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> Noctua NH-U14S, Premium CPU Cooler with NF-A15 140mm Fan (Brown)

Noctua NH-U14S

Noctua NH-U14S CPU Cooler User Manual

Model: NH-U14S | Brand: Noctua

1. INTRODUCTION

The Noctua NH-U14S is a premium 140mm single-tower CPU cooler designed for exceptional cooling performance and quiet operation. Its slim profile ensures high compatibility with various system configurations, including tall RAM modules. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your NH-U14S cooler.



Image: The Noctua NH-U14S CPU Cooler, showcasing its large heatsink and NF-A15 fan.

2. PRODUCT FEATURES

- Award-winning, slim 140mm single-tower design combining outstanding cooling performance with superb quietness of operation and excellent RAM compatibility.
- Does not overhang the RAM slots on AM5 and AM4 motherboards, ensuring full compatibility with tall modules.
- Highly optimised NF-A15 140mm fan with PWM support and Low-Noise Adaptor for automatic speed control and ultra-quiet operation.
- Includes high-end NT-H1 thermal paste and SecuFirm2 mounting system for easy installation on Intel

LGA1851, LGA1700, LGA1200, LGA115x and AMD AM5 & AM4 (offset mounting option for best efficiency).

- Renowned Noctua quality backed up by 6-year manufacturer's warranty, a deluxe choice for Intel Core & Core Ultra and AMD Ryzen processors.

3. PACKAGE CONTENTS

Please verify that all items listed below are present in your package:

- NH-U14S heatsink
- NF-A15 PWM 140mm premium fan
- SecuFirm2™ multi-socket mounting system for Intel and AMD
- NT-H1 thermal compound
- Low-Noise Adaptor (L.N.A.)
- Installation-kit for second NF-A15 fan (optional)



Image: All components included with the Noctua NH-U14S CPU Cooler, including the heatsink, fan, and mounting hardware boxes.

4. SETUP

4.1 Pre-Installation Checklist

- Ensure your motherboard and PC case are compatible with the NH-U14S dimensions (150mm x 165mm x 52mm).
- Gather necessary tools: screwdriver, cleaning alcohol (for CPU surface).
- Refer to the detailed installation manual provided by Noctua for your specific CPU socket (Intel or AMD).

4.2 Mounting the SecuFirm2™ System

The SecuFirm2™ mounting system provides secure and reliable installation. Follow the instructions specific to your CPU socket type (Intel or AMD) as outlined in the separate mounting manual included in your package.

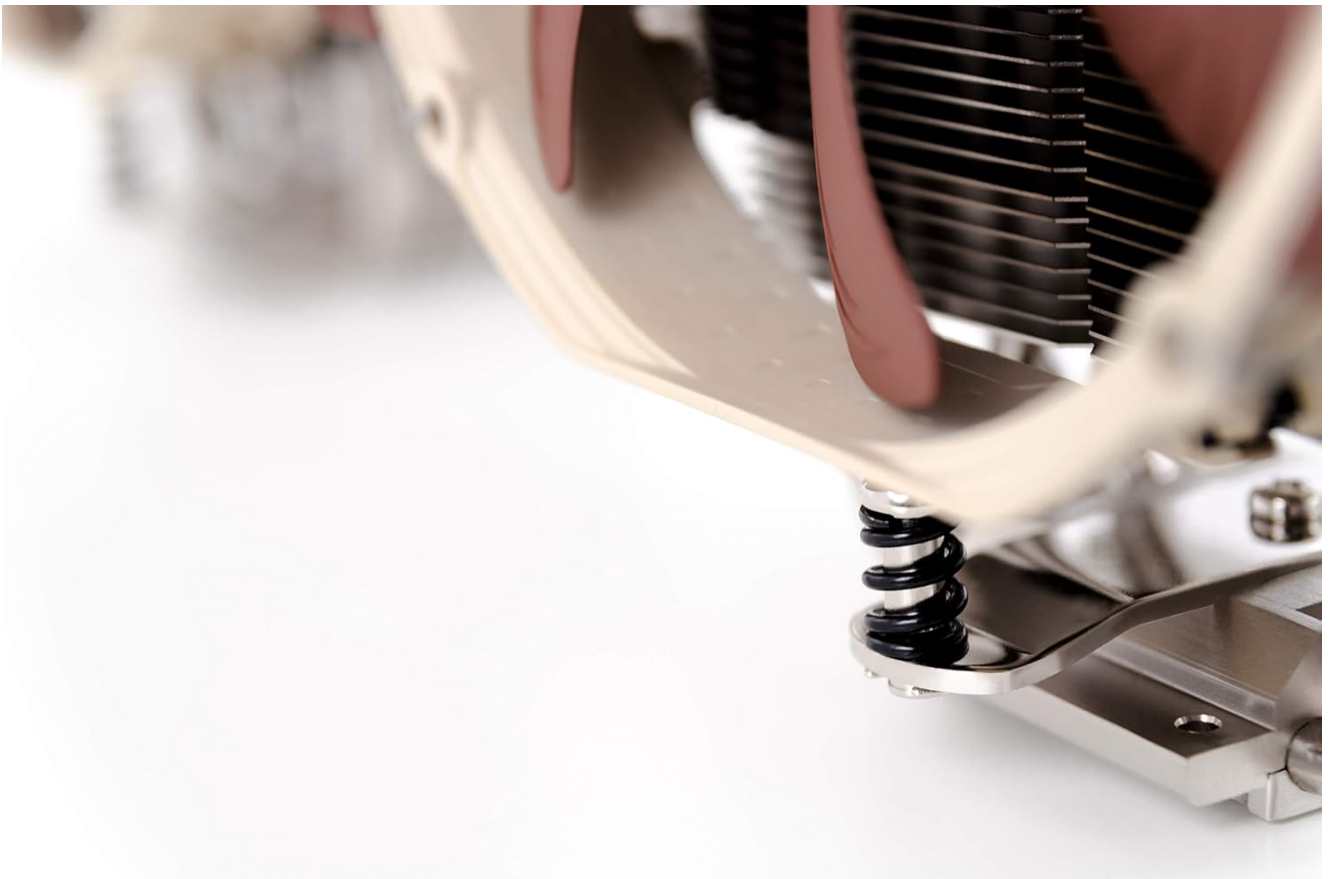


Image: A close-up view of the spring-loaded screws on the Noctua NH-U14S, part of the SecuFirm2 mounting system.

4.3 Applying Thermal Paste

Apply a small amount of the included NT-H1 thermal compound to the center of your CPU's integrated heat spreader (IHS). The pressure from the cooler will spread it evenly. Do not spread it manually.



Image: Illustrates the application of NT-H1 thermal paste onto a CPU for optimal heat transfer.

4.4 Attaching the Fan

Attach the NF-A15 fan to the heatsink using the provided fan clips. Ensure the fan is oriented to blow air through the heatsink fins towards the rear of your PC case for optimal airflow.

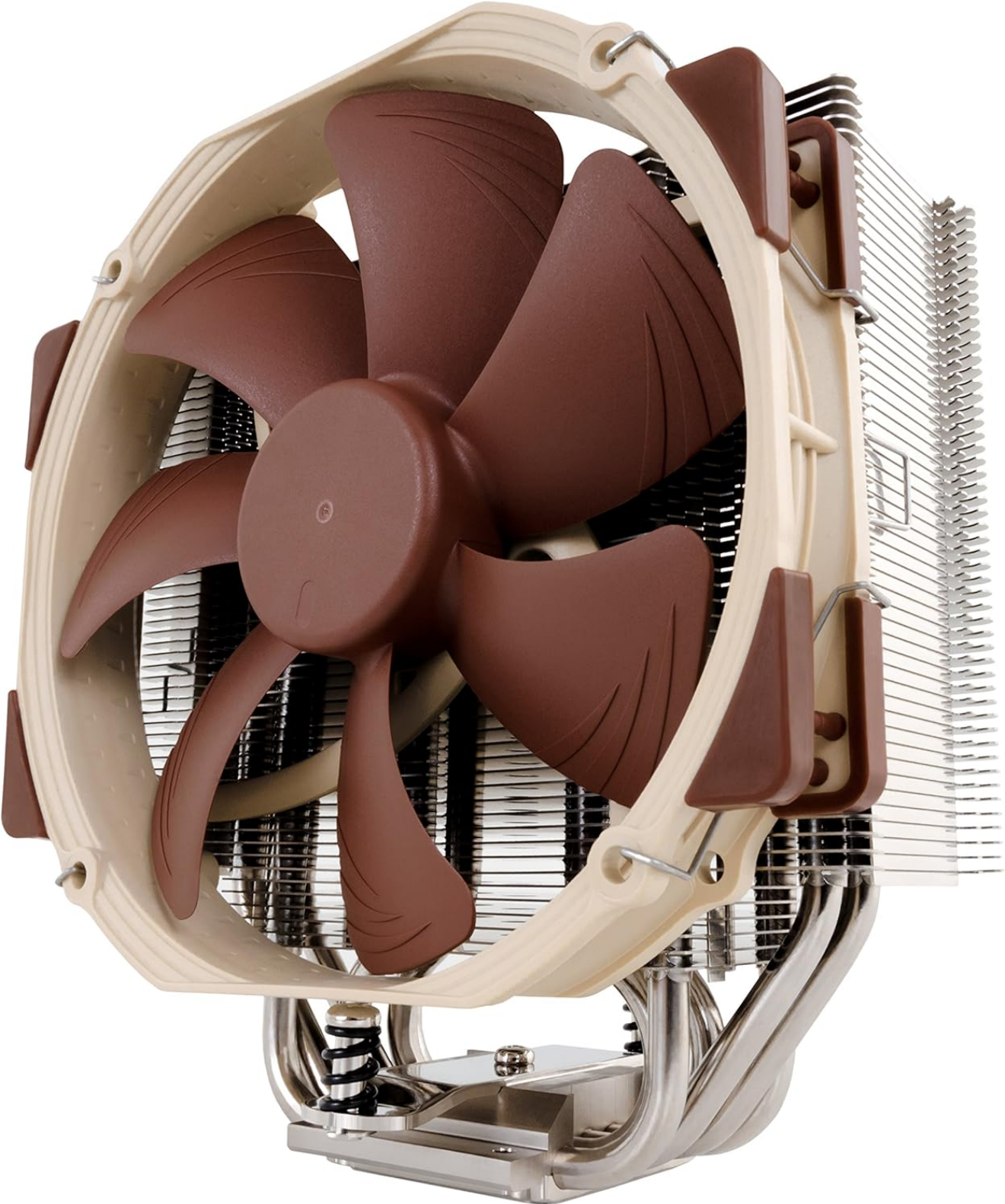


Image: The Noctua NH-U14S CPU Cooler with the NF-A15 fan attached, showing the fan's brown and beige color scheme.



Image: Top-down view of the Noctua NH-U14S CPU Cooler, highlighting the fan's design and heatsink fin array.

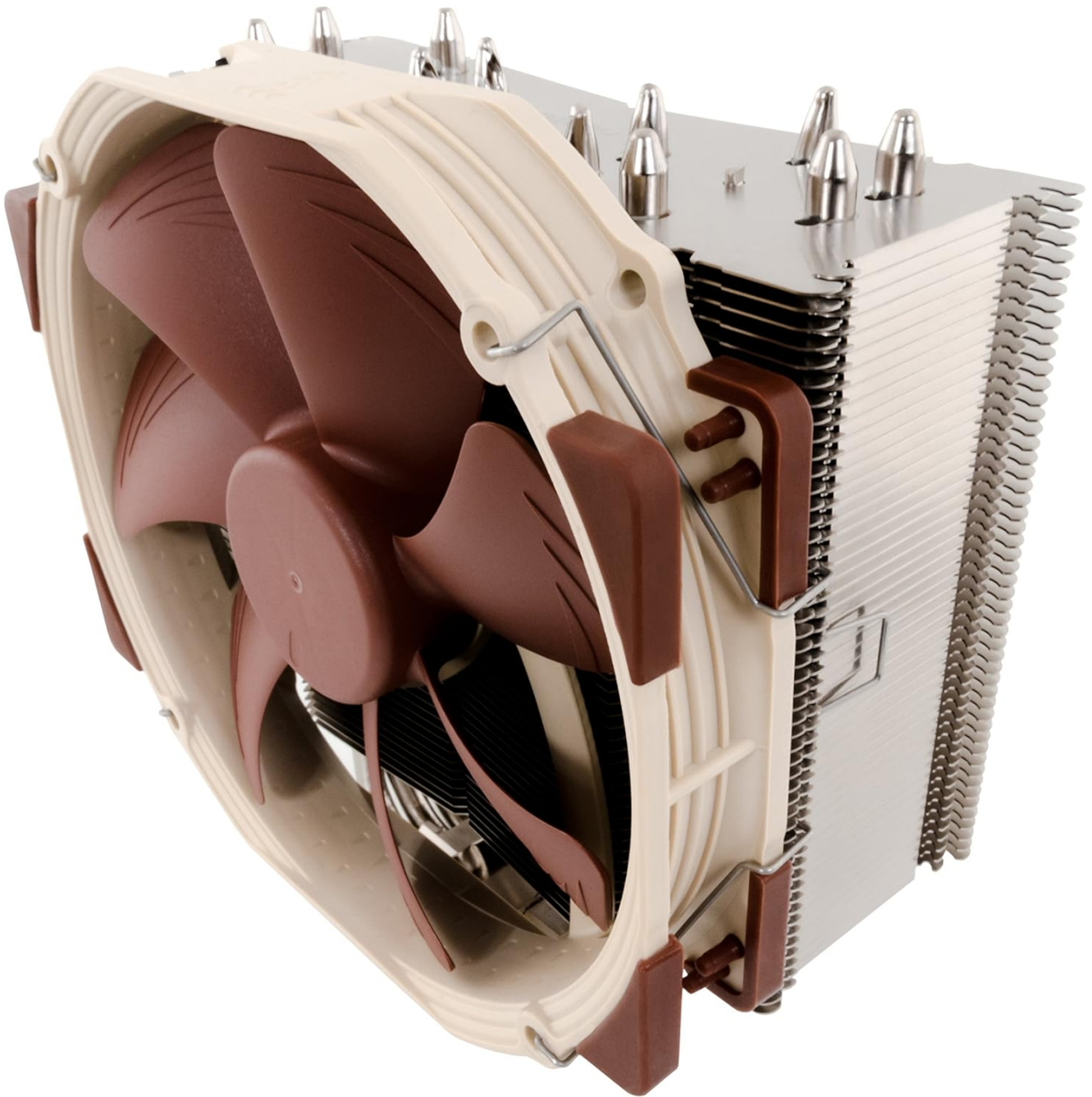


Image: Side view of the Noctua NH-U14S CPU Cooler, showing the heatsink's slim profile and the fan's attachment points.

4.5 Installation Video Guide

For a visual step-by-step guide on installing the Noctua NH-U14S, please watch the official installation video below:

Video: Official installation guide for the Noctua NH-U14S CPU Cooler, demonstrating the mounting process and fan attachment.

5. OPERATING INSTRUCTIONS

The Noctua NH-U14S is designed for quiet and efficient operation. The NF-A15 fan supports PWM (Pulse-Width Modulation), allowing your motherboard to automatically control its speed based on CPU temperature. Connect the fan's 4-pin connector to your motherboard's CPU fan header.

5.1 Low-Noise Adaptor (L.N.A.)

For even quieter operation, you can use the included Low-Noise Adaptor (L.N.A.) to reduce the fan's maximum

speed. Connect the L.N.A. between the fan and the motherboard's fan header.

5.2 Monitoring Temperatures

Regularly monitor your CPU temperatures using system monitoring software to ensure optimal cooling performance. Ideal idle temperatures are typically between 30-45°C, and under load, they should remain below 80°C, depending on your CPU model and workload.

6. MAINTENANCE

To maintain optimal cooling performance, periodic cleaning of your NH-U14S cooler is recommended.

- **Dust Removal:** Use compressed air or a soft brush to remove dust from the heatsink fins and fan blades every 3-6 months, or more frequently in dusty environments. Ensure the fan is not spinning rapidly during cleaning with compressed air.
- **Fan Cleaning:** The NF-A15 fan can be easily detached from the heatsink by releasing the fan clips for thorough cleaning.
- **Thermal Paste:** Re-applying thermal paste is generally not necessary unless the cooler is removed or re-seated. If you do re-apply, ensure the CPU surface is clean before application.



Image: A detailed view of the Noctua NF-A15 fan blades, showing their optimized design for airflow and quiet operation.

7. TROUBLESHOOTING

7.1 High CPU Temperatures

- **Check Fan Connection:** Ensure the NF-A15 fan is securely connected to the CPU fan header on your motherboard.
- **Thermal Paste Application:** Verify that thermal paste was applied correctly and evenly. Re-apply if necessary.
- **Heatsink Contact:** Ensure the heatsink base makes full and firm contact with the CPU's IHS. Check mounting pressure.

- **Airflow:** Confirm proper case airflow. Ensure intake and exhaust fans are correctly oriented.
- **Dust Buildup:** Clean any dust from the heatsink fins and fan blades.

7.2 Excessive Fan Noise

- **L.N.A. Usage:** Use the included Low-Noise Adaptor to reduce fan speed and noise.
- **BIOS/UEFI Settings:** Adjust fan curves in your motherboard's BIOS/UEFI settings to optimize fan speed for noise levels.
- **Obstructions:** Check for any cables or objects obstructing the fan blades.

8. SPECIFICATIONS

Attribute	Value
Product Dimensions	5.91"L x 6.5"W x 3.07"H
Brand	Noctua
Power Connector Type	4-Pin
Voltage	12 Volts
Cooling Method	Air
Compatible Devices	Desktop
Noise Level	24.6 dB
Material	Copper (base and heat-pipes), aluminium (cooling fins), soldered joints & nickel plating
Maximum Rotational Speed	1500 RPM
Air Flow Capacity	140.2 CMPH
Item Weight	2.06 pounds
Color	Brown
Model Number	NH-U14S



Image: Technical drawing illustrating the dimensions of the Noctua NH-U14S CPU Cooler.

9. WARRANTY

The Noctua NH-U14S CPU Cooler is backed by a **6-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. For detailed warranty terms and conditions, please refer to the official Noctua website or contact their customer support.

10. SUPPORT

For further assistance, technical support, or to access additional resources, please visit the official Noctua website:

www.noctua.at

You may also find helpful information and FAQs on the product's Amazon page or by contacting Amazon customer service.