



## OPERATIONAL INSTRUCTIONS

1. One of the best features of the Odorox® hydroxyl generators is how easy they are to use and maintain. The 2 primary models used for commercial applications are the Boss XL3™ unit which has 3 hydroxyl generating optics and requires a supplemental air mover, and the Boss™ unit which has 2 hydroxyl generating optics and a self-contained fan.

**The BossXL3™ hydroxyl generator (Figure 1) has a vacuum switch and requires a separate “snail air mover” to activate the optics; it will not work without it.** When plugged in, the red light will come on to indicate the XL3 has power. Place the intake of the air mover next to the XL3 and turn the air mover on. Be sure the processor switch is set to either low or high. The green light indicates the optics have been activated and the machine is now producing hydroxyls. Axial fans typically do not work to turn on the XL3.



Figure 1. Boss XL3™ with separate air mover.



Figure 2. Boss™ with self contained fan.

**The Boss™ hydroxyl generator (Figure 2) simply plugs in and turns on.**

2. The “High/Low Processor” setting is used as follows: Boss XL3™ high = 3 optics, low = 2 optics; Boss™ high = 2 optics, low = 1 optic.
3. The power requirement for the Boss XL3™ unit is 120VAC @ 1.6 Amps and the Boss™ unit is 120VAC @ 1.9 Amps.
4. Coverage areas will range depending upon many variables. The Boss™ hydroxyl generator can generally treat up to 1,200 sq ft (10’ ceilings) of moderate odor. The Boss XL3™ hydroxyl generator can treat up to 2,000 sq ft (10’ ceilings) of moderate odor. Less coverage will be obtained in heavy odor conditions. These are estimates only and can be affected by numerous circumstances such as the room layouts, the number of floors, the type of odor, and the severity of the odor.
5. Always ensure the source of the odor is removed.
6. Supplemental air movement is critical, so additional air movers should always be used. Create a vortex whenever possible to ensure the Odorox® hydroxyls are dispersed everywhere.
7. Be sure the environment that you are treating is contained. Keep windows and doors closed as much as possible. Create chamber-like environments.
8. The length of time required to treat a job will also vary based upon the severity of the odor, type of odor and the number of hydroxyl generators used. Jobs can take anywhere from a few hours to a week to complete. In most cases, there will be a significant improvement after only 24 hours. Most jobs, however, should take 3 to 4 days to complete.
9. It is always important to remove the cold air return filter for the home or business HVAC system and put the fan in the permanent “on” position. This will ensure the hydroxyls are being pulled through the duct system and deodorizing everything. The filter needs to be pulled so the hydroxyls don’t get used up on a dirty filter.
10. Monitor the generators at least once a day to ensure they are performing properly.
11. When the job is completed, turn the generators off first and keep the air movers on for about fifteen minutes to air everything out. This is the best way to do a final “smell test” to be sure the job is done.
12. The Odorox® hydroxyl generators should be cleaned after each job and at least monthly. The doors should be removed and wiped down with a solution that is ten parts water and one part alcohol. The fan, chamber and optics should all be cleaned with the same solution. Use latex gloves and a lint free cloth when cleaning the optics. **Never touch the optics with your bare hands and never clean the machine while it is plugged in.** The filter is washable with water. Be sure it is completely dry before putting it back into the machine.
13. The power and electronics are rated for temperatures not to exceed 122°F (50°C).

## HELPFUL OPERATIONAL TIPS

1. The Boss™ hydroxyl generator is very effective in a more confined space. If the odor is especially strong it is helpful to run the fan speed on low to increase the retention time in the chamber and increase the effectiveness of the hydroxyls.
2. In most restoration or heavy odor applications, the generators are more effective without the filters. Air scrubbers should be used in situations with heavy particulate.
3. Odorox® hydroxyl generators should be set from the very beginning of jobs with odors present. Conditions for crew and customer will improve immediately, and the deodorization can happen simultaneous to the physical cleaning.
4. You can facilitate the distribution of hydroxyls into adjacent rooms by placing a generator at the end of a hallway and setting additional air movers down the hall pointing into each room or office.
5. If the goal is general purification in an area that does not have a severe problem, place the generator so it blows either into the middle of the room or into the HVAC return.
6. Open up all cabinets and drawers, space out hanging clothes in the closet and don't stack items that need to be treated. Remember, if air can't get to it the hydroxyls can't either.
7. Contents that are heavily damaged should be tented or placed as close to the machine as possible.
8. Nicotine and pet urine are difficult odors. The Odorox® hydroxyl generators will be effective but standard cleaning will still be necessary in areas that have significant or long term residue.

## ATTENTION

Remember to wear protective UV eyewear if you open the chamber of the machine while it is running. Do not look directly at the UV light without this protective eyewear while the machine is on.

The Boss™ and the Boss XL3™ hydroxyl generators are heavy duty odor eradication machines intended primarily for short term, controlled restoration applications. They are to be used along with supplemental air movement and exchange for proper hydroxyl distribution. These hydroxyl generators are to be used in "occupied" areas of 3,000 cu ft or greater. Use in smaller "occupied" spaces requires adequate ventilation. This equipment has been designed for commercial/industrial use and only qualified and trained technicians should operate this equipment.

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