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COOSPIDER CTUV-D80

COOSPIDER 80W HVAC Duct UVC Light (Model CTUV-D80)

Instruction Manual

1. Introduction

The COOSPIDER 80W HVAC Duct UVC Light is designed to enhance indoor air quality by sanitizing the air within your heating, ventilation, and air conditioning (HVAC) system. This device utilizes powerful ultraviolet-C (UVC) light to neutralize airborne contaminants, contributing to a cleaner and healthier environment in various spaces.



Image: COOSPIDER 80W UV Light purifying air in a home setting.

Your browser does not support the video tag.

Video: This video provides an overview of the COOSPIDER 80W HVAC Duct UVC Light, highlighting its features and benefits for air sanitization.

2. Important Safety Instructions

Please read and understand all safety warnings before installing or operating this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **UVC Radiation Hazard:** Do not expose eyes or skin to the working UV light. UVC light can cause severe eye and skin damage.

- **Keep Away:** Ensure all people, pets, and plants are kept away from the UV light when it is operating.
- **Professional Installation Recommended:** Installation should be performed by a qualified HVAC technician or electrician to ensure proper and safe integration into your duct system.
- **Power Disconnection:** Always disconnect power to the HVAC system before performing any installation, maintenance, or bulb replacement.
- **Duct Diameter:** Measure your duct diameter and available installation space carefully before ordering and installing to ensure proper fit and performance. The lamp length is 13.7 inches.
- **Bulb Handling:** Handle UV bulbs with care. Avoid touching the glass with bare hands, as oils can reduce bulb effectiveness. Use gloves or a clean cloth.
- **Disposal:** Dispose of old UV bulbs according to local regulations for hazardous waste, as they may contain mercury.

3. Product Overview

The COOSPIDER CTUV-D80 is an 80W high-power UVC light designed for effective air sanitization within HVAC duct systems. It features advanced technology for superior performance and durability.

Key Features:

- **Powerful Sanitization:** Equipped with an 80W high-output UV lamp, delivering 200μW/cm² intensity for a 99.9% sanitization rate.
- **Durable Ceramic Base:** Features a high-quality ceramic base that withstands temperatures up to 60°C, ensuring minimal heat-related wear and a stable 12,000-hour lifespan. This outperforms traditional plastic bases.
- **Advanced Dual H-Tube Design:** A unique dual H-tube structure increases UV coverage by 15% and provides 10% more even light distribution compared to single-tube designs, ensuring consistent sanitization. Its robust design minimizes damage during transport or use.
- **Easy Installation & Maintenance:** Designed with a detachable ceramic base for seamless integration into duct systems. Bulb replacement is quick and simple: rotate counterclockwise to remove and replace the lamp without disassembling the entire system.
- **Versatile Application:** Suitable for various settings including HVAC systems in homes, bathrooms, bedrooms, living rooms, garages, basements, nurseries, kitchens, and children’s rooms, providing comprehensive sanitization and odor control.



Image: Comparison of COOSPIDER 80W UV light with dual H-tube design versus a standard UV light.



Image: Close-up of the ceramic base of the COOSPIDER UV light, highlighting its durability.



Image: Illustration of the dual H-tube design of the COOSPIDER UV light in an air duct.



Image: Collage showing the COOSPIDER UV light's application in homes, offices, schools, and hospitals.

4. Setup and Installation

Before beginning installation, ensure the power to your HVAC system is completely disconnected. It is recommended to have a qualified professional perform the installation.

What's in the Kit:



Image: Contents of the COOSPIDER UV light kit, including the lamp, cable, screws, and base plate.

Installation Steps:

1. **Prepare the Duct:** Choose an appropriate location in your HVAC ductwork. Using the provided base plate as a template, mark the center for the hole. The recommended hole size is approximately 3.375 inches (3 3/8 inches) in diameter.
2. **Drill the Hole:** Carefully drill a circular hole in the ductwork at the marked location. Ensure the hole is clean and free of burrs.

3. **Attach the Base Plate:** Position the base plate over the drilled hole. Secure it to the duct using the provided self-drilling screws. Alternatively, for a less invasive method, use the included double-sided tape to firmly attach the base plate to the duct surface.
4. **Insert the UV Light:** Gently insert the UV light bulb assembly into the opening of the base plate. Push it in until it is fully seated.
5. **Lock the Light:** Rotate the UV light assembly clockwise to lock it securely into the base plate. Ensure it is firmly in place to prevent accidental dislodgement.
6. **Connect Power:** Plug the power cord into a standard 110V AC wall socket. A blue indicator light on the unit should illuminate, confirming the light is operational.



Image: Four-step visual guide for installing the COOSPIDER HVAC UVC light.

Your browser does not support the video tag.

Video: This video demonstrates the step-by-step installation process for the COOSPIDER 80W HVAC Duct UVC Light, including drilling, mounting, and connecting power.

5. Operating Instructions

The COOSPIDER 80W HVAC Duct UVC Light is designed for continuous operation when powered. Once installed and connected to a power source, the unit will begin emitting UVC light to sanitize the air flowing through your HVAC system.

- **Power On:** After installation, plug the unit into a 110V AC outlet. The blue indicator light on the unit will confirm it is receiving power and operating.
- **Continuous Operation:** For optimal air sanitization, the UVC light should operate whenever your HVAC system is running. Consider connecting it to a switched outlet or integrating it with your HVAC system's controls (professional installation recommended for integration).
- **Visual Check:** Periodically check the blue indicator light to ensure the unit is powered and functioning.

6. Maintenance and Bulb Replacement

Regular maintenance, primarily bulb replacement, is crucial for maintaining the effectiveness of your UVC light. The bulb has an estimated lifespan of 12,000 hours.

Bulb Replacement Steps:

1. **Disconnect Power:** ***Crucially, disconnect the power to the UVC light and the entire HVAC system before attempting any maintenance.***
2. **Unlock the Bulb:** Grasp the base of the UV light assembly and rotate it counterclockwise to unlock it from the base plate.
3. **Remove Old Bulb:** Carefully pull the entire bulb assembly out of the duct.
4. **Install New Bulb:** Insert the new COOSPIDER 80W UVC replacement bulb assembly into the base plate opening.
5. **Lock New Bulb:** Rotate the new bulb assembly clockwise until it locks securely into place.
6. **Reconnect Power:** Restore power to the HVAC system and the UVC light. Verify the blue indicator light is on.

Note: Always handle new bulbs with gloves or a clean cloth to avoid transferring oils from your skin, which can affect bulb performance and lifespan. Dispose of old bulbs responsibly according to local regulations.

7. Troubleshooting

If you encounter issues with your COOSPIDER 80W HVAC Duct UVC Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
UV Light not turning on (no blue indicator light)	No power supply Bulb not properly seated Faulty bulb	Check if the power cord is securely plugged into a working outlet. Ensure the bulb assembly is fully inserted and locked into the base plate. Replace the UV bulb if it has reached its end of life or is damaged.
Reduced sanitization effectiveness	Bulb nearing end of life Dust/debris on bulb	Replace the UV bulb if it has been in use for approximately 12,000 hours. ***With power disconnected,*** carefully wipe the bulb with a clean, dry cloth to remove any dust.

Problem	Possible Cause	Solution
Difficulty inserting/removing bulb	Incorrect rotation	Ensure you are rotating the bulb assembly counterclockwise to unlock and clockwise to lock. Do not force the unit.

8. Technical Specifications

Feature	Specification
Brand	COOSPIDER
Model Number	CTUV-D80W
Wattage	80 watts
Voltage	110 Volts
Light Color	White (UVC)
Lighting Method	UV-C
Material	Ceramic (Base)
Bulb Base	Flanged
Control Method	Touch (for indicator, primary control via power)
Installation Type	Duct Mount
Indoor Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant
Brightness	6500 lumen
Efficiency	81.25 lumens per watt

9. Warranty Information

Specific warranty details for the COOSPIDER 80W HVAC Duct UVC Light are not provided in this manual. For information regarding product warranty, including coverage period and terms, please refer to the product packaging, the manufacturer's official website, or contact the seller directly.

10. Customer Support

If you have any questions, require technical assistance, or need to report an issue with your COOSPIDER 80W HVAC Duct UVC Light, please contact the seller or manufacturer through the platform where the product was purchased. Provide your product model number (CTUV-D80) and purchase details for faster service.

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