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Bykski CP-PMD3COV-X-CT60-V2-200

Bykski DDC CP-PMD3COV-X 200mm PMMA Reservoir Combo User Manual

Model: CP-PMD3COV-X-CT60-V2-200

Introduction Safety Contents Overview Specifications Installation Operation Maintenance Troubleshooting Support

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Bykski DDC CP-PMD3COV-X 200mm PMMA Reservoir Combo. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. This DDC pump and reservoir combination is designed for custom PC liquid cooling systems.

2. Safety Information

Warning: Improper installation or use may result in hardware damage. Use at your own risk.

- Ensure all power to the computer system is disconnected before installation or maintenance.
- Always perform a leak test before powering on the entire system.
- Use only non-aluminum coolants in your liquid cooling loop to prevent galvanic corrosion.
- Do not overtighten fittings, as this can damage threads or acrylic components.
- Keep the product away from direct sunlight and high temperatures.
- This product is intended for use by experienced PC builders. If you are unsure about any step, seek professional assistance.

3. Package Contents

Verify that all components listed below are present in your package:

- 1x Aluminum Pump Housing (pre-installed)
- 1x Aluminum Base Plate (pre-installed)
- 2x Mount Brackets + Screws (L-type brackets)
- 1x DDC Pump (pre-installed)
- 1x Reservoir + Top (200mm PMMA tube)

4. Product Overview

The Bykski DDC CP-PMD3COV-X 200mm PMMA Reservoir Combo integrates a powerful DDC pump with a 200mm PMMA reservoir, featuring a pre-installed Bykski Heatsink Armor. This unit is designed to be a central component for your custom liquid cooling loop, offering efficient coolant circulation and integrated 5V A-RGB lighting for aesthetic customization.

Key Features:

- **Aluminum Armor Construction:** Provides durability and heat dissipation for the pump (not in contact with coolant).
- **Strong Pump Performance:** Capable of 600 L/h flow rate and a 6-meter output head, suitable for various loop sizes.

- **Integrated 5V A-RGB (RBW) LEDs:** Allows for customizable lighting effects, compatible with standard 5V addressable RGB headers.
- **Redesigned Cavity Structure:** Optimized for maximum flow rate and head pressure.



Image: The Bykski DDC CP-PMD3COV-X 200mm PMMA Reservoir Combo showcasing its integrated 5V A-RGB lighting in operation.

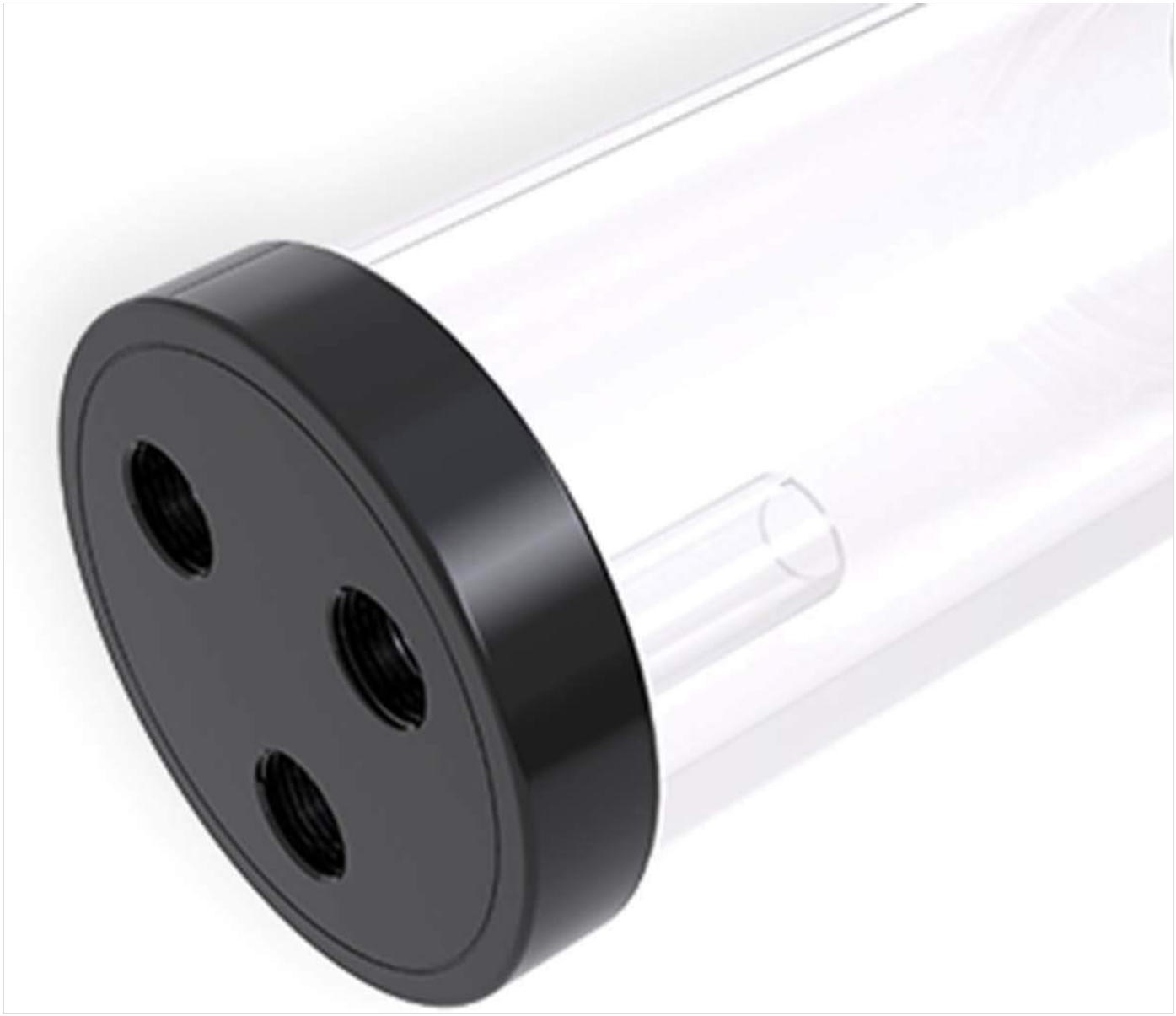


Image: Top view of the reservoir, illustrating the G1/4 inch threaded ports for coolant input and output.



Image: Close-up of the DDC pump base with its aluminum heatsink armor, designed for efficient heat dissipation.

5. Specifications

Material	ABS Resin + Mitsubishi acrylic + Aluminum alloy (not in contact with coolant)
RPM	5000 max
Power	DC12V, TDP 15W
Voltage Range	10V-15V
Flow Rate	600 L/h
Output Head	6 meters
Temperature	45°C @ 4000RPM
Connectors	4-Pin Molex (power), 4-Pin Fan (Tach+PWM only)
Height (Total)	255mm
Reservoir Height	200mm
Width	70mm
Thread Size	G 1/4in.

Compatibility (Loop)	Non-Aluminum
Item Weight	48 Ounces (approx. 1.36 kg)

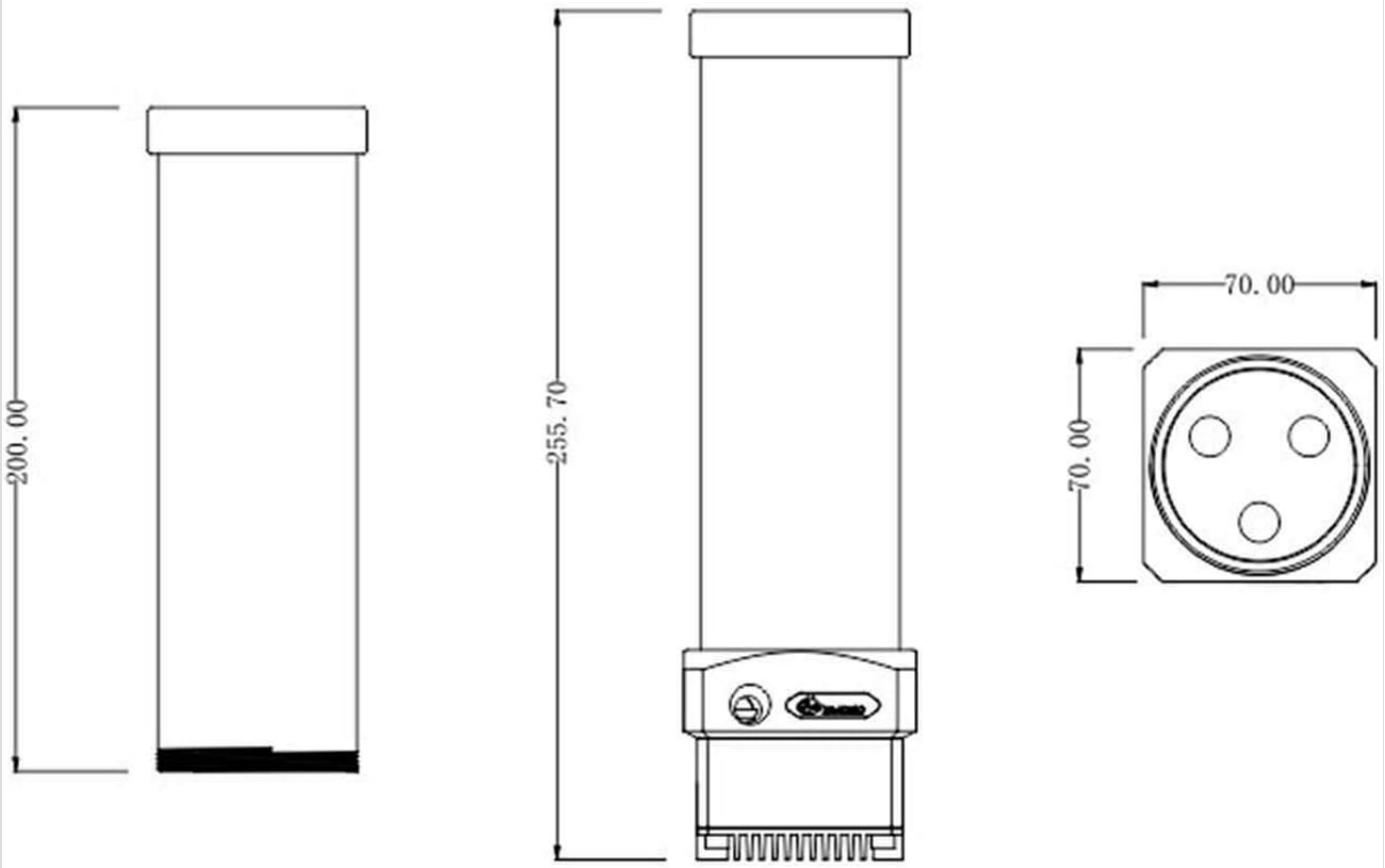


Image: Dimensional drawing showing the total height of 255mm, reservoir height of 200mm, and width of 70mm.

6. Installation

Follow these steps carefully for proper installation of the reservoir combo into your PC case.

6.1 Mounting Options

The Bykski DDC Reservoir Combo offers flexible mounting options. Two L-type brackets are included for standard installation. An optional arch bracket (sold separately) provides additional mounting versatility.

Method 1: Using L-type Brackets (Included)

This method utilizes the two L-type brackets provided to secure the reservoir combo within your case.

1. Attach the L-type brackets to the pump housing using the provided screws. Ensure they are securely fastened.
2. Position the reservoir combo in your desired location within the PC case. Common locations include radiator mounts or dedicated pump/reservoir mounting points.
3. Secure the L-type brackets to the case chassis using appropriate screws. Ensure the combo is stable and does not wobble.

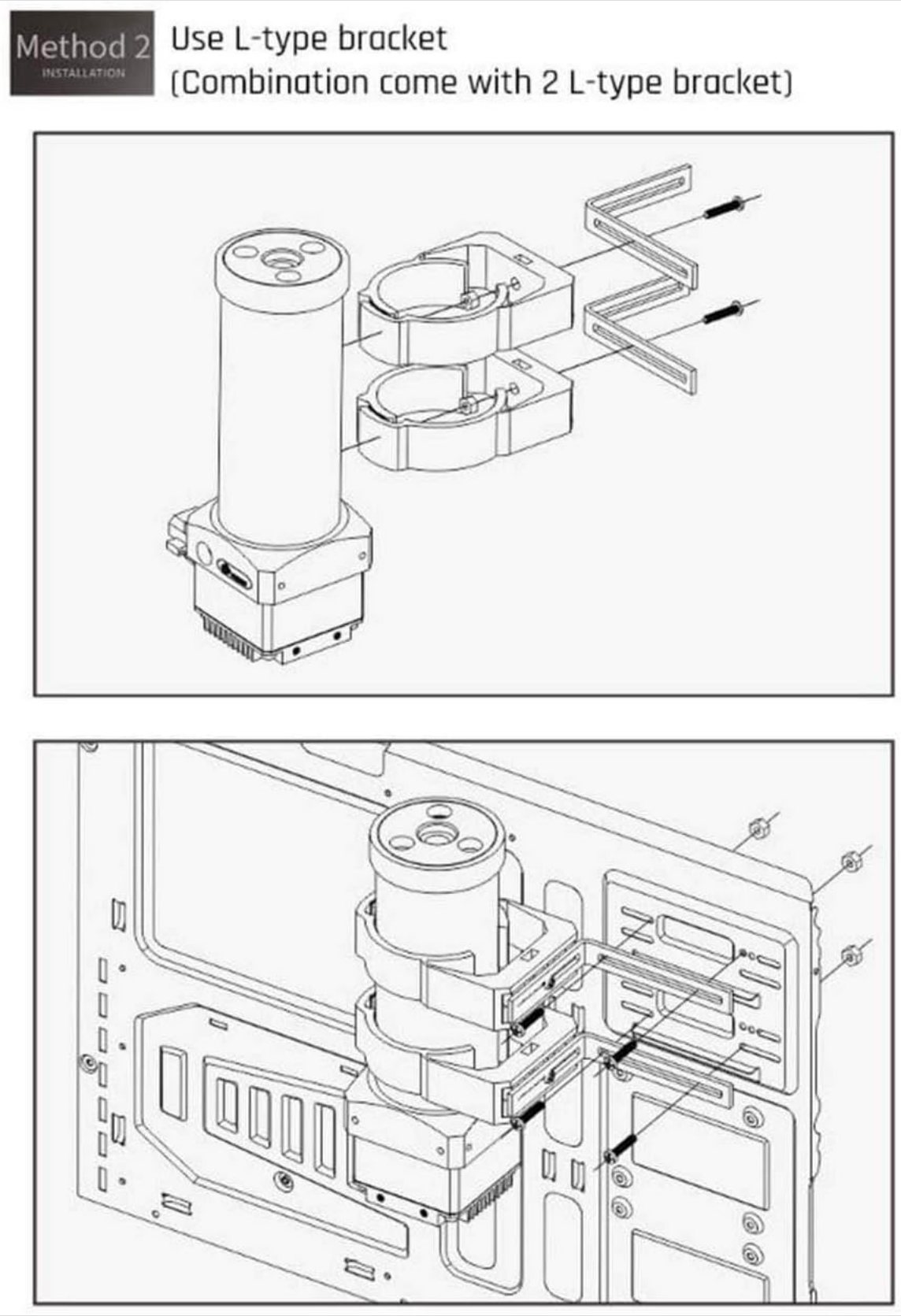


Image: Diagram illustrating the attachment of L-type brackets to the pump and their subsequent mounting within a PC case.

Method 2: Using Arch Bracket (Additional Purchase Required)

For alternative mounting configurations, an arch bracket can be used. This bracket is not included and must be purchased separately.

1. Attach the arch bracket to the pump housing.
2. Depending on the arch bracket design, it can be mounted to a radiator or a fan mounting location within the case.
3. Secure the arch bracket and reservoir combo firmly to the chosen mounting point.

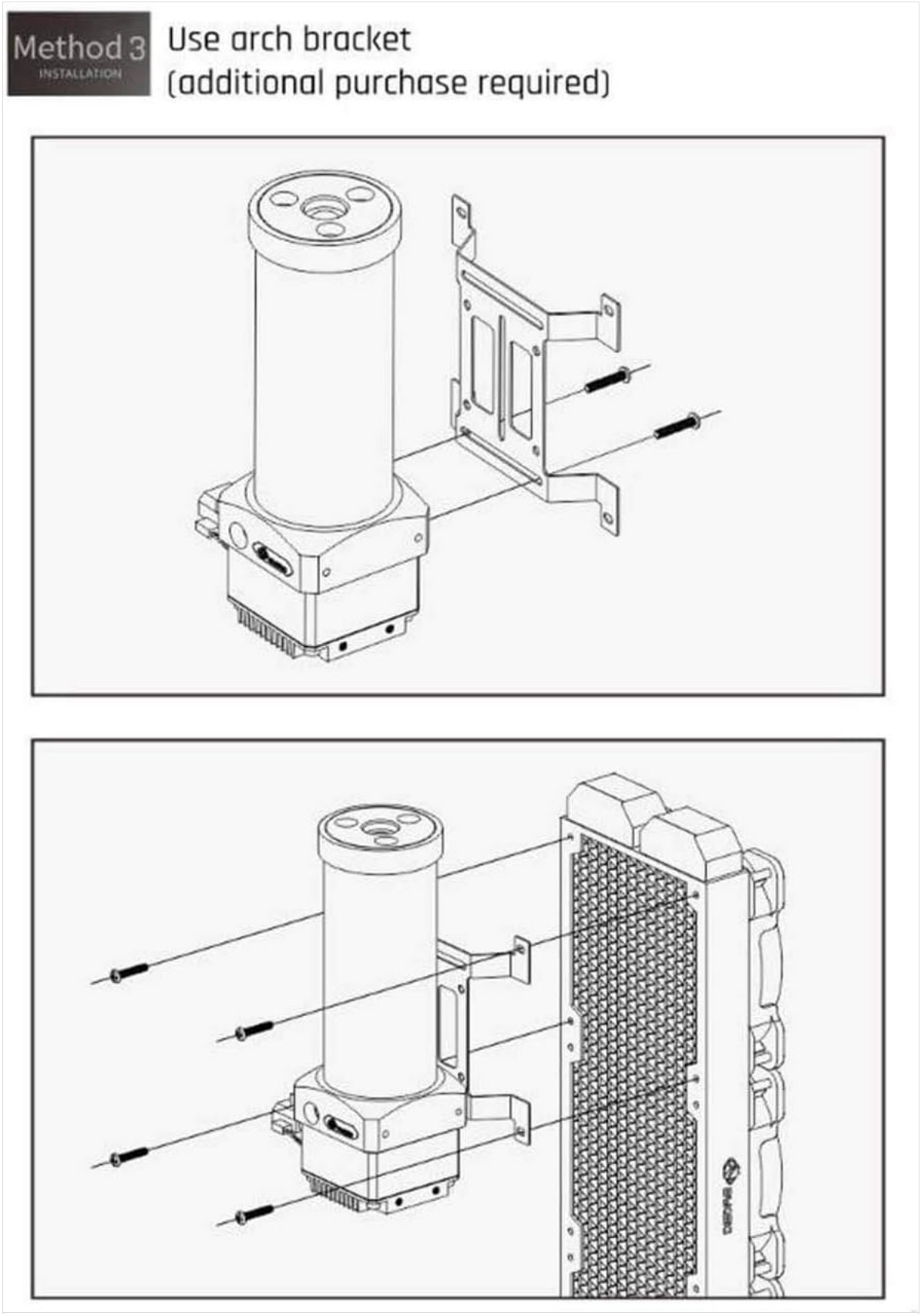


Image: Diagram showing the installation of the reservoir combo using an optional arch bracket, demonstrating mounting to a radiator.

6.2 Connecting to the Loop

1. Install G1/4in. fittings (not included) into the reservoir ports. Ensure all fittings are tightened securely but do not overtighten.
2. Connect your tubing to the fittings, ensuring a tight seal.
3. Integrate the reservoir combo into your custom liquid cooling loop. The top port typically serves as the fill port, and the bottom ports are for inlet/outlet.

6.3 Power and RGB Connections

1. Connect the 4-Pin Molex connector from the pump to your power supply unit (PSU). This provides power to the DDC pump.

2. Connect the 4-Pin fan connector (Tach+PWM only) to an available fan header on your motherboard. This allows for RPM monitoring and PWM control of the pump speed.
3. Connect the 5V A-RGB cable to a compatible 5V addressable RGB header on your motherboard or a dedicated RGB controller. Ensure the correct voltage (5V) is used to prevent damage.

7. Operating Instructions

7.1 Filling the Loop

1. Before filling, ensure all components are securely installed and all fittings are tightened.
2. Use a dedicated liquid cooling fluid. **Do not use tap water.**
3. Fill the reservoir through the top port. It is recommended to use a fill bottle or funnel.
4. With the pump connected to power (but the rest of the PC off), briefly power on the pump to circulate fluid. Immediately power off if the reservoir runs dry.
5. Continue to fill the reservoir and cycle the pump until the entire loop is filled and air bubbles are minimized.

7.2 Leak Testing

A thorough leak test is critical before powering on your computer system.

1. After filling the loop, allow the system to run with only the pump powered for at least 12-24 hours.
2. Place paper towels or absorbent material under all fittings and components to easily detect leaks.
3. Regularly check for any signs of leaks. If a leak is found, immediately power off the pump, drain the loop, and re-secure the leaking component.
4. Only proceed to power on the full computer system once you are confident there are no leaks.

7.3 Pump Speed Control

The DDC pump's speed can be monitored via the 4-pin fan header connected to your motherboard. If your motherboard supports PWM control for this header, you can adjust the pump speed through your motherboard's BIOS or software utilities. Adjust pump speed to balance flow rate, noise levels, and cooling performance.

8. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your liquid 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 flushing agent to remove any buildup or old coolant residue.
- **Component Inspection:** Periodically inspect tubing, fittings, and the reservoir for any signs of wear, discoloration, or leaks.
- **Cleaning:** If necessary, disassemble the reservoir and clean it with distilled water and a soft brush. Avoid abrasive cleaners.

9. Troubleshooting

This section addresses common issues you might encounter.

9.1 Pump Not Starting / No Flow

- **Check Power Connection:** Ensure the 4-Pin Molex connector is securely plugged into the PSU and the PSU is powered on.
- **Check PWM Connection:** If connected to a motherboard fan header, ensure the header is enabled in BIOS and receiving power. Try connecting to a different fan header or directly to 12V if possible for testing.
- **Air Lock:** If the pump runs but there's no flow, an air lock might be present. Gently tilt the PC case to help dislodge air bubbles.
- **Obstruction:** Check for any blockages in the loop or within the pump impeller.

9.2 Leaks Detected

- **Identify Source:** Immediately power off the pump and drain the loop. Carefully inspect all fittings, tubing connections, and component seals to pinpoint the leak.
- **Tighten Fittings:** Gently tighten any loose fittings. Do not overtighten.
- **Inspect O-rings:** Check O-rings on fittings and components for damage or improper seating. Replace if necessary.

- **Tubing Damage:** Inspect tubing for cuts, punctures, or cracks. Replace damaged tubing.

9.3 RGB Lighting Not Working

- **Check Connection:** Ensure the 5V A-RGB cable is correctly connected to a compatible 5V header on your motherboard or controller. Verify the pin orientation.
- **Software/BIOS Settings:** Check your motherboard's RGB control software or BIOS settings to ensure the A-RGB header is enabled and configured correctly.
- **Voltage Mismatch:** Ensure you are connecting to a 5V A-RGB header, not a 12V RGB header, as this can damage the LEDs.

10. Warranty and Support

For warranty information and technical support, please refer to the official Bykski website or contact your retailer. Keep your proof of purchase for warranty claims.
For further assistance, you may visit the Bykski Store on Amazon or contact their customer service directly.

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