UVS & UVE FIXED LAMP AIR DISINFECTION SYSTEMS OWNER'S GUIDE

Models: UVS- 1000, 2000, 1036, 2036
Models: UVE- 1000, 2000, 1036, 2036

Table of Contents:

Page 2- Shipping and Packing List, Safety Precautions
Page 3- Installation Steps for fixed Lamps
Page 4- Maintenance, Trouble Shooting
Page 5- Parts Description
Page 6- Replacement Parts, Warranty

LEAVE FOR HOMEOWNER
**Shipping and Packaging List:**
- UVS or UVE Electrical Housing
- 6- ¾ inch 5/16 self tapping sheet metal screws
- Warning Label
- Residential Warranty Card

**UVS- 1000, 1036, 2000, 2036**
- 1000 Series- 1 9” or 16” Lamp
- 2000 Series- 2 9” or 16” Lamps
- UVS hole placement template

**UVE- 1000, 1036, 2000, 2036**
- 1000 Series- One 9” or 16” Lamp
- 2000 Series- Two 9” or 16” Lamps
- UVE hole placement template

**Safety Precautions:**
It is recommended that this unit be installed and maintained by a trained technician:

**WARNING:** UV Hazard. Always protect eyes from ultraviolet light. NEVER look at UV lamps in operation. Unplug or disconnect power before relamping or servicing.

**WARNING:** Severe eye damage or temporary blinding may occur.

**WARNING:** DO NOT operate outside of Air Handler. Mount lamp base to duct first.

**WARNING:** No openings in duct are allowed which would give direct line-of-sight to the UV light.

In the event of accidental breakage or replacement of the ultraviolet lamp, please ensure that the lamp is disposed of in accordance with local and state environmental laws regarding fluorescent lamps containing mercury.

**Notice:**
All wiring inside of the duct or air handling system in direct line of site of the UV lamp must be shielded with aluminum foil tape or equivalent non-combustible material. When installing this unit, select a mounting location that prevents ultraviolet light exposure to plastic flexible duct liner or other plastic components with unknown resistance to ultraviolet light. Ultraviolet light may cause color shift or structural degradation of plastic HVAC components.
**Installation Steps for Fixed UVC Units:**

1. Determine a suitable location to install unit. Ductwork should be of sufficient strength as to support the unit; otherwise reinforcement of the ductwork may be necessary.

2. Find "CUT-OUT-TEMPLATE" supplied with the unit. Place template over ductwork and mark hole location(s). Using a 2" hole saw, cut 2 hole(s) as shown.

3. Lift into place against ductwork. Fasten unit in place with four or six self-tapping screws (supplied). Install lamp(s) by inserting partially into unit. Lamp(s) access interior of ductwork via hole(s) cut. Clip socket onto lamp base. (As shown on page 4) Slide lamp base onto bracket.

4. **Before power is applied to the unit:** Complete step 1 if battery is not in holder.
   1. Insert coin battery (+ side out, see drawing) into battery holder on circuit board, LED should turn RED for approx. 15 seconds.
      *If LED does not turn RED rotate battery around while in holder.
   2. Depress black RESET button (hold down for 10 sec.) on circuit board, the LED should turn GREEN while the button is depressed.
   3. Release the black RESET button and the LED should return to RED and go out.

You now have set the internal clock to zero insuring an accurate measurement of lamp life operating hours.

**NOTE Lamp Replacement and Reset:** When replacing lamps after 9000 hours of operation (shut off and disconnect power to the unit) only steps 2 & 3 will be required to set the clock back to 0 to begin counting the operating hours of the new lamp.

**NOTE:** IF YOU ARE INSTALLING A UVE SERIES UNIT, SKIP STEP #4

Fasten cover of unit closed with screw. Label on front cover of unit explains Lamp monitor functions.

5. Plug in unit/ make electrical connections. THIS SHOULD BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL ELECTRICAL AND BUILDING CODES.

6. Turn on unit and inspect operation LED should be green.

"It is recommended that this unit be installed and maintained by a trained technician."
UV Lamp Monitor: (UVS SERIES ONLY)

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Audible Visual Alarm</th>
<th>Unit Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>No audible</td>
<td>OK</td>
</tr>
<tr>
<td>Solid Red</td>
<td>No Audible</td>
<td>replace lamp within 30 days</td>
</tr>
<tr>
<td>Flashing Red</td>
<td>Beep every 3 Minutes</td>
<td>Lamp has exceeded 1 yr. of operation, replace lamps and reset</td>
</tr>
<tr>
<td>Pulsing Red</td>
<td>Beep every 1 second</td>
<td>UV lamp(s) are not lit (verify if possible)</td>
</tr>
</tbody>
</table>

Please contact your local dealer or Ultravation directly for replacement lamps and batteries.
There are NO user serviceable parts inside. Refer servicing to qualified service personnel.

Troubleshooting:

The Ultravation air disinfection equipment is designed to provide many years of trouble free operation. In the unlikely event of a problem, please contact your local dealer or Ultravation directly. Before calling for service, you should have your Model No; Serial No; Manufacturing Date;

If you are troubleshooting the unit, check the following:
It is recommended that this unit be installed and maintained by a trained technician.
Never perform maintenance on the UV unit without disconnecting power.
Verify the unit has power (120-277 volt)
Power switch is in the ON position
Safety interlock switch is depressed by the cover
Lamps are securely plugged into their sockets, no loose wires.
The electronic circuit of a 2-lamp system only operates when both lamps are operating.
Verify fuses are not blown, visually inspect or perform a continuity test of the fuse.
Verify what signal if any the UV Lamp Monitor LED is emitting. (See below).
Check Battery Voltage, should read about 2.8 -3.0 V (UVS only)
DC lower voltages can cause erratic LED readings
Verify if in fact the UV lamps are on or off. Do not look at the UV light without proper eye protection.
If possible try new lamps in Unit to see if they light.

NOTE: If one lamp does not light in a 2 lamp system neither lamp will light. If the UV light is not lighting, it does not mean that the lamp is defective. Other factors can also cause a lamp to not light.
PART DESCRIPTIONS:

- POWER CORD/ELECTRICAL CONNECTION
- LAMP SOCKET
- FUSE (UVE-ONLY)
- POWER SWITCH
- COVER SCREW
- SERVICE COVER
- LAMP STATUS INDICATOR
- MOUNTING HOLES
- POWER SUPPLY
- LAMP CONTROL BOARD
- UV LAMP
- POWER CORD/ELECTRICAL CONNECTION

2 LAMP UVS MODEL SHOWN
Power Consumption and Replacement Part Numbers:

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of Lamps</th>
<th>Power Consumption</th>
<th>Lamp Replacement Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVE-1000</td>
<td>1-9 Inch</td>
<td>18 Watts</td>
<td>LP-PP-0001</td>
</tr>
<tr>
<td>UVE-2000</td>
<td>2-9 Inch</td>
<td>36 Watts</td>
<td>LP-PP-0001</td>
</tr>
<tr>
<td>UVE-1036</td>
<td>1-16 Inch</td>
<td>36 Watts</td>
<td>LP-PP-0002</td>
</tr>
<tr>
<td>UVE-2036</td>
<td>2-16 Inch</td>
<td>72 Watts</td>
<td>LP-PP-0002</td>
</tr>
<tr>
<td>UVS-1000</td>
<td>1-9 Inch</td>
<td>18 Watts</td>
<td>LP-PP-0001</td>
</tr>
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<td>2-9 Inch</td>
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<td>UVS-2036</td>
<td>2-16 Inch</td>
<td>72 Watts</td>
<td>LP-PP-0002</td>
</tr>
<tr>
<td>UVS</td>
<td>Battery</td>
<td></td>
<td>EL-PP-0030</td>
</tr>
<tr>
<td>UVE</td>
<td>5 Amp Fuse</td>
<td></td>
<td>EL-PP-0044</td>
</tr>
</tbody>
</table>

Warranty:

Ultravation warrants this product against any defects in material or workmanship for a period of 10 years after date of consumer purchase, with the exception of the Ultraviolet Lamp(s), which are warranted for a period of one year after date of consumer purchase.

This warranty does not include damage to the unit from accident, misuse or improper installation.
If this product should become defective during the warranty period, Ultravation will repair or elect to replace the product free of charge.
Ultravation will return repaired or replaced warranted products pre-paid, provided that the product was delivered pre-paid.
Ultravation shall have no responsibilities for charges incurred by the customer for installation or removal of warranted items.
Liability is limited only to the replacement or repair of this product.
This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.
All returns must be accompanied by a return authorization number, which may be obtained by contacting Ultravation, Inc.

Ultravation, Inc. ~ P.O. Box 234 ~ 218 Jones Drive ~ Brandon, Vermont 05733
Phone: 802-247-0034 ~ Fax: 802-247-0033 ~ www.ultravation.com