Thermaltake CL-F080-PL14SW-A

Thermaltake Pure 14 ARGB Fan Instruction Manual

Model: CL-F080-PL14SW-A

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Thermaltake Pure 14 ARGB 140mm Hydraulic Bearing Case/Radiator Fans. These fans feature addressable RGB lighting, offering versatile customization options through motherboard synchronization or an included analog controller.

Key Features:

- **Addressable RGB Lighting:** Nine 16.8 million color addressable LEDs provide balanced lighting coverage and brightness.

- **Motherboard Synchronization:** Compatible with 5V addressable RGB motherboards (ASUS Aura Sync, Gigabyte RGB FUSION, MSI Mystic Light Sync, ASRock Polychrome).

- **Analog ARGB Controller:** Includes a low-profile controller for systems without RGB-capable motherboards, offering 8 preset colors and 7 LED modes.

- **Efficient Cooling:** 9-fan blade design optimized for balanced airflow and static pressure, suitable for case or radiator applications.

- **Quiet Operation:** Hydraulic bearing self-lubricates for quiet operation, complemented by anti-vibration rubber pads.

2. PACKAGE CONTENTS

What's in the Box:

- 3 x Thermaltake Pure 14 ARGB Fans

- 1 x ARGB Controller

- 1 x Mainboard Signal Bridge Cable (GIGABYTE)

- 1 x Mainboard Signal Bridge Cable (ASUS, MSI)

- 1 x PWM Splitter

- 12 x Long Screws

- 12 x Short Screws

The package includes three 140mm ARGB fans, an ARGB controller for standalone use, motherboard sync cables for various brands, a PWM splitter for fan power, and both long and short screws for mounting.

3. PRODUCT OVERVIEW

Fan Components:

FRONT   BACK

This image displays the front and back of a single Thermaltake Pure 14 ARGB fan, highlighting its 9-blade design and the central hub where the hydraulic bearing is located. The back view shows the fan's specifications label.

ARGB Controller:

The included ARGB controller allows manual adjustment of lighting effects. It features buttons for changing LED modes, selecting colors, and adjusting LED speeds. This controller is used when a 5V addressable RGB motherboard header is not available or preferred.

4. SETUP & INSTALLATION

Installation Steps:

1. **Mounting the Fans:** Securely attach the fans to your PC case or radiator using the provided long or short screws. Ensure proper airflow direction for optimal cooling.

2. **Connecting Fan Power:** Connect each fan's 4-pin power connector to the included PWM splitter. Then, connect the PWM splitter to an available 4-pin fan header on your motherboard. This allows for fan speed control.

3. **Connecting ARGB Lighting (Motherboard Sync):**
   - Identify the 5V addressable RGB header on your motherboard.
   - Connect the fans' 5V RGB header cable (daisy-chained if multiple fans) to the appropriate Mainboard Signal Bridge Cable (GIGABYTE or ASUS/MSI).
   - Connect the Mainboard Signal Bridge Cable to your motherboard's 5V ARGB header.
   - Control lighting effects using your motherboard's RGB software (e.g., ASUS Aura Sync, Gigabyte RGB FUSION, MSI Mystic Light Sync, ASRock Polychrome).

4. **Connecting ARGB Lighting (Analog Controller):**
   - If your motherboard lacks a 5V ARGB header or you prefer manual control, connect the fans' 5V RGB header cable (daisy-chained if multiple fans) directly to the included ARGB controller.
   - Connect the ARGB controller to a SATA power connector from your power supply for power.
   - Position the controller for easy access within or outside your case.

Important Notes:

- Ensure all connections are secure before powering on your system.

- Do not connect the 5V ARGB header to a 12V RGB header, as this can damage the LEDs.

- For optimal cable management, plan your routing before making final connections.

5. OPERATING INSTRUCTIONS

Controlling ARGB Lighting:

Depending on your setup, you can control the fan lighting in two ways:

1. Via Motherboard Software:

If connected to a compatible 5V addressable RGB motherboard, use the motherboard's dedicated software (e.g., ASUS Aura Sync, Gigabyte RGB FUSION, MSI Mystic Light Sync, ASRock Polychrome) to customize lighting effects, colors, and speeds. Refer to your motherboard's manual for specific software instructions.

2. Via Analog ARGB Controller:

If using the included analog controller, press the buttons to cycle through various lighting options:

- **Mode Button:** Cycles through 7 LED modes: Wave, Full Light, RGB Spectrum, Off, Flow, Ripple, Pulse, and Blink.

- **Color Button:** Selects from 8 preset colors: Red, Yellow, Green, Teal, Blue, White, Purple, and Rainbow.

- **Speed Button:** Adjusts the speed of dynamic LED effects (4 speeds available).

This image demonstrates the vibrant color capabilities of the Pure 14 ARGB fans, showing various static color options that can be selected via the analog controller or motherboard software.

6. MAINTENANCE

Cleaning:

- Periodically clean the fan blades and frame to prevent dust buildup, which can reduce cooling performance.

- Use a soft, dry cloth or compressed air to gently remove dust. Do not use liquid cleaners directly on the fans or electrical components.

Bearing Care:

The hydraulic bearing is designed for long-term, quiet operation and does not require user lubrication. Avoid disassembling the fan, as this may void the warranty and damage the bearing.

7. TROUBLESHOOTING

Common Issues and Solutions:

Issue	Possible Cause	Solution
Fans not spinning.	No power connection.	Ensure the 4-pin fan connector is securely connected to the PWM splitter and the splitter is connected to the motherboard fan header. Check power supply connections.
LEDs not lighting up.	Incorrect ARGB connection or no power to controller.	Verify the 5V ARGB header cable is correctly connected to either the motherboard's 5V ARGB header or the analog controller. If using the analog controller, ensure it is powered via a SATA connector. Do not connect to a 12V RGB header.
LEDs displaying incorrect colors or effects.	Software conflict or incorrect controller settings.	If using motherboard sync, ensure the correct software is installed and configured. If using the analog controller, cycle through modes and colors using the controller buttons. Ensure only one control method (motherboard or analog controller) is active for ARGB.
Fans are noisy.	High fan speed or obstruction.	Adjust fan speed settings in your motherboard's BIOS/UEFI or software. Check for any cables or debris obstructing the fan blades. Ensure anti-vibration pads are correctly installed.
Incompatibility with other Thermaltake RGB controllers (e.g., Pure Plus 12).	Different connector types.	The Pure 14 ARGB fans use a specific 5V ARGB connector. They are not directly compatible with older Thermaltake RGB controllers that use different proprietary connectors. Use the included controller or motherboard sync.

8. SPECIFICATIONS

Technical Specifications:

Feature	Specification
Model Number	CL-F080-PL14SW-A
Fan Dimensions	140 x 140 x 25 mm (5.51"L x 0.98"W x 5.51"H)

Feature	Specification
Interface	Fan: 2510-4P (4-Pin PWM), LED: 5V RGB Header
Fan Rated Voltage	12 V
LED Rated Voltage	5 V
Fan Rated Current	0.22 A (per fan)
LED Rated Current	0.32 A (per fan)
Power Input (Fan x3)	12V – 7.92 W, 5V – 4.8 W
Fan Speed	500 ~ 1400 R.P.M
Max. Air Pressure	1.62 mm-H2O
Max. Air Flow	70.32 CFM
Noise Level	30.4 dB-A
Bearing Type	Hydraulic Bearing
Life Expectation	40,000 hrs, 25℃
Weight (one Fan)	193.1 g (0.42 lbs)
Material	Rubber (Anti-vibration pads)
UPC	841163006610

9. WARRANTY & SUPPORT

Warranty Information:

This product is covered by a 3-year warranty from the date of purchase. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, refer to the official Thermaltake website or contact customer support.

Customer Support:

For technical assistance, troubleshooting, or further inquiries, please visit the official Thermaltake support page or contact their customer service department. You can find contact information on the Thermaltake website.

10. ADDITIONAL RESOURCES

Product Videos:

Your browser does not support the video tag.

Video Description: This video demonstrates the Thermaltake Pure 14 ARGB fans installed in a PC, showcasing their lighting effects and overall appearance during operation. It highlights the visual appeal of the

fans within a system build.

Your browser does not support the video tag.

Video Description: *This video provides a closer look at the Thermaltake Pure 14 ARGB fans, demonstrating their aesthetic qualities and how they appear when installed and illuminated within a computer case.*