

# UV PRO 550A, 550AT, 1100A, 1100AT ozone generator instruction manual

**\*\*\*\*IMPORTANT\*\*\*\***

**PLEASE RETAIN THE SHIPPING BOX AND PACKING FOR FUTURE USE!**

**If the product needs to be returned for any reason there may be a packing charge if the original packing is not used!**



# 550AT & 1100AT operation and maintenance instructions

## **IMPORTANT!!!!**

1. Read instructions thoroughly before operating!!

2. After shipping the unit via courier or after rough handling such as falling off a shelf open cabinet by following step 1 of the cleaning instructions. Check to make sure the UV tubes are in place. If the tubes have come out of place, re install them. If they are broken, wearing rubber gloves clean the glass out and replace the tubes.

**CAUTION, THIS OZONE GENERATOR PRODUCES DANGEROUS ULTRAVIOLET LIGHT,  
DISCONNECT POWER BEFORE OPENING TO SERVICE**

## **SPECIFICATIONS FOR 550 SERIES ozone generator**

<b>Maximum output</b>	550AT:(550mg/hr) / 1100AT:(1100mg/hr)
<b>Fan (rated cfm)</b>	105 cfm
<b>Filter</b>	1 Cleanable foam filter
<b>Cabinet material</b>	PVC outer cabinet with stainless steel inner chassis
<b>Generation method</b>	Ultraviolet Light
<b>Weight and size</b>	12lb 23" long x 5 wide x 6 5/8 height (including handle)

## **INTRODUCTION**

This line of ozone generators are designed for various uses. This ozone generator can be used for many uses such as deodorizing cars homes as well as oxidizing many organic contaminants.

## **WARRANTY** (please refer to complete warranty attached)

The 550AT & 1100AT's are warranted against defects in materials and workmanship for a period of 6 years from date of purchase. Liability is limited to parts and labor only. Shipping is the sole responsibility of the customer. CAPS is not liable for damage caused by shipping, misuse, neglect or lack of regular maintenance.

## **LIABILITY**

CAPS assumes no responsibility for any damage done to items from the use or miss use of any product sold or manufactured by CAPS. It is the customers responsibility to test materials prior to use and to ensure that the procedure and installation technique they are using is correct for the application.

## **HEALTH AND SAFETY**

Ozone can be an irritant and a powerful oxidizing agent. As with most all products, ozone is dangerous only when used improperly, as such it is important to follow safe usage guide lines.

*\*When doing a shock treatment, no people plants or pets/animals may be in the room when the unit is running.\**  
The room should not be re entered until all ozone has been depleted unless proper breathing respirators are used.

## **MAINTENANCE FREQUENCY**

Under heavy duty use or severely polluted areas, The ozone generator filter should be inspected and cleaned if necessary every 2 to 3 weeks. Inspect the UV tubes for fine dust or residue collecting on UV generator tube surfaces. Light duty use requires cleaning every 2 to 6 months depending on the severity of pollution in the feed air. In dirty conditions cleaning can be as often as 4-6 weeks.

## **DESCRIPTION OF OZONE GENERATOR**

These ozone generators produce ozone by UV light, converting normal oxygen to ozone gas which is a very strong oxidizing agent used to destroy odors and other organic contaminants.

## **PLACEMENT OF UNIT**

This ozone generator is designed as a portable commercial deodorizing device. It uses 120VAC for North America, and 220-240VAC for European countries etc. European models come with an IEC connector and it is up to the customer to supply the proper cord (this can be acquired at any computer shop).

### **Please note the following points when placing the unit.**

- Place on a flat solid surface such as a table or shelf. Do not place on rug flooring to reduce dust entering the unit
- Do not place in an area where the unit could be splashed with water, moisture or in an area that it could get flooded with water.
- Ensure that the unit gets proper fresh air flow. Do not obstruct the incoming or outgoing air from the unit.
- If used in temperatures below freezing, ensure that condensation inside the unit does not occur.
- Set the unit in an area where it will provide the best ozone distribution.
- The use of circulation fan will greatly increase the efficiency of the treatment.
- If the ozone generator being used is large enough to treat the whole house, the air handling system can be used to distribute the ozone, just point the ozone generator into the return air duct of the air handler, and turn the fan on to run constantly (summer fan setting on most furnaces).

# 550AT & 1100AT operation and maintenance instructions

## SETTING OF MACHINE

(Refer to ozone application/usage instructions for more detailed instructions.)

1. The 550AT & 1100AT features an on / off switch to power the unit, a one shot timer, a continuously adjustable output level control to adjust the amount of ozone being produced. Ozone production begins when the power switch or timer is turned on. (Refer to timer instructions below)

**2a.** (Setting Ozone Level (occupied areas)) The right level is when all the generated ozone is being used up to accomplish its job. However, this is difficult to obtain because it becomes a balancing act. Initially the unit should be used for a shock treatment to get rid of the problem odor as quickly as possible. After a shock treatment, set the unit at a very low setting, after several hours if there is a heavy smell of ozone, then there is more ozone present than is required to do the job. A good indication that the generator is set right is when you come home after being away for 6-8 hours and smell just a hint of the fresh sweet smell of ozone. Simply turn the output level control down. This is a case where more is not considered better. The levels of ozone required to deodorize most environments are from .03 ppm to .1 ppm.

**2b.** (Setting Ozone Level (shock treatments)) For most shock treatment applications the setting should be set to the highest setting. If the area being treated is small, the setting can be reduced to a lower level.



## Using the included timer(AT models)

The one shot timer is designed to allow the user to turn on the ozone generator and have it turn off after a given amount of time. Depending on the ozone generator model purchased your timer may or may not have the same settings as the one shown in the pictures, however the operation will be the same.

### 550AT operation

1. The timer is wired in parallel with the on/off switch. This means that if you wish to use the timer leave the power switch off. If you wish to use the switch for constant run simply turn the switch to on and leave the timer off.
2. To turn the timer on to constant run (hold) simply press the button once, the top green LED will light up and after about 2 seconds the machine will turn on.
3. To set the timer for a one shot timed operation press the button several times until the LED beside the desired amount of time is lit up, after about 2 seconds the machine will start.
4. To stop the operation of the timer press and hold the button for 3 seconds until the LED goes out and the machine stops.

### 1100AT operation

1. The timer is wired in series with the HI/off/Low switch. This means that if you wish to use the timer you must also turn the power switch on. If you wish to use the HI/off/Low switch for constant run you will also need to turn the timer to constant run. (Refer to next step)
2. To turn the timer on to constant run (hold) simply press the button once, the top green LED will light up and after about 2 seconds the machine will turn on.
3. To set the timer for a one shot timed operation press the button several times until the LED beside the desired amount of time is lit up, after about 2 seconds the machine will start.
4. To stop the operation of the timer press and hold the button for 3 seconds until the LED goes out and the machine stops.



# 550AT & 1100AT UV TUBE REMOVAL & CLEANING INSTRUCTIONS

**DISCONNECT POWER BEFORE SERVICING**  
**DO NOT LOOK AT UV LIGHT**  
**DO NOT OPERATE WITH end cap OFF!!**

1. Remove the 2 Philips (star) screws from each side of the black end cap from the output end opposite of the handle end as shown. Remove the cap and set it aside



2. Remove the 2 Philips (star) screws from the bottom of the machine at the end that the cap was removed from. These are the 2 screws that are between the rubber feet. Hold the deflector while removing the screws.



3. Using side cutters or strong scissors clip the cable ties that hold the tubes in place and remove the ties.

NOTE that if you plan on shipping the unit these ties **MUST** be replaced.



4. To remove the tube lift the end up out of the stainless support and pull while wiggling the tube back and forth being careful not to break it on the steel supports.



5. Clean all the tubes using a alcohol moistened paper towel or a lightly soap and water moistened paper towel to wipe the tubes down and remove any deposits. If soap water is used then a second wiping with a clean water moistened paper towel will be required to remove the soap.

-Be very careful not to damage the 2 wires that run the length of the tubes

-Note that using alcohol will allow you to use the ozone generator as soon as it is re assembled.

-If water is used for cleaning allow tubes to dry in a warm place for a couple hours, ensure that they completely dry.

6. If dirty, wipe the inside of the unit with an alcohol soaked paper towel.

7. Remove the filter by removing the two Philips screws on the end with the switch and remove the cap.

8. Clean the foam filter with dish soapy water, and rinse thoroughly and allow to dry completely before re installing. Replace the filter placing it back into the the ozone generator and re installing the end cap and screws.

## **550AT & 1100AT TUBE REMOVAL & CLEANING INSTRUCTIONS**

10. Replace the tubes by inserting them with the 2 wires that run the length facing the top or bottom of the machine. Wiggle the tube slightly side to side while pushing until the pins are fully in the socket. The tubes are fully in when the supports line up approximately in the middle of the ceramic end cap on the UV tube.

Replace the wire ties with new ones, especially if the unit is to be shipped. Note that the wire ties are standard 3 ½" nylon wire ties, available at your local lumber store.



11. Replace the lid and re install the 2 end cap screws. The unit is now ready for use.

**6 YEAR INTERNATIONAL WARRANTY STATEMENT FOR THE FOLLOWING MODELS**  
**PRO 200, 450, 970, 3400-1, 3600-1, 5000, 9,000,**  
**UV PRO 550, 550AT, 1100T, 1100AT, 2800, 4000, 6800, HVAC 560, HVAC-C,**

1. CAPS warrants that CAPS ozone generators will be free from defects in material and workmanship for a 6 year Period. The warranty period begins on the date of purchase. The original invoice is required as proof of purchase.
2. If an ozone generator is found to be faulty, CAPS will either repair or replace the faulty ozone generator at no charge provided that it is returned to our head office in Langley BC, Canada, transportation charges prepaid and properly packaged as to ensure that the equipment arrives safely.
3. To obtain warranty on your CAPS ozone generator contact CAPS prior to shipping the unit to obtain proper return procedures and an RA (return authorization number) number, see bottom for contact info.

**Exclusions**

- Damage caused by misuse, neglect or lack of regular maintenance.
- Cost of installation or removal of the equipment.
- Mica plates and UV tubes are limited to 6 months warranty.
- Wall transformers for DC powered units are warranted for 1 year.
- Damage caused by improper packaging or shipping procedures.
- Extra charges incurred as a result of improper packaging or shipping procedures.
- Missing serial numbers, if an ozone generator is missing a serial number the warranty is void with no exceptions.
- Shipping to and from CAPS.

**CAPS IS NOT RESPONSIBLE FOR ANY DAMAGES TO EQUIPMENT OR PROPERTY, LOST PROFITS, OR COSTS DUE TO USE OR MISS USE OF ANY CAPS PRODUCT.**

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For how to information please go to:

<http://www.ozone.ca/modelselect/>

If you would prefer to download a pdf please go to:

<http://www.ozone.ca/support/inst-pdf/ozone-instructions.pdf>