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RESIDEO 36WJ91

Honeywell UV2400U1000 24V UV Air Purifier User Manual

Model: 36WJ91 | Brand: RESIDEO

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Honeywell UV2400U1000 24V UV Air Purifier. This device is designed to integrate with your central air system's ductwork to improve indoor air quality.
The UV Air Purifier utilizes advanced Photocatalytic Oxidation (PCO) technology, combining germicidal UV light to reduce airborne odors, toxic chemical vapors, germs, and mold. It also works with activated carbon cells to reduce volatile organic compounds (VOCs) in the air, contributing to a healthier living environment and enhanced HVAC system efficiency.

2. Safety Information

Please read all safety instructions carefully before installation and operation to prevent injury or damage to the unit.

- **Electrical Hazard:** Always disconnect power to your HVAC system at the circuit breaker before performing any installation, maintenance, or service on the UV Air Purifier. Failure to do so can result in electric shock or serious injury.
- **UV Radiation:** The UV lamp emits ultraviolet light, which can be harmful to eyes and skin.**DO NOT look directly at the illuminated UV lamp.** Ensure the lamp is off or completely shielded before viewing or handling.
- **Lamp Operation:** The UV lamp is designed to be continuously on when the system is powered. A translucent viewing port is provided on the holder to verify lamp operation without direct exposure to UV light.
- **Professional Installation:** If you are not comfortable with electrical wiring or HVAC systems, it is recommended to seek assistance from a qualified HVAC professional.
- **Product Integrity:** Do not modify the product in any way. Use only genuine Honeywell replacement parts.

3. Product Overview

The Honeywell UV2400U1000 is a 24V UV Air Purifier designed for integration into your home's central heating, ventilation, and air conditioning (HVAC) system. It targets airborne contaminants at their source within the ductwork.



Figure 3.1: The Honeywell UV2400U1000 UV Air Purifier. This image shows the main housing unit in grey with the Honeywell logo, and the long, clear UV lamp extending horizontally from it. The lamp emits a blue light, indicating operation. The housing unit has mounting points and a circular vent pattern visible on the side where the lamp connects.

Key Features:

- **Germicidal UV Light:** Inhibits the growth of mold spores and certain bacteria by up to 99% within the duct system.
- **Advanced Photocatalytic Oxidation (PCO) Technology:** Utilizes UV light in conjunction with activated carbon cells to reduce Volatile Organic Compounds (VOCs).
- **SnapLAMP Technology:** Features a replacement lamp handle with a detachable lamp for easy and safe replacement.
- **Universal Installation:** Designed for versatile internal or external mounting within the ductwork.
- **Low Voltage Operation:** Operates on 24V, compatible with most HVAC control systems.
- **Continuous Operation:** The UV lamp remains illuminated when the system is powered, providing constant air treatment within your ductwork.

4. Setup and Installation

The UV2400U1000 is designed for installation within the ductwork of your central air system. Ensure you have basic electrical and mechanical skills or consult a professional.

Installation Steps:

1. **Power Disconnection:** Before beginning any work, turn off the power to your HVAC system at the main circuit breaker to prevent electrical shock.
2. **Location Selection:** Choose an appropriate location within your HVAC ductwork for either internal or external mounting. Ensure sufficient space for the unit and future lamp replacement.
3. **Duct Preparation:** If internal mounting, you may need to cut a hole (approximately 5/8 inch diameter) in the ductwork for the insertion of the lamp. Ensure the hole is clean and free of burrs.
4. **Mounting the Unit:** Secure the main housing unit to the ductwork using appropriate fasteners. The unit may feature magnets for temporary positioning during installation.
5. **Electrical Connection:** The unit operates on 24V AC. Connect the red wire from the UV light to the 24V power

source, typically the 'G' (fan) terminal on your HVAC control board, or a dedicated 24V transformer. Connect the black wire to the 'C' (common) terminal on the control board or the 0V side of the transformer. This configuration allows the UV light to operate when the HVAC fan is running.

6. **Lamp Insertion:** Carefully insert the UV lamp into the housing unit and secure it according to the SnapLAMP mechanism. Ensure the lamp is fully seated.
7. **Power Restoration:** Once installation is complete and all connections are secure, restore power to your HVAC system at the circuit breaker.

5. Operating Instructions

The Honeywell UV2400U1000 UV Air Purifier is designed for continuous, automatic operation once properly installed and powered.

- **Automatic Activation:** The UV lamp will illuminate and begin purification when power is supplied to the unit, typically when your HVAC system's fan is active.
- **Continuous Purification:** The lamp is designed to be "Always On" when the system is powered, providing ongoing air treatment within your ductwork.
- **Operation Indicator:** A translucent viewing port on the unit's holder allows you to visually confirm that the UV lamp is illuminated and functioning without direct exposure to UV light.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your UV Air Purifier.

Lamp Replacement:

The UV lamp has a limited lifespan and its effectiveness diminishes over time. It is recommended to replace the lamp annually to maintain peak performance.

1. **Power Off:** Always disconnect power to your HVAC system at the circuit breaker before attempting lamp replacement.
2. **Access Lamp:** The SnapLAMP technology allows for easy removal. Gently turn the lamp holder to release it from the main unit.
3. **Remove Old Lamp:** Detach the old lamp from the handle. Dispose of the old lamp according to local regulations for fluorescent bulbs.
4. **Install New Lamp:** Attach the new genuine Honeywell replacement lamp to the handle.
5. **Reinsert Lamp:** Carefully reinsert the new lamp assembly into the main unit, ensuring it clicks securely into place.
6. **Restore Power:** Restore power to your HVAC system. Verify the new lamp is illuminated through the viewing port.

7. Troubleshooting

If your Honeywell UV Air Purifier is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
UV lamp is not illuminated.	No power to the unit. Lamp is at end of life or faulty. Loose electrical connection.	Check HVAC system power and circuit breaker. Verify HVAC fan is running. Replace lamp if it's been over a year or if it's visibly broken. Ensure all electrical connections are secure (after disconnecting power).
Unit does not seem to be purifying air.	Lamp is not working. Incorrect installation.	Verify lamp illumination through the viewing port. Review installation steps, especially electrical wiring, to ensure correct setup.

If issues persist after following these steps, contact a qualified HVAC technician or Honeywell customer support.

8. Specifications

Attribute	Detail
Model Number	36WJ91
Brand	RESIDEO
Manufacturer	Honeywell
Product Dimensions (approx.)	5"D x 6"W x 6"H (main unit)
Weight	1.85 Pounds
Voltage	24V
Wattage	16 watts
Filter Type	UV Light
Color	Grey

9. Warranty and Support

This Honeywell UV Air Purifier comes with a**5-Year Manufacturer Warranty**. For warranty claims, technical support, or to purchase genuine replacement parts, please contact Honeywell customer service or visit their official website.
Please retain your proof of purchase for warranty purposes.

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