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**be quiet! BW017**

# be quiet! Pure Loop 2 240mm All-in-One Water Cooling System

Model: BW017

## 1. INTRODUCTION

The be quiet! Pure Loop 2 240mm is an advanced all-in-one water cooling system designed to provide superior cooling performance for your desktop computer's central processing unit (CPU). This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your cooling system.

Key features include:

- Two Pure Wings 3 120mm PWM high-speed fans for high static pressure and quiet operation.
- Doubly decoupled PWM pump to minimize vibrations.
- ARGB illumination on the cooling block for a distinct aesthetic.
- Easy-to-access refill port and included coolant bottle for extended lifespan.
- Flexible sleeved tubes and convenient mounting for easy handling.

## 2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or damage to the product and connected components.

- Ensure your computer system is powered off and unplugged from the wall outlet before installation.
- Avoid touching electrical components directly.
- Do not open the pump or radiator. Tampering with the sealed unit may void the warranty and cause leaks.
- Keep the product away from liquids and extreme temperatures.
- Handle the radiator fins with care to avoid bending or damage.
- Use only the provided mounting hardware.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- be quiet! Pure Loop 2 240mm All-in-One Water Cooling System (Radiator, Pump/Cold Plate, Tubing)
- 2x Pure Wings 3 120mm PWM high-speed fans
- Mounting hardware for Intel (LGA 1700, 1200, 1150, 1151, 1155) and AMD (AM5, AM4) sockets
- Thermal paste syringe
- Coolant bottle for refilling
- ARGB/PWM hub (for Pure Loop 2 FX models, may vary)
- Fan screws and radiator mounting screws



Image: All components included with the be quiet! Pure Loop 2 240mm AIO.

## 4. SETUP AND INSTALLATION

Follow these steps to properly install your be quiet! Pure Loop 2 240mm water cooling system. Refer to the video for visual guidance.

### 4.1. Prepare Motherboard and CPU

Ensure your CPU is correctly installed in its socket. For AMD AM5/AM4, remove the stock cooler mounts from the

motherboard. For Intel LGA 1700, install the appropriate backplate and standoffs.

## 4.2. Apply Thermal Paste

Apply a small amount of thermal paste (included) to the center of your CPU's integrated heat spreader (IHS). A pea-sized dot or a thin line is usually sufficient. Do not spread the paste manually; the pressure from the cold plate will distribute it evenly.

## 4.3. Install Fans on Radiator

Attach the two Pure Wings 3 120mm PWM fans to the radiator using the provided fan screws. Ensure the fan cables are oriented for optimal cable management within your PC case.



Image: Close-up of Pure Wings 3 120mm PWM fans, showing their design for high static pressure.

## 4.4. Mount Radiator in PC Case

Secure the radiator, with fans attached, to an available mounting location in your PC case (e.g., top, front, or rear). Use the longer radiator mounting screws. Ensure proper airflow direction (intake or exhaust) based on your case's cooling strategy.

## 4.5. Install Pump/Cold Plate

Carefully place the pump/cold plate assembly onto the CPU, aligning the mounting holes with the standoffs. Tighten the screws in a diagonal pattern, applying even pressure until snug. Do not overtighten.



Image: Diagram illustrating the internal components and flow path of the Pure Loop 2 pump.

## 4.6. Connect Cables

Connect the fan PWM cables to your motherboard's fan headers or the included ARGB/PWM hub. Connect the pump's PWM cable to the dedicated AIO\_PUMP or CPU\_OPT header on your motherboard. Connect the ARGB cable from the pump to a compatible 3-pin 5V ARGB header on your motherboard or the ARGB/PWM hub.

For detailed installation steps, watch the official installation video:

Your browser does not support the video tag.

Video: Official installation guide for be quiet! Pure Loop 2 / FX, demonstrating steps for AMD AM5/AM4 and Intel LGA 1700 sockets.

## 5. OPERATING INSTRUCTIONS

Once installed, the Pure Loop 2 240mm operates automatically based on your motherboard's fan and pump control settings. For optimal performance and acoustics, it is recommended to configure fan curves in your motherboard's BIOS/UEFI or through compatible software.

## 5.1. ARGB Illumination Control

The ARGB illumination on the cooling block can be controlled via your motherboard's RGB software (e.g., ASUS Aura Sync, MSI Mystic Light, Gigabyte RGB Fusion, ASRock Polychrome Sync). Connect the ARGB cable to a compatible 3-pin 5V ARGB header on your motherboard to synchronize lighting effects.



Image: The ARGB illuminated pump head of the Pure Loop 2, showcasing its customizable lighting. See the impressive lighting and superior cooling in action:

Your browser does not support the video tag.

Video: A short demonstration of the PURE LOOP 2's impressive lighting and cooling capabilities.

## 6. MAINTENANCE

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

## 6.1. Coolant Refill

The Pure Loop 2 features an easy-to-access refill port on the radiator. Over time, a small amount of coolant may evaporate. Use the included coolant bottle to top up the system when necessary. Refer to the installation video for the location of the refill port.



Image: Close-up of the refill port on the radiator, designed for easy coolant top-up.

## 6.2. Cleaning

Periodically clean dust from the radiator fins and fan blades using compressed air or a soft brush. Ensure the system is powered off before cleaning.

## 7. TROUBLESHOOTING

If you encounter issues with your Pure Loop 2, try the following steps:

- **No Power/Fans Not Spinning:** Check all power connections (SATA power for ARGB/PWM hub, fan headers

on motherboard). Ensure the pump is connected to the AIO\_PUMP header.

- **High CPU Temperatures:** Verify that the pump is running and the fans are spinning. Re-check thermal paste application and ensure the cold plate is making good contact with the CPU. Confirm radiator is not obstructed by dust.
- **ARGB Not Working:** Ensure the ARGB cable is correctly connected to a 3-pin 5V ARGB header on your motherboard or hub. Check motherboard RGB software settings.
- **Unusual Noise:** Check for loose fan screws or obstructions in fan blades. Ensure the pump is securely mounted and not vibrating against other components.

## 8. SPECIFICATIONS

Feature	Specification
Product Dimensions	4.72" L x 10.9" W x 1.06" H
Brand	be quiet!
Power Connector Type	4-Pin
Voltage	12 Volts
Wattage	5.4 watts
Cooling Method	Water
Compatible Devices	Desktop
Noise Level	34.9 Decibels
Material	Aluminum, Copper
Maximum Rotational Speed	2100 RPM
Item model number	BW017

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official be quiet! website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Additional protection plans may be available through your retailer:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect: One plan covers all eligible past and future purchases

For further assistance, visit the [be quiet! Store on Amazon](#).