

# OMZ-700 Operation and Maintenance Manual

## 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 center screen of the generator plate has not moved out of place. Once this has been checked the chassis can be slid back into the PVC cabinet and the unit is ready for use.

**CAUTION, THIS OZONE GENERATOR OPERATES AT 4000-5000 VOLTS AC  
DISCONNECT POWER BEFORE OPENING TO SERVICE**

## SPECIFICATIONS FOR 700 SERIES ozone generator

Maximum output	700 mg/hr
Fan size (rated cfm)	34 cfm
Filter	2 Cleanable foam filters
Cabinet material	PVC outer cabinet with stainless steel inner chassis
Generation method	Corona discharge
Weight and size	6.6lb / 13" long x 5 3/4 wide x 6 5/8 height (including handle and filters)

## INTRODUCTION

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

## WARRANTY

The OMZ-700 is warranted against defects in materials and workmanship for a period of four years from date of purchase. Liability is limited to parts and labor only. Shipping is the sole responsibility the customer. OZSL is not liable for damage caused by shipping, misuse, neglect or lack of regular maintenance.

## LIABILITY

OZSL assumes no responsibility for any damage done to items from the use or miss use of any product sold or manufactured by OZSL. 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 reentered 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 should be inspected and cleaned if necessary every 2 to 3 weeks for fine dust or oily residue collecting on generator surfaces or plates. Light duty use requires cleaning every 2 to 6 months depending on the severity of pollution and the humidity level of the feed air. In dirty and humid conditions cleaning can be as often as 2-4 weeks.

## DESCRIPTION OF OZONE GENERATOR

These ozone generators produce ozone by corona discharge, 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 aquired 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.
- DO NOT USE IN VICINITY OF COMBUSTIBLE GASSES!!
- Humidity levels higher than 75% should be avoided as it will cause the unit to wear excessively fast and will require cleaning much more often.
- 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.

# OMZ-700 operation and maintenance instructions

## SETTING OF MACHINE

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

1. The 700 series controls features an On/Off switch to power the unit and fan, and a continuously adjustable output level control to adjust the amount of ozone being produced. Ozone production begins when the power switch is turned on, please ensure the level control is set to low( #1 on the dial).

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 0.1 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.



## TROUBLE SHOOTING ( NOTE: Do not use a home multi meter to test voltage, multimeters only read up to 1000 VAC)

1. Fan works but no ozone.

1a. Try various output setting.

1b. If the unit was recently serviced check plate alignment. One misaligned plate will stop the whole unit from working. If you have more than one plate try removing all but one plate, if it works then add one more plate and test, and so on. If you add a plate and it stops working, check alignment of the screens on that plate and re install, if the plate still does not work then remove it and inspect for damage.

1c. Check plate for damage and clean if necessary.

1d. If after cleaning the plate there is still no ozone contact your dealer or OZSL.

2. No fan and no ozone

2a. Check fuse.

2b. Ensure that the ozone generator is plugged into a working power receptacle.

3. Generator sounds erratic, crackling, or like it is arcing, popping, etc..

3a. Check plate for damage and clean if necessary.

3b. Check center HV screen alignment. Refer to cleaning instructions for proper alignment.

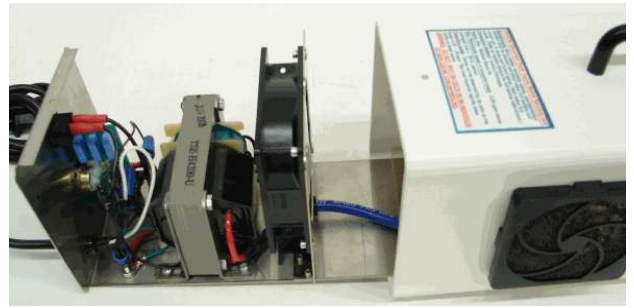
3c. High altitudes can also cause excess voltage output. Contact us if screens are aligned and there is still a problem contact, your dealer or OZSL.

# OMZ-700 plate removal instructions

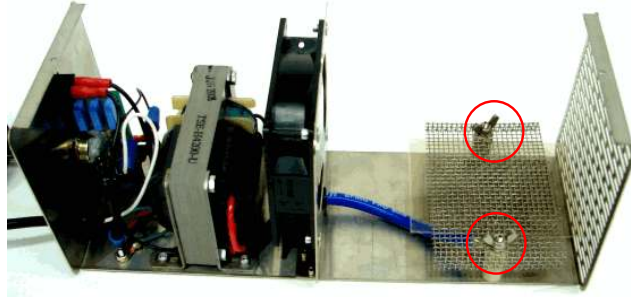
1. Remove the two Philips (star) screws from the top and the two from the bottom of the OMZ-700 as shown.



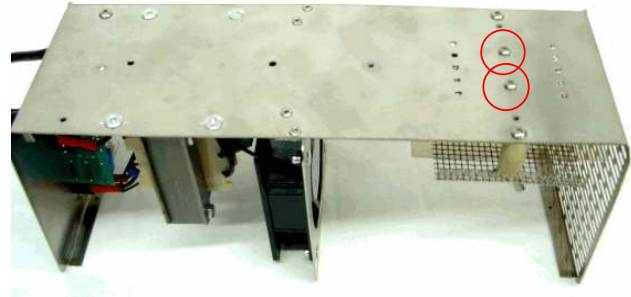
2. Slide the chassis out of the PVC cabinet.



3. Remove the two wing nuts and washers from the top screen on the plate. Lift the top screen and mica off.



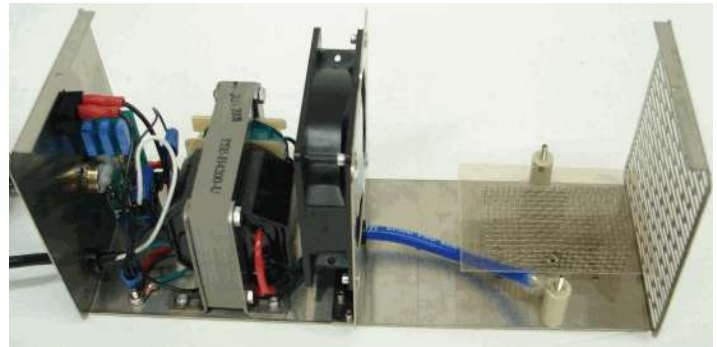
4. To remove the bottom screen turn the chassis over and remove the 2 Phillips screws indicated in the image.



5. Next refer to the plate cleaning instructions.  
**PLEASE ENSURE THAT ALL PARTS ARE COMPLETELY DRY PRIOR TO RE ASSEMBLY!**

6. Replace the bottom screen and bracket in reverse of step 5.

7. Center the mica on top of the bottom screen as shown.



8. Re install the top screen in reverse of step 3. Slide the OMZ-700 chassis back into the PVC cabinet and re install the 2 top and 2 bottom screws.

9. Use an alcohol soaked paper towel or something similar to wipe down any other areas of the machine that are dirty.

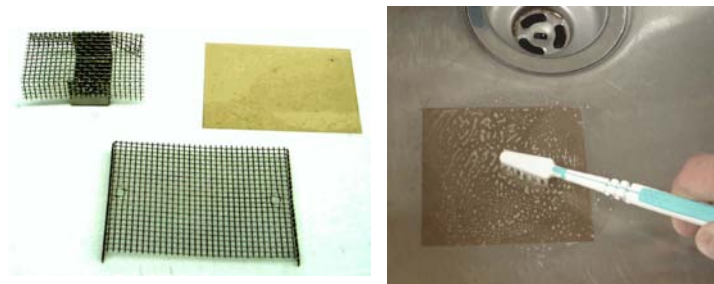
10. Before re inserting the chassis into the PVC cabinet, clean the filters with dish soap and rinse thoroughly with water and allow to dry. Clean the inside of the cabinet if needed and allow to dry.

11. Insert the chassis into the PVC cabinet and replace the screws that were removed in step 1. The ozone generator should be ready to be put back in service.

## OMZ-700 plate cleaning instructions

1. Disassemble plate parts according to the removal instructions provided.

2. Take mica and stainless screens and clean in the sink using dish soap and an old toothbrush. If the plates have not been cleaned for a long time, it is important to use the tooth brush to help remove the flaking mica. Rinse with clean clear water.



3. If the generator needs to be put back in service immediately you will need an oven or other source of heat to dry the mica and screens. If using an oven set the temperature at about 200° F and place the mica and screens on the middle rack for approximately 1-2 hours.

If there is no rush or you do not have access to an oven, place the mica and screens in a very warm dry place such as on an operating base board heater to dry overnight, or if it must air dry leave it dry for several days with good air flow .

4. Once all the Mica and screens are dry re assemble the ozone generator according to the instruction.