

Alphacool 13305

Alphacool Eispumpe VPP755 with Eisdecke D5 V.3 Pump/Res Combo User Manual

Model: 13305

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Alphacool Eispumpe VPP755 with Eisdecke D5 V.3 Pump/Res Combo. Please read this manual thoroughly before beginning installation to ensure safe and efficient use of the product.



Figure 1: Alphacool Eispumpe VPP755 with Eisdecke D5 V.3 Pump/Res Combo, showing the pump unit integrated into the acetal reservoir top.

2. SAFETY INFORMATION

- **Fluid Compatibility:** Use only clear, transparent water cooling fluids. Fluids containing particles or additives (e.g., Pastel fluids) can clog and permanently damage water cooling components such as radiators, pumps, and blocks. Use of such fluids may void the manufacturer's warranty.
- **Impeller Handling:** Removing the impeller from the ceramic shaft will cause the upper ceramic clamping ring to over-expand, leading to its destruction. This action will void the pump's warranty. If the pump is reassembled after such removal, the clamping ring will loosen, which is not accepted as grounds for return or exchange.
- **Voltage:** Ensure the power supply voltage is within the permitted range of 8-13V DC.
- **Temperature:** Do not exceed the maximum system temperature of 65°C.

3. PACKAGE CONTENTS

The following items are included in the scope of delivery:

- 1x Alphacool Eispumpe VPP755 - G1/4 IT
- 1x Eisdecke D5 - Acetal V.3

4. SETUP AND INSTALLATION

4.1 Physical Installation

The pump/res combo can be mounted using the integrated brackets. Ensure stable placement within your system to prevent vibration and stress on connections.



Figure 2: Side view of the pump/res combo, illustrating the mounting brackets for secure installation.

4.2 Port Connections

The Eisdecke D5 V.3 features multiple G1/4" threads for flexible integration into your water cooling loop. Identify the IN (inlet) and OUT (outlet) ports as labeled on the unit for correct flow direction.



Figure 3: Top view of the Eisdecke D5 V.3, highlighting the G1/4" inlet (IN) and outlet (OUT) ports for tubing connections.

4.3 Electrical Connections

Connect the pump to your power supply and motherboard using the provided cables:

- **4-pin Molex:** For main power supply to the pump.
- **3-pin Tach Signal:** Connect to a motherboard fan header to monitor pump RPM.
- **4-pin PWM Signal:** Connect to a motherboard PWM fan header for speed control.



Figure 4: The power and signal cables for the VPP755 pump, including the 4-pin Molex, 3-pin tachometer, and 4-pin PWM connectors.

5. OPERATING INSTRUCTIONS

The Alphacool Eispumpe VPP755 features an adjustable speed setting, allowing you to optimize performance and noise levels for your specific cooling needs.

5.1 Adjustable Levels

The pump can be adjusted in five distinct levels, controlling the rotational speed (RPM):

- **Level 1:** 1800 RPM
- **Level 2:** 2500 RPM
- **Level 3:** 3200 RPM
- **Level 4:** 3900 RPM
- **Level 5:** 4500 RPM

Adjust the level according to your system's cooling requirements and desired noise profile. Higher levels provide greater flow rate and pressure.

6. MAINTENANCE

Regular maintenance is crucial for the longevity and performance of your water cooling system. Ensure to use only clear, transparent water cooling fluids. Avoid fluids with particles or additives, as they can cause blockages and damage to the pump and other components. Periodically inspect your loop for any signs of

debris or fluid discoloration.

7. TROUBLESHOOTING

If you experience issues with your pump, consider the following:

- **No Power/No Operation:** Check all electrical connections (4-pin Molex, 3-pin tach, 4-pin PWM) to ensure they are securely seated and receiving power. Verify your power supply is functioning correctly.
- **Reduced Flow/Noise:** This could indicate air in the loop or a blockage. Bleed the system thoroughly to remove air. If using non-compatible fluids, a blockage may have occurred.
- **Impeller Issues:** As stated in the safety information, do not attempt to remove the impeller from the ceramic shaft. Doing so will damage the clamping ring and void the warranty. If the pump exhibits unusual noises or performance issues after unauthorized disassembly, it is likely damaged beyond repair and not covered by warranty.

8. TECHNICAL SPECIFICATIONS

8.1 VPP755 Eispumpe

| Feature | Specification |
|----------------------------|-----------------------------|
| Dimensions (DxH) | 60 x 53.5mm |
| Cable Length | 50cm |
| Standard Voltage | 12V DC |
| Power Consumption | 14W |
| Permitted Voltage | 8-13V DC |
| Pressure at 12V | 4m water head |
| Maximum Flow Rate | 350l/h |
| Pump Medium | Water, water/glycol mixture |
| Maximum System Temperature | 65°C |
| Power Connection | 4-pin Molex |
| Tach Signal | 3-pin |
| PWM Signal | 4-pin |
| Adjustable Levels | 5 levels (1800-4500 RPM) |

8.2 Eisdecke D5 V.3

| Feature | Specification |
|------------------------|----------------|
| Dimensions | 80 x 80 x 40mm |
| Dimensions with Stands | 83 x 80 x 87mm |

| Feature | Specification |
|-------------|-----------------|
| Material | Acetal |
| Connections | 5x 1/4" threads |



Figure 5: Dimensional drawing of the Alphacool Eispumpe VPP755 with Eisdecke D5 V.3, showing key measurements for integration.

9. WARRANTY AND SUPPORT




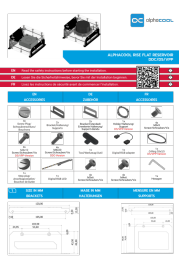
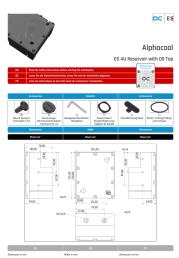
The manufacturer's warranty for the Alphacool Eispumpe VPP755 with Eisdecke D5 V.3 Pump/Res Combo is subject to specific conditions. Please note the following:

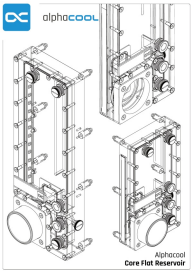
- **Impeller Removal:** Any attempt to remove the impeller from the ceramic shaft will result in damage to the internal clamping ring and will immediately void the pump's warranty.
- **Fluid Usage:** Use of non-compatible fluids, particularly those containing particles or additives (e.g., Pastel fluids), can cause permanent damage to the pump and other water cooling components, potentially voiding the manufacturer's warranty.

For technical support or warranty inquiries, please refer to the official Alphacool website or contact their customer service directly. Always provide your product model number (13305) and proof of purchase when

seeking support.

Related Documents - 13305

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|---|--|
|  | <p>Alphacool EisPumpe-VPP755 Water Cooling Pump: Installation, Operation, and Safety Guide</p> <p>Comprehensive guide for the Alphacool EisPumpe-VPP755 water cooling pump, covering installation, electrical connections, manual and PWM speed control, technical specifications, safety instructions, and warranty details.</p> |
|  | <p>Alphacool Core Flat Reservoir 240 Right with VPP Pump - Technical Specifications</p> <p>Explore the Alphacool Core Flat Reservoir 240 Right, featuring integrated VPP pump, digital aRGB lighting, and a flat acrylic design ideal for custom PC water cooling and compact builds. Includes 5 connections for flexible setup.</p> |
|  | <p>Alphacool Eisdecke Pump Top Installation and Technical Details</p> <p>Comprehensive guide to the Alphacool Eisdecke pump top, covering installation, technical specifications, and safety instructions in multiple languages.</p> |
|  | <p>Alphacool Rise Flat Reservoir Installation Guide</p> <p>Comprehensive guide for installing the Alphacool Rise Flat Reservoir with DDC, D5, and VPP pumps. Includes parts list, assembly instructions for case and radiator mounting, fill port usage, tube assembly, and digital RGB integration.</p> |
|  | <p>Alphacool ES 4U Reservoir with D5 Top Installation Guide</p> <p>Comprehensive installation guide for the Alphacool ES 4U Reservoir with D5 Top, detailing accessories, dimensions, and mounting procedures for PC water cooling systems. Includes safety instructions and compatibility notes.</p> |



[Alphacool Core Flat Reservoir Installation and User Guide](#)

Comprehensive guide for installing and using the Alphacool Core Flat Reservoir, featuring D5/VPP pump compatibility, ARGB lighting, and detailed assembly instructions for PC water cooling systems.