Montech HyperFlow DIGITAL 240

MONTECH HyperFlow Digital 240 CPU Liquid Cooler Instruction Manual

Model: HyperFlow DIGITAL 240 | Brand: Montech

Contents	Specifications	Installation	Overview Operation Support	Package Maintenance	Troubleshooting	Warranty &

1. PRODUCT OVERVIEW

The MONTECH HyperFlow Digital 240 CPU Liquid Cooler is an all-in-one (AIO) liquid cooling solution designed for efficient heat dissipation in computer systems. It features a powerful pump, two 120mm E28 ARGB fans, and a real-time digital display for monitoring CPU and GPU temperatures. This cooler is compatible with various Intel and AMD platforms.

Image: The MONTECH HyperFlow Digital 240 CPU Liquid Cooler, showcasing the radiator, fans, pump, and digital display.

2. PACKAGE CONTENTS

Verify that all components are present in the package before proceeding with installation.

- MONTECH HyperFlow Digital 240 AIO Liquid Cooler (Radiator, Pump with Digital Display, Pre-installed Fans)
- Mounting Hardware for Intel Sockets (1151/1200/1700/1851/20XX)
- Mounting Hardware for AMD Sockets (AM3/AM4/AM5)
- Cables (Fan power, ARGB, USB for display)
- User Manual (This document)

Image: An overview diagram illustrating the main components and features of the HyperFlow Digital AIO cooler.

3. TECHNICAL SPECIFICATIONS

Feature	Specification
Product Dimensions	11.08"L x 1.07"W x 4.8"H
Cooling Method	Water
Pump Speed	3100 RPM (±10%)
Fan Type	E28 ARGB Fans
Fan Size	120mm
Maximum Fan Rotational Speed	2200 RPM (±10%)
Air Flow Capacity	96.27 Cubic Feet Per Minute (CFM)
Static Pressure	4.13 mmH$_2$O
Noise Level	36.25 Decibels (Max)
Radiator Thickness	27mm
Radiator FPI	20 FPI (Fins Per Inch)
Power Connector Type	4-Pin PWM
Voltage	12 Volts
Material	Aluminum (Radiator)
Compatible Devices	CPU, Desktop
Intel Socket Support	1151/1200/1700/1851/20XX
AMD Socket Support	AM3/AM4/AM5
Item Weight	4.6 pounds

4. INSTALLATION GUIDE

The MONTECH HyperFlow Digital 240 is designed for hassle-free installation with pre-installed fans and pre-applied thermal paste.

4.1. Prepare Your System

- Power off your computer and disconnect all cables.
- Open your computer case to access the motherboard and CPU area.
- Remove any existing CPU cooler. Clean the CPU surface if necessary.

4.2. Mount the Radiator and Fans

The fans are pre-installed on the radiator. Determine the optimal mounting location in your case (e.g., top, front) ensuring adequate clearance.
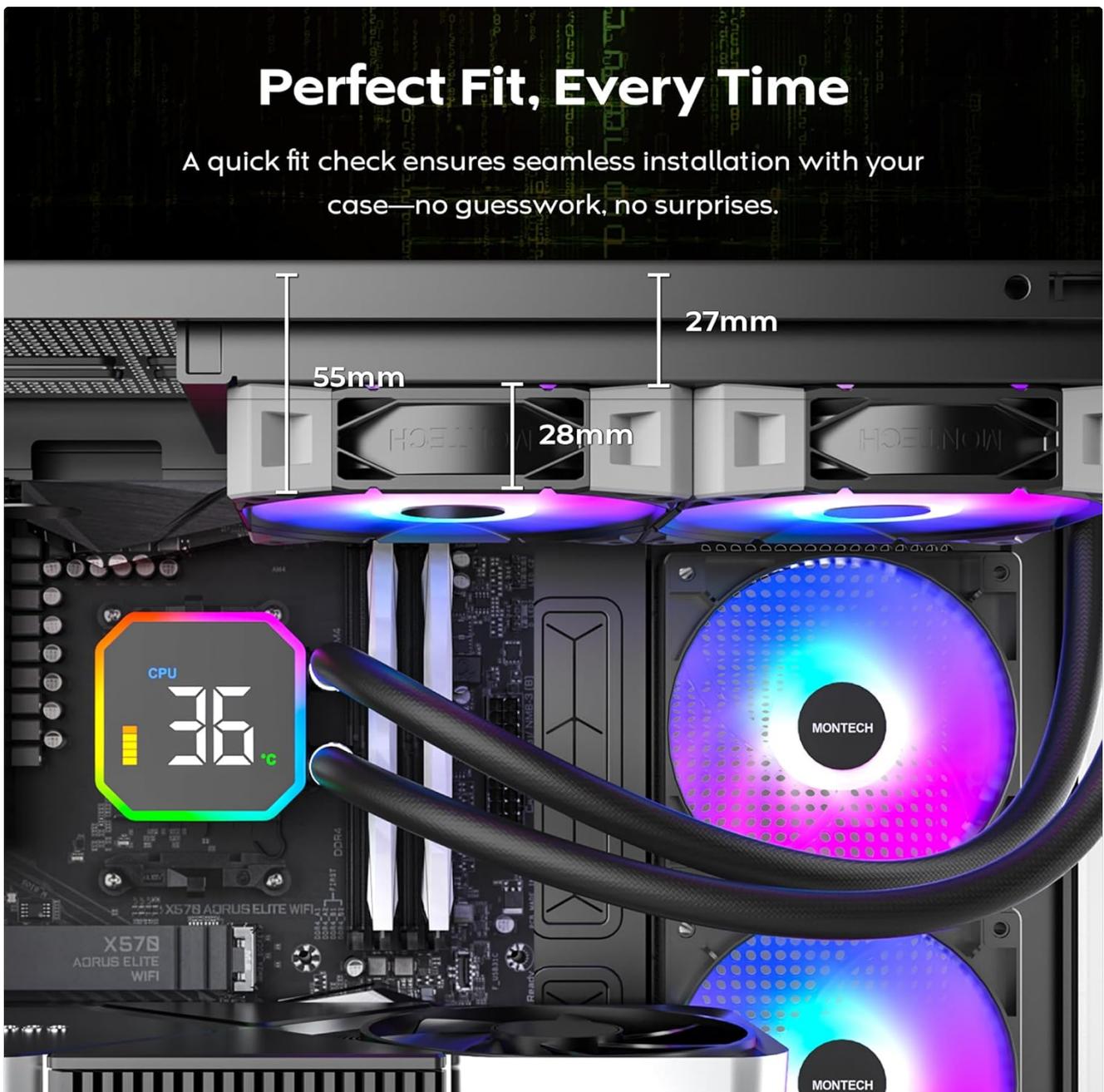

Image: Illustration of radiator and fan dimensions (27mm radiator, 28mm fan thickness) to ensure proper fit within a PC case.
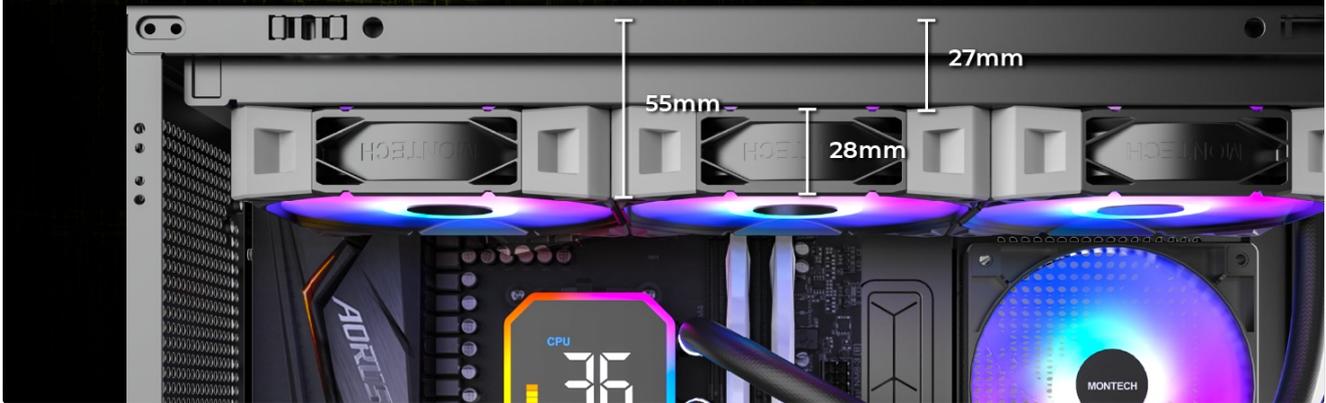
Image: A visual guide demonstrating how the radiator and fans fit into a computer case, highlighting the total thickness of 55mm.

4.3. Install the Pump/Cold Plate

The cold plate has pre-applied thermal paste. Select the appropriate mounting brackets for your CPU socket (Intel or AMD).

Quick & Clean Installation

With pre-installed fans and pre-applied thermal paste, you're ready to cool in minutes—no mess, no hassle.

Image: A close-up view of the pump and cold plate, showing the pre-applied thermal paste for convenience.

Next-Gen Socket Ready

Supports the latest Intel and AMD platforms for seamless integration with today's high-performance systems.

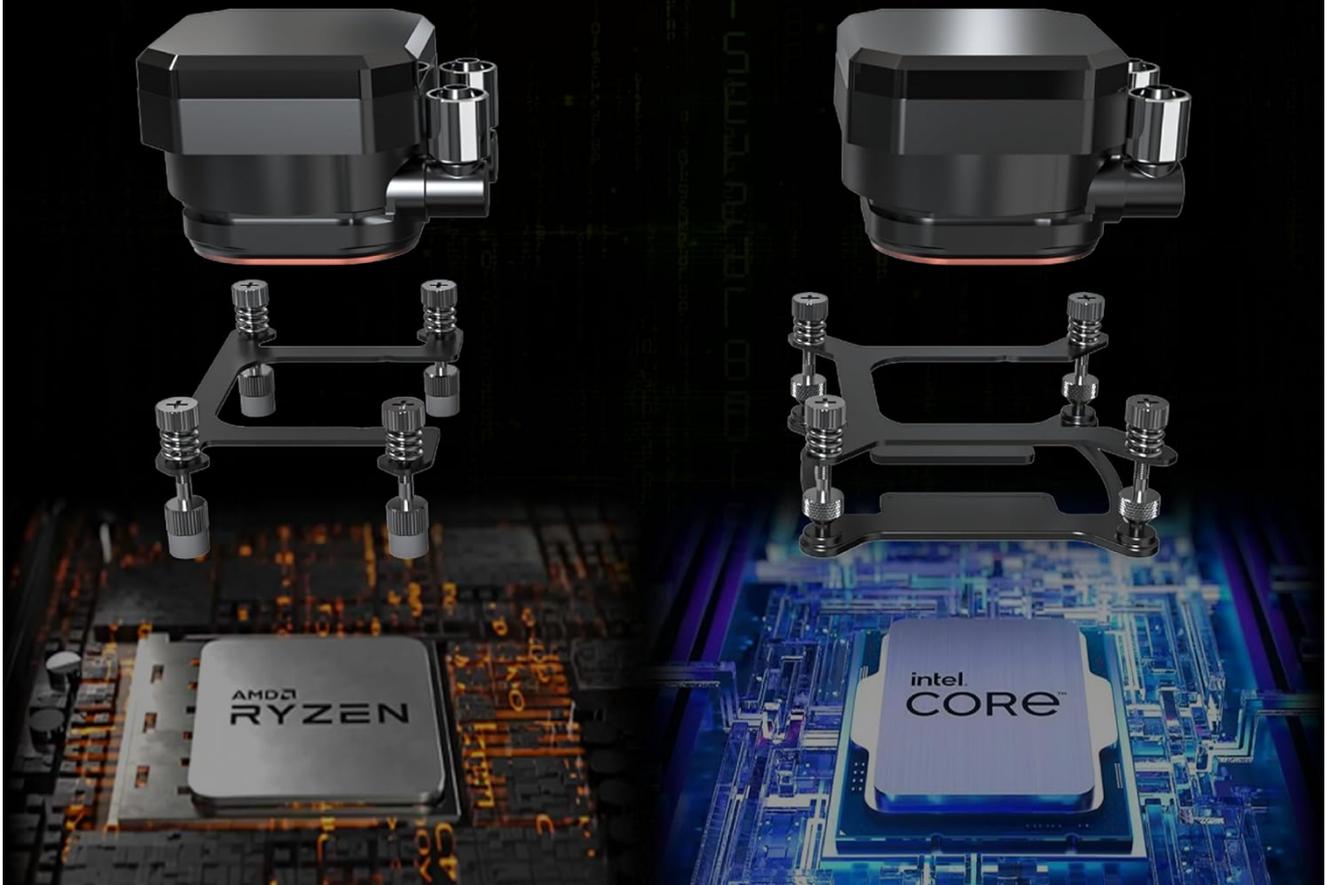Intel: 1151/ 1200/ 1700/ 1851/ 20XX
AMD: AM3/ AM4/ AM5

Image: Visual representation of the different mounting brackets for Intel (1151/1200/1700/1851/20XX) and AMD (AM3/AM4/AM5) sockets.

Next-Gen Socket Ready

Supports the latest Intel and AMD platforms for seamless integration with today's high-performance systems.

Intel: 1151/ 1200/ 1700/ 1851/ 20XX
AMD: AM3/ AM4/ AM5

Image: A detailed diagram showing the compatibility of the cooler with various Intel and AMD CPU sockets.

4.4. Connect Cables

Connect the pump's USB cable to a Motherboard USB 2.0 header. Connect the fan and ARGB cables to appropriate headers on your motherboard or a compatible controller.
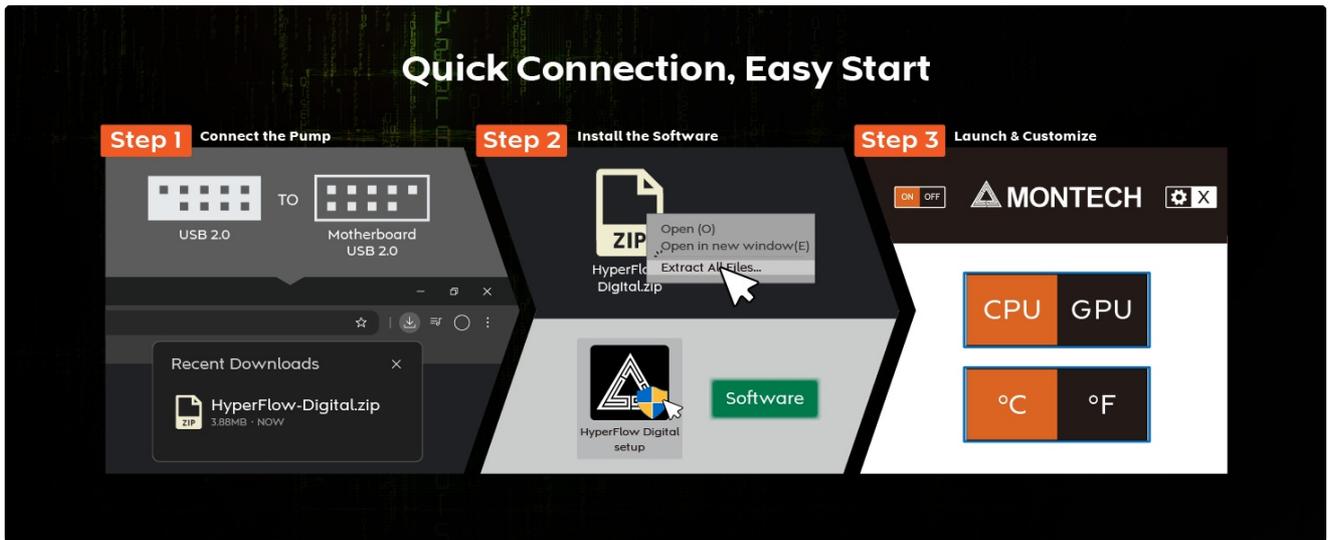

Image: Step-by-step guide for connecting the pump to the motherboard's USB 2.0 header and installing the necessary software.

5. OPERATING INSTRUCTIONS

5.1. Digital Display Monitoring

The integrated digital display provides real-time monitoring of your CPU and GPU temperatures. This allows for quick assessment of your system's thermal performance.

Real-Time Monitoring, at a Glance

Stay in control with a built-in digital display that shows real-time CPU and GPU temperatures, with an easy switch between Celsius and Fahrenheit display modes.
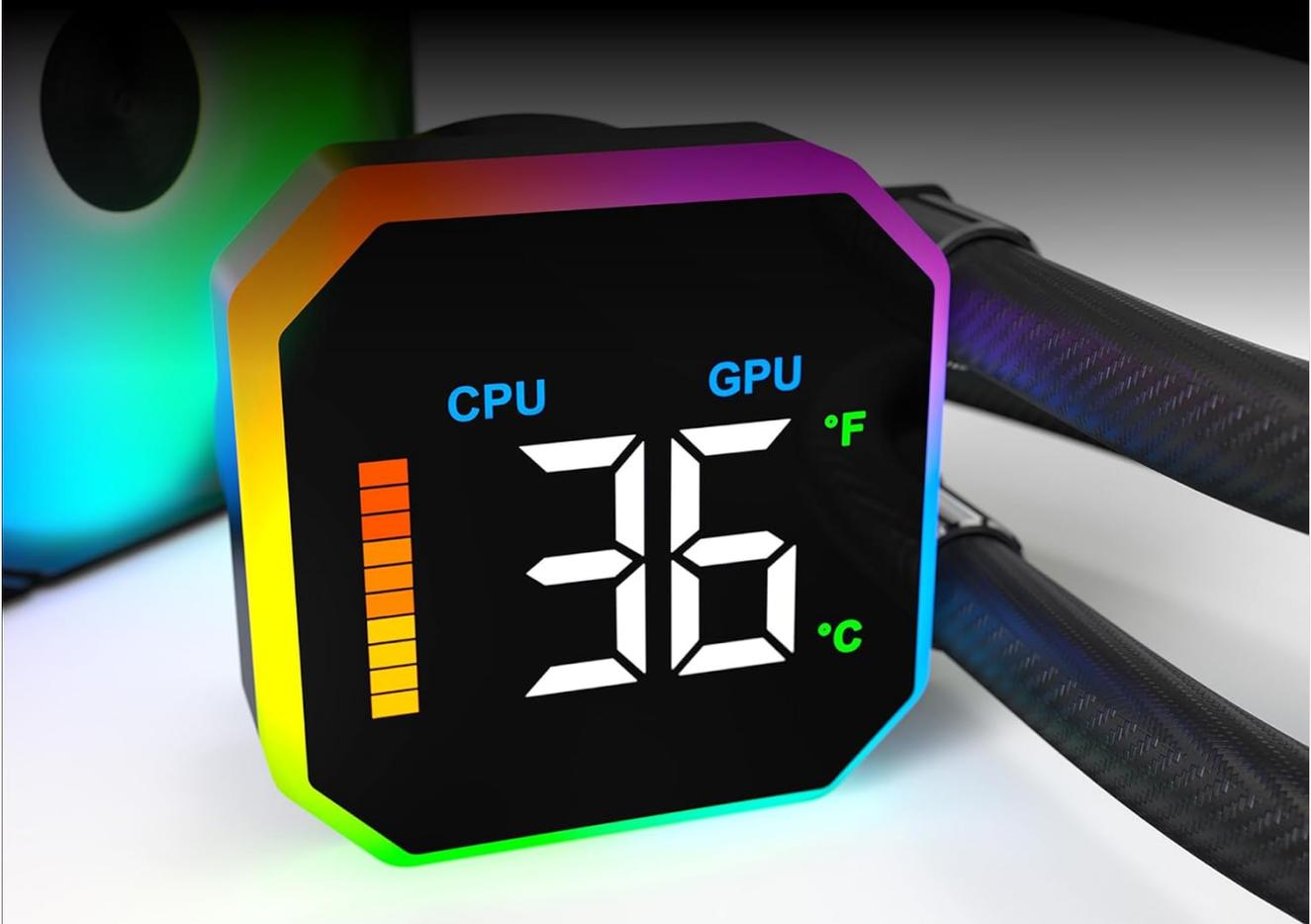

Image: The digital display on the pump head showing real-time CPU temperature and a temperature bar graph.

Image: A close-up view of the digital display, clearly showing the CPU temperature reading.

5.2. Temperature Unit Switching

The display allows for quick switching between Celsius (°C) and Fahrenheit (°F) temperature units. Refer to the software interface for this setting.
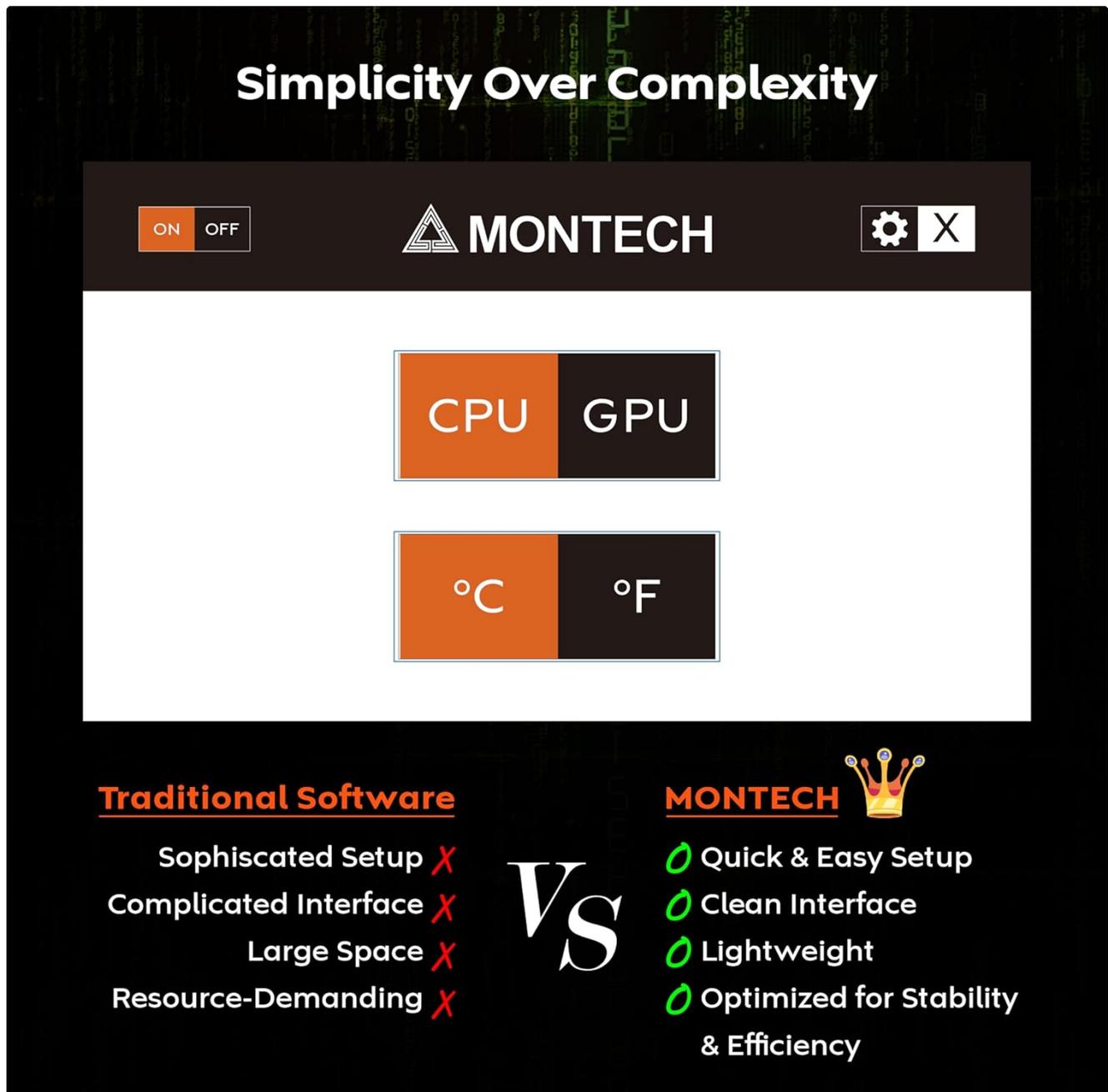

Image: The software interface demonstrating the options to switch between CPU/GPU temperature display and Celsius/Fahrenheit units.

5.3. Fan Performance

The E28 performance fans operate up to 2200 RPM, providing strong airflow and static pressure for efficient heat dissipation. Fan speeds are typically controlled via PWM signals from the motherboard or dedicated fan controller.

Image: Details of the E28 ARGB Performance Fan, highlighting its fan speed, static pressure, and airflow capabilities.

Image: A visual representation of the fan's operational speed range (800-2200 RPM) and its 28mm thickness.

6. Maintenance

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

- **Dust Cleaning:** Periodically clean dust from the radiator fins and fan blades using compressed air. Ensure fans are not spinning during cleaning to prevent damage.
- **Visual Inspection:** Regularly check the tubing for any signs of kinks, leaks, or damage. Inspect the pump block for secure mounting.
- **Thermal Paste:** The cooler comes with pre-applied thermal paste. If you need to remount the cold plate, clean off the old thermal paste from both the CPU and cold plate, and apply a new layer of high-quality thermal paste.

7. Troubleshooting

If you encounter issues with your MONTECH HyperFlow Digital 240, refer to the following common troubleshooting steps:

1. **No Display/Incorrect Temperature Readings:**

   - Ensure the USB 2.0 cable from the pump is securely connected to a motherboard header.
   - Verify that the MONTECH software is correctly installed and running.
   - Check for any software updates for the cooler.

2. **High CPU/GPU Temperatures:**

   - Confirm that the pump is running (you may feel a slight vibration or hear a low hum).
   - Check that the fans are spinning correctly and are not obstructed.
   - Ensure the cold plate is making proper contact with the CPU. Re-seat the cooler if necessary, applying new thermal paste.
   - Verify that the radiator is free of dust and has adequate airflow.

3. **Excessive Fan Noise:**

   - Check if any cables are interfering with the fan blades.
   - Ensure fans are securely mounted and not vibrating against the case.
   - Adjust fan curves in your motherboard's BIOS or fan control software to reduce speeds at lower temperatures.

4. **ARGB Lighting Not Working:**

   - Ensure all ARGB cables are correctly connected to the motherboard's ARGB header or a dedicated controller.
   - Check your motherboard's ARGB software or dedicated controller software for lighting settings.

8. Warranty and Support

The MONTECH HyperFlow Digital 240 CPU Liquid Cooler comes with a **6-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
For technical support, warranty claims, or further assistance, please visit the official Montech website or contact their customer service department. You can also visit the **Montech Store on Amazon** for product information and support resources.

9. Official Product Video

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Video: An official product video showcasing the features and functionality of the MONTECH HyperFlow Digital Liquid AIO CPU Cooler. This video demonstrates the real-time temperature display, fan performance, and overall design.