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FIELD CONTROLS UV-500C Owner's Manual

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UV-AIRE® AIR PURIFYING SYSTEM

Model: UV-500C

*For best results, operate the UV-500 continuously 24 hours a day.

UV-500C Features



- 1 8" germicidal UV lamp
- 2 10"x10" high-efficiency/carbon filter
- 3 Heavy-duty three speed fan
- 4 Visual lamp and filter condition
- 5 Adjustable fan control
- 6 Built in handles for easy portability
- 7 Non-skid rubber feet

ITEMS INCLUDED IN SYSTEM:

- 1-UV-Aire UV-500C unit
- 1-Ultra Violet Lamp Individually Boxed
- 1-Instruction Sheet
- 4-10"x 10"x 1" Filters
- 1-Bagged Parts: containing lamp connector, alcohol swab and access door screw



The high intensity ultraviolet light attacks airborne mold, bacteria, and viruses. The high efficiency filter traps allergens, dust, and pollen. The carbon filter removes odors and attacks VOCs (volatile organic compounds).

LEAVE THE INSTALLATION INSTRUCTIONS WITH THE OWNER/OPERATOR OF THE DEVICE.
AFTER OPENING THE CARTON, UNPACK AND INSPECT THE UNIT AND LAMP FOR DAMAGE.
DO NOT INSTALL THIS UNIT IF ANY DAMAGE IS NOTICEABLE.

SAFETY CONSIDERATIONS

- WARNING:** Never expose eyes or skin to UVC light from any source.
 - Looking directly at the UVC light may cause permanent eye damage or blindness.
 - Never operate the UV-Aire Air Purifying System with the UV lamp access door open.
- WARNING:** DO NOT mount this unit outdoors.
 - This product is designed for indoor installation only.
- WARNING:** To avoid electrical shock hazard, do not operate in wet environment.

This product is not sold as a medical device and is not for the purpose of diagnosis of any disease or condition nor for use in the mitigation, treatment, or prevention of any disease or condition.

READ THESE INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE PROCEEDING WITH THE INSTALLATION.

This device MUST be installed by a qualified agency in accordance with the manufacturer's installation instructions. The definition of a qualified agency is: any individual, firm, corporation or company which either in person or through a representative is engaged in, and is responsible for, the installation and operation of HVAC appliances, who is experienced in such work, familiar with all the precautions required, and has complied with all the requirements of the authority having jurisdiction.

Please retain these instructions after installation.

Installed By: _____ Phone: _____ Installation Date: _____



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INDICATION FOR USE

This product is not sold as a medical device and is not for the purpose of diagnosis of any disease or condition nor for use in the mitigation, treatment, or prevention of any disease or condition.

GENERAL INFORMATION

Model	Volts	Amps	Hz	Watts	Lamp Intensity at 1 meter	Recommended Max. Sq. Feet	Weight	Width (Inches)	Height (Inches)	Depth (Inches)
UV-500C	120	.4	60	38	15 μ W/cm ²	500	11 Lbs	12	15	13

FEATURES

1. The UV-500C is equipped with a three speed control to allow the user to adjust the airflow through the unit from 30 cfm to 70 cfm. Any speed is effective in rooms up to 500 square feet
2. The UV-500C is equipped with a circuit board to monitor the operation of the UV lamp and the operation time until the filter or lamp needs to be changed.

UV-500C SET UP PROCEDURE

1. Remove the lamp from the top carton pad.
2. Remove the lamp connector from the bagged parts provided.
3. Remove the UV-500C from its protective plastic bag.



WARNING: DO NOT PLUG INTO WALL OUTLET!

4. Connect the UV lamp to the lamp connector knob. (See Figure 1)



Figure 1

5. Clean the lamp with the alcohol swab provided. (See Figure 2)

NOTE: Dirt and fingerprints will reduce lamp output and effectiveness.



Figure 2

6. Open the lamp access door on the back of the unit.



WARNING: Never expose eyes or skin to UVC light from any source. Looking directly at the UVC light may cause permanent eye damage or blindness. **Never operate the UV-Aire Air Purifying System out of the plenum.** Avoid touching the glass portion of the lamp with your hands.

7. Insert the ceramic tip of the lamp into the UV port and twist the lamp connector clockwise to lock in place. (See Figure 3)



Figure 3

8. With unit still UNPLUGGED, insert the lamp power connector into the recessed receptacle on the unit. (See Figure 4)



Figure 4

9. Close the access door and install the access door screw provided in the bagged parts. (See Figure 5)



Figure 5

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10. Slide the filter drawer out of the base. Remove one of the four filters from its plastic bag and place it in the drawer with arrow/carbon side up. (See Figure 6)

11. Slide the filter drawer with filter back into the base unit. Press firmly until drawer catches.



Figure 6

NOTE: The positive catch eliminates vibration and ensures proper function of the filter.

12. Unwind the power cord from underneath the unit and insert plug into any standard 120-volt outlet.

13. Turn the speed control knob clockwise to turn the unit on. After the fan has started, the LED lights will show a continuous GREEN color and the LCD will indicate 365 days left for the lamp and 90 days for the filter. (See Figure 7)

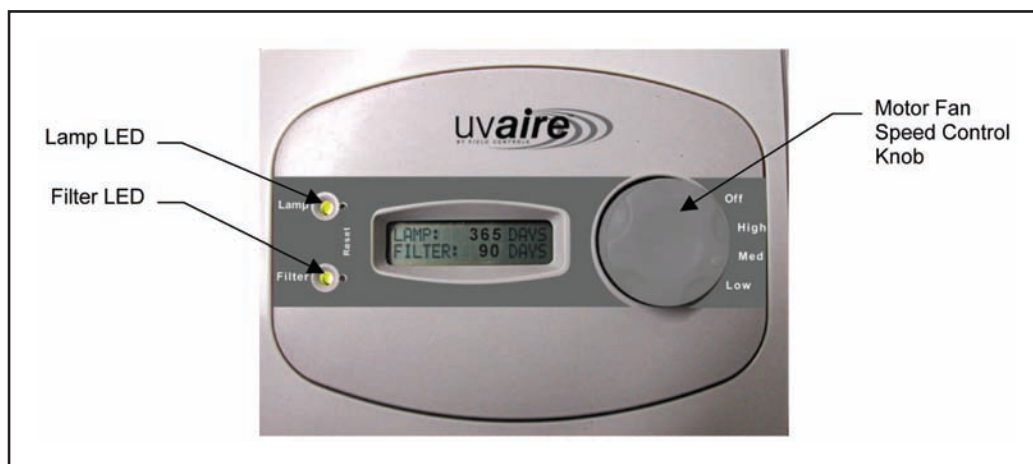


Figure 7

NOTE: If the LCD display reads differently use the point of a pen or paper clip to press the reset button beside the LED for either the lamp or the filter to reset the days as shown above.

OPERATION

1. Place the UV-500C in the desired area; plug the power cord into a standard 120-volt wall receptacle.
2. Turn the speed control knob clockwise to turn on the unit and to adjust the motor/fan speed to the desired airflow. (See Figure 7)
3. After the fan has started, the LED light for the lamp and filter will show a continuous GREEN color indicating proper unit operation.

WARNING: Never expose eyes or skin to UVC light from any source. Looking directly at the UVC light may cause permanent eye damage or blindness. **Never operate the UV-Aire Air Purifying System out of the plenum.** Avoid touching the glass portion of the lamp with your hands.

MAINTENANCE

1. Replace 10"x 10" intake filter every 90 days. The LED beside the filter indicator will turn RED and the display will say FILTER: CHANGE when it is time to replace the filter.
2. Replace your UV-Aire® Air Purifying System lamp once a year to maintain the lamp's maximum output intensity. The lamp should operate continuously for maximum lamp life and light effectiveness. The LED beside the lamp indicator will turn RED and the display will say LAMP: CHANGE when it is time to replace the lamp.



Figure 8

REPLACEMENT PROCEDURES

REPLACING THE UV LAMP



VERY IMPORTANT: Turn the speed control switch on unit to OFF position and unplug unit from outlet or turn off power to the unit before replacing the UV lamp.

1. Loosen the screw on the lamp access door on the back of the UV-500C. (See Figure 8)



Figure 9

2. Open the door to expose the lamp connection. (See Figure 9)



Figure 10



WARNING: Never expose eyes or skin to UVC light from any source. Looking directly at the UVC light may cause permanent eye damage or blindness. **Never operate the UV-Aire Air Purifying System out of the plenum.** Avoid touching the glass portion of the lamp with your hands.

3. Disconnect the lamp connection, then rotate lamp-mounting knob counterclockwise and pull the lamp out of the unit. (See Figures 10 & 11)
4. Remove lamp carefully by un-plugging the lamp from the lamp-mounting knob. (See Figure 12)



Figure 11

5. Plug the new lamp onto the lamp-mounting knob. (See Figure 12)
6. Guide the other end of the lamp through the hole in the UV chamber. (See Figure 11)
7. Secure the lamp into position by rotating the lamp-mounting knob clockwise.

NOTE: UV lamps contain a small amount of mercury, like a typical fluorescent lamp. According to the EPA's Universal Waste Rule, these types of lamps may be disposed of into household waste. Check with your local waste management authority for local disposal or recycling requirements.

8. Plug the lamp power leads back into the power connection. (See Figure 10)
 9. Close the access door and install the access door screw. (See Figure 8)
10. Plug the power cord back into the wall receptacle or restore power to the UV-500C.

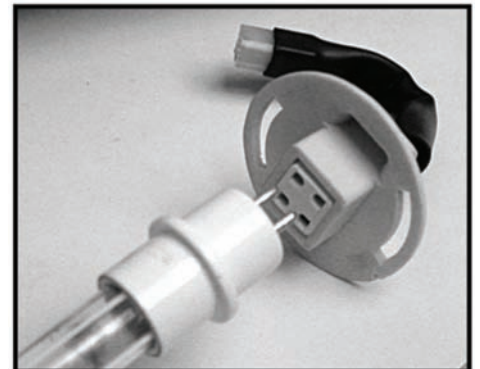


Figure 12

11. Use the point of a pen or paper clip to press the reset button beside the lamp LED. (See Figure 13)



Figure 13

WARNING: Never expose eyes or skin to UVC light from any source. Looking directly at the UVC light may cause permanent eye damage or blindness. **Never operate the UV-Aire Air Purifying System out of the plenum.** Avoid touching the glass portion of the lamp with your hands.

REPLACING AIR FILTERS

1. Pull the drawer out at the base of the unit and remove the old filter.
2. Remove the filter from its plastic bag and place the filter into the tray of the drawer with the black carbon facing up.
3. Use the point of a pen or paper clip to press the "reset" button beside the filter LED.
4. Filter LED will turn from RED to GREEN and the display will say FILTER: 90 DAYS.

REPLACEMENT PARTS KIT

Replacement Kit

- 4 high-efficiency/carbon filters
- 1 UV lamp



For replacement parts, contact your local heating service company.

Any questions, please contact Field Controls at:

PHONE: 252-522-3031 • **FAX:** 252-522-0214

EMAIL: SALES@FIELDCONTROLS.COM



WARNING: Never expose eyes or skin to UVC light from any source. Looking directly at the UVC light may cause permanent eye damage or blindness. **Never operate the UV-Aire Air Purifying System out of the plenum.** Avoid touching the glass portion of the lamp with your hands.

LIMITED WARRANTY

Field Controls, LLC ("Company") warrants that its products shall be free from defects in material and workmanship under normal use for the limited period indicated, **from the date of manufacture, subject to the provisions 1-8 below.**

Eighteen (18) months

All Field Controls Products (except for those listed below as 5 years or 90 days).

Five (5) years

Field Controls Direct Vent Systems (FDVS), Field Oil Vent Kits (FOVP), and ComboVents (CV).

Field Controls warrants that the products listed below shall be free from defects in material and workmanship under normal use for the limited period indicated, **from the date of purchase by the consumer, subject to the provisions 1-8 below.**

Ninety (90) days

UV lamps/bulbs

Provisions:

1. During the limited warranty period, Company, or its authorized service representative, will repair or replace, at Company's option, without charge, a defective Product. Product that is repaired may be repaired with new or refurbished replacement parts. Product that is replaced may be replaced with a new or refurbished product of the same or similar design. Company will return repaired or replacement Product to customer in working condition. Labor charges are not covered as part of the limited warranty.
2. With regard to UV lamps/bulbs, customer shall be required to include a "valid proof of purchase" (sales receipt) identifying the Product purchased (Product model or accurate date code information) and the date the Product(s) was purchased.
3. Product whose warranty/quality stickers, Product serial number plates or electronic serial numbers have been removed, altered or rendered illegible shall not be covered under the limited warranty.
4. Defective Product must be returned to Company, postage prepaid.
5. IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR SIMILAR DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR REVENUE, INABILITY TO USE PRODUCT, OR OTHER ASSOCIATED EQUIPMENT, THE COST OF SUBSTITUTE EQUIPMENT, AND CLAIMS BY THIRD PARTIES) RESULTING FROM THE USE OF PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
6. THIS WARRANTY AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL, WRITTEN, EXPRESS, STATUTORY OR IMPLIED. TO THE EXTENT PERMITTED BY LAW, COMPANY DISCLAIMS ALL IMPLIED AND STATUTORY WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
7. Company makes no warranty of any kind in regard to other manufacturer's products distributed by Company. Company will pass on all warranties made by the manufacturer and where possible, will expedite the claim on behalf of the customer, but ultimately, responsibility for disposition of the warranty claim lies with the manufacturer.
8. Product that has been subjected to misuse, accident, shipping or other physical damage, improper installation or application, abnormal operation or handling, neglect, fire, water or other liquid intrusion are not covered by the warranty.

The health aspects associated with the use of these products and their ability to aid in disinfecting of environmental air have not been investigated by UL.



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