacool Core GeForce RTX 4090 Founders Edition water block and backplate, including specifications, scope of delivery, and technical data.</p>
	<p>Alphacool Eiswolf 2 All-In-One GPU Cooler Manual</p> <p>Installation guide, safety instructions, technical specifications, and warranty information for the Alphacool Eiswolf 2 All-In-One GPU cooler.</p>

 <p>Alphacool Eisblock Aurora Acryl GPX-N RTX 4090 Founders Edition with Backplate</p> <p>Water Cooling</p> <p>Technical specifications, scope of delivery, and compatibility.</p>	<p>Alphacool Eisblock Aurora Acryl GPX-N RTX 4090 Founders Edition with Backplate - Water Cooling</p> <p>Detailed information on the Alphacool Eisblock Aurora water cooler for the NVIDIA GeForce RTX 4090 Founders Edition, featuring an acrylic design, chrome-plated copper construction, and digital aRGB illumination. Includes technical specifications, scope of delivery, and compatibility.</p>
 <p>Alphacool Core GeForce RTX 4090 Reference Design with Backplate Installation Guide</p> <p>Installation Guide</p> <p>Step-by-step instructions for installing the Alphacool Core GeForce RTX 4090 Reference Design water cooling block with backplate.</p>	<p>Alphacool Core GeForce RTX 4090 Reference Design with Backplate Installation Guide</p> <p>This guide provides step-by-step instructions for installing the Alphacool Core GeForce RTX 4090 Reference Design water cooling block with backplate. It covers compatibility checks, preparation of the graphics card, and the assembly process.</p>
 <p>Alphacool Eiswolf 2 AIO 360mm RTX 4090 Aorus Master: Ultimate GPU Cooling</p> <p>Water Cooling</p> <p>Detailed specifications and features of the Alphacool Eiswolf 2 AIO liquid cooler for the RTX 4090 Aorus Master, including full copper radiator, chrome-plated copper cooler, and digital RGB lighting.</p>	<p>Alphacool Eiswolf 2 AIO 360mm RTX 4090 Aorus Master: Ultimate GPU Cooling</p> <p>Detailed specifications and features of the Alphacool Eiswolf 2 AIO liquid cooler for the RTX 4090 Aorus Master, including full copper radiator, chrome-plated copper cooler, and digital RGB lighting.</p>