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› iBUYPOWER AW4 360mm Radiator CPU AIO Liquid Cooler User Manual

iBUYPOWER FAN-IBP-006-W-R

iBUYPOWER AW4 360mm Radiator CPU AIO Liquid Cooler User Manual

Model: FAN-IBP-006-W-R

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your iBUYPOWER AW4 360mm Radiator CPU AIO Liquid Cooler. This all-in-one liquid cooling system is designed to efficiently dissipate heat from your CPU, featuring performance-oriented PWM radiator fans and a durable hydraulic bearing pump. The skived fin radiator design enhances thermal transfer, while swivel fittings and braided sleeved tubing offer flexibility and longevity during installation.

2. PACKAGE CONTENTS

Carefully unpack the box and ensure all components are present. If any items are missing or damaged, contact iBUYPOWER support.

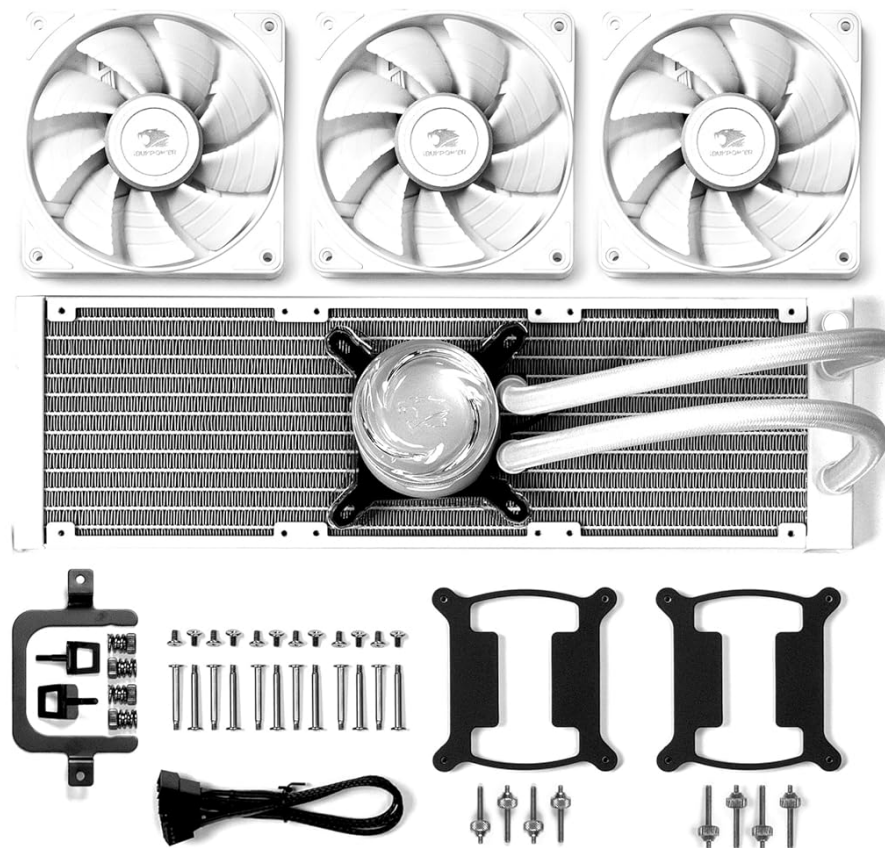


Image 2.1: All components of the iBUYPOWER AW4 360mm AIO Liquid Cooler, including the radiator with three fans, pump/cold plate, and various mounting hardware for different CPU sockets.

- 360mm Radiator with three 120mm Core Fans
- CPU Pump/Cold Plate with integrated RGB display
- Mounting Brackets for Intel (LGA1700/1150/1151) and AMD (AM5/AM4) sockets
- Backplates for compatible CPU sockets
- Mounting Screws and Standoffs
- Fan Screws
- Thermal Paste (often pre-applied or included)
- PWM Fan Splitter Cable (if fans are separate)
- RGB Control Cable (if applicable)
- User Manual (this document)

3. SPECIFICATIONS

Feature	Specification
Model Number	FAN-IBP-006-W-R
Radiator Size	360mm
Fan Size	120mm (x3)
Fan Speed	700 - 2000 RPM (+/-10%)
Airflow Volume	65 CFM (Max)
Noise Level	38 dB (Max)
Bearing Type	Hydraulic Bearing
CPU Socket Compatibility	Intel LGA1700/1150/1151, AMD AM5/AM4
Cooling Method	Liquid (Water)
Power Connector	4-Pin (PWM)
Voltage	12V DC

4. SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and unplugged. Refer to your motherboard manual for specific CPU socket details.

4.1. Prepare CPU and Motherboard

- Clean CPU Surface:** If you are replacing an existing cooler, carefully clean any old thermal paste from the CPU and CPU cooler contact surface using isopropyl alcohol and a lint-free cloth.
- Install Backplate:** For Intel sockets, install the appropriate backplate behind the motherboard. For AMD sockets, the stock backplate is typically used.
- Install Standoffs:** Screw the correct standoffs for your CPU socket into the backplate or motherboard mounting holes.

4.2. Radiator and Fan Installation



Image 4.1: The iBUYPOWER AW4 360mm AIO Liquid Cooler, showing the radiator with three 120mm fans and the pump/cold plate unit.

4. **Mount Fans to Radiator:** If the fans are not pre-attached, use the provided fan screws to secure the three 120mm fans to the radiator. Ensure the fan airflow direction is correct for your case (typically exhausting air out or intaking air in).
5. **Install Radiator in Case:** Locate a suitable mounting position in your PC case (e.g., top, front). Secure the radiator with the attached fans to the case using the longer radiator screws. Ensure there is enough clearance for the tubing.

4.3. Pump/Cold Plate Installation



Image 4.2: A detailed view of the iBUYPOWER AW4 AIO pump/cold plate unit, highlighting its integrated RGB lighting and braided tubing connections.

6. **Apply Thermal Paste:** If thermal paste is not pre-applied to the cold plate, apply a small pea-sized amount to the center of your CPU's integrated heat spreader (IHS).
7. **Mount Pump/Cold Plate:** Carefully place the pump/cold plate assembly onto the CPU, aligning the mounting holes with the standoffs.
8. **Secure Pump:** Use the provided thumb screws or nuts to secure the pump to the standoffs. Tighten in a cross pattern until snug, but do not overtighten.

4.4. Cable Connections

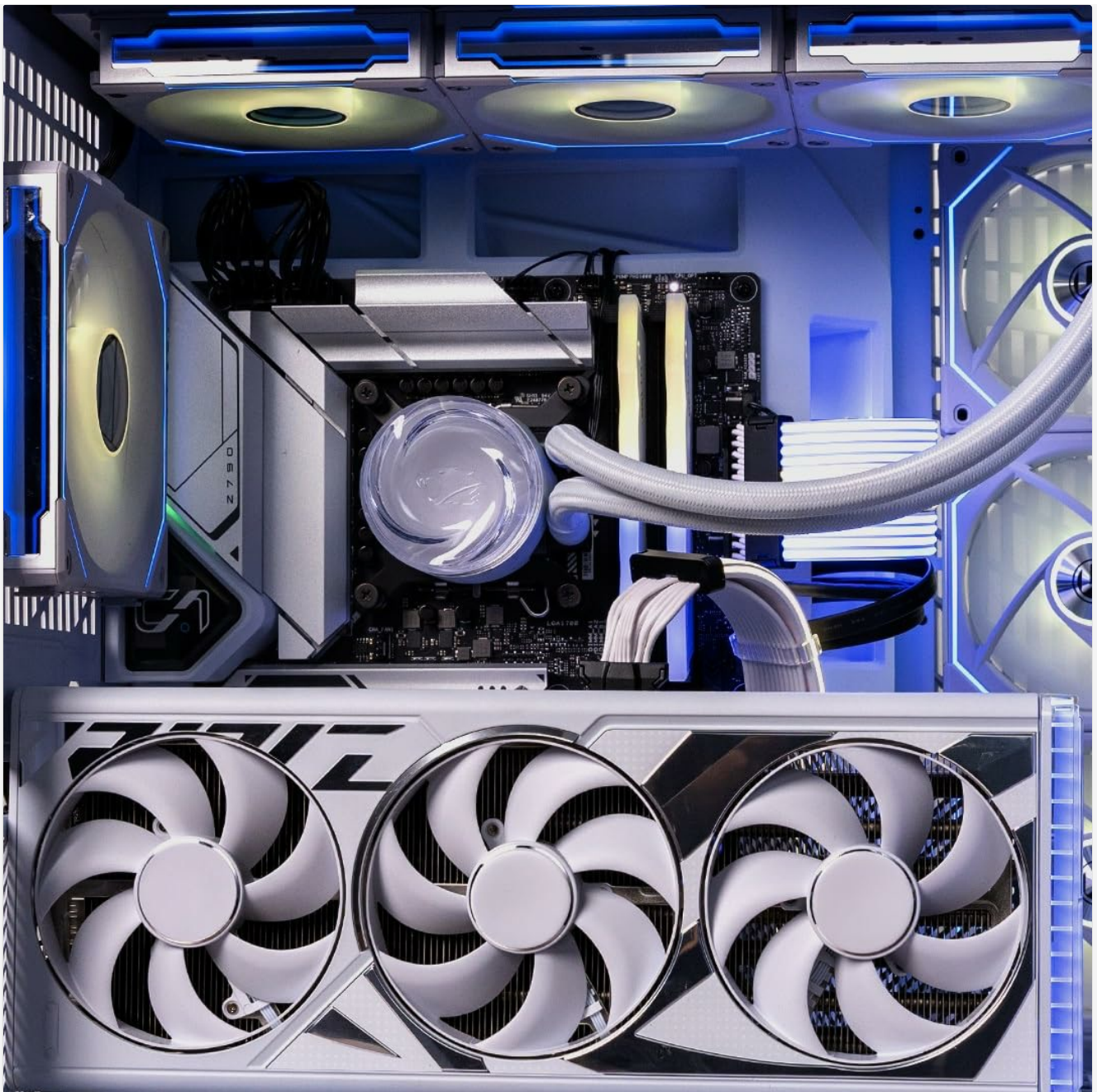


Image 4.3: The iBUYPOWER AW4 AIO Liquid Cooler installed within a computer case, showing the radiator mounted at the top and the pump unit on the CPU.

9. **Connect Fan Cables:** Connect the 4-pin PWM fan cables from the radiator fans to the CPU_FAN header on your motherboard, or to a fan splitter cable which then connects to the CPU_FAN header.
10. **Connect Pump Cable:** Connect the 4-pin PWM pump cable to the CPU_OPT or AIO_PUMP header on your motherboard. Refer to your motherboard manual for the correct header.
11. **Connect RGB Cables:** Connect the RGB cable from the pump to an available 3-pin 5V Addressable RGB (ARGB) header on your motherboard or to a compatible RGB controller.

After all connections are made, perform a visual check to ensure all components are securely mounted and cables are routed neatly, avoiding interference with other components or fan blades.

5. OPERATING INSTRUCTIONS

Once installed, the iBUYPOWER AW4 AIO Liquid Cooler operates automatically based on your motherboard's fan control settings. For optimal performance and longevity, consider the following:

- **BIOS/UEFI Settings:** Access your motherboard's BIOS/UEFI to configure fan curves for the CPU_FAN/AIO_PUMP headers. It is recommended to set the pump to run at 100% speed for consistent flow, while fan speeds can be adjusted based on CPU temperature.
- **Software Control:** If your motherboard supports it, use the manufacturer's software to fine-tune fan speeds and customize the RGB lighting effects of the pump.
- **Temperature Monitoring:** Regularly monitor your CPU temperatures using system monitoring software to ensure the cooler is functioning effectively. Typical idle temperatures should be low, and under load, temperatures should remain within safe operating limits for your CPU.



Image 5.1: The iBUYPOWER AW4 AIO pump displaying dynamic RGB lighting, customizable via software or motherboard headers.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your AIO liquid cooler.

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure the fans are not spinning during cleaning to prevent damage.
- **Check Tubing and Connections:** Visually inspect the tubing and connections for any signs of leaks or

damage. While AIOs are sealed systems, occasional checks are recommended.

- **Thermal Paste:** The thermal paste typically lasts for several years. If you notice a significant increase in CPU temperatures over time, consider reapplying fresh thermal paste.

7. TROUBLESHOOTING

If you encounter issues with your iBUYPOWER AW4 AIO, refer to the following common troubleshooting steps:

- **High CPU Temperatures:**
 - Ensure the pump is running (you might hear a faint hum or feel vibrations). Check pump power connection.
 - Verify fans are spinning and correctly oriented for airflow. Check fan power connections.
 - Confirm the cold plate is making proper contact with the CPU. Re-seat the cooler and reapply thermal paste if necessary.
 - Check for dust buildup on the radiator fins.
- **Excessive Noise:**
 - **Fan Noise:** Check if fan blades are obstructed or if screws are loose. Adjust fan speed curves in BIOS/software.
 - **Pump Noise:** A slight hum is normal. Gurgling sounds might indicate air bubbles; gently tilt your PC case to help move air to the highest point of the radiator. If noise is excessive or grinding, contact support.
- **RGB Lighting Not Working:**
 - Ensure the RGB cable is securely connected to the motherboard's ARGB header or controller.
 - Check your motherboard's RGB software or BIOS settings to ensure RGB is enabled and configured.
 - Verify the RGB header is 3-pin 5V ARGB, not 4-pin 12V RGB, as connecting incorrectly can cause damage.
- **Leaking:** If you observe any liquid leakage, immediately power off your system and unplug it. Do not attempt to operate the system. Contact iBUYPOWER support immediately.

8. WARRANTY AND SUPPORT

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

iBUYPOWER Support: www.ibuypower.com/support