

MAXBLASTER OZONE GENERATORS GUIDE - EXTENDED EDITION

TABLE OF CONTENTS

CLICK LINKS TO SKIP TO SECTION

[\(A\) INTRODUCTION](#)

[\(B\) OPERATION INSTRUCTIONS:](#)

[\(B1\) INSPECT MACHINE PRIOR TO USE](#)

[\(B2\) PREPARE TREATMENT SPACE](#)

[\(B3\) PLACE MACHINE INTO POSITION:](#)

[\(B3A\) HOMES & PROPERTIES](#)

[\(B3B\) VEHICLES & SMALL SPACES](#)

[\(B3C\) APPAREL & INDIVIDUAL ITEMS](#)

[\(B4\) APPLY OZONE: RUN TIME CHART](#)

[\(B5\) AIR OUT TREATMENT SPACE](#)

[\(B6\) REPEAT IF NECESSARY](#)

[\(B7\) REFRESH \(SHORT\) TREATMENTS](#)

[\(C\) ACCESSORY EQUIPMENT](#)

[\(D\) SAFETY PRECAUTIONS](#)

[\(E\) PROPER STORAGE](#)

[\(F\) SERVICE & MAINTENANCE](#)

[\(G\) RECOMMENDATIONS:](#)

[\(G1\) PROPERTY ODORS](#)

[\(G2\) AUTO DETAILING](#)

[\(G3\) MOLD & MYCOTOXINS](#)

[\(G4\) HOTEL & GUEST ROOMS](#)

[\(G5\) MUSTY BASEMENTS](#)

[\(G6\) BOAT & MARINE ODOR](#)

[\(G7\) APPAREL & ITEMS](#)

[\(G8\) CIGARETTE ODOR](#)

[\(G9\) CARPET CLEANING](#)

[\(G10\) DOG & CAT ODOR](#)

[\(G11\) ATHLETIC INDUSTRY](#)

[\(G12\) CANNABIS INDUSTRY](#)

[\(H\) DISCLAIMER](#)

[\(I\) FOR MORE INFO](#)

[RETURN TO TABLE OF CONTENTS](#)

(A) INTRODUCTION

This guide represents our best effort to answer all the questions people ask us about how to use our ozone machines. It is written with the intention of explaining things in everyday language and not in the fanciest, most scientific terms (forgive any typo's and grammatical errors). We plan on updating this guide on a regular basis as more questions get asked. So, feel free to give us feedback and suggestions.

HOW IT WORKS

In the simplest terms, the goal is to flood the treatment area with an overabundance of ozone gas in order to "shock" treat odors at their source. The goal is not to clean the air as it passes through the machine. Rather, oxygen (O₂) enters the machine and is converted to ozone (O₃) which then exits the machine and begins to fill the treatment space. Our machines are known for producing much higher concentrations of ozone than ordinary machines and therefore can eliminate odors faster, and better, than typical ozone generators.

BEFORE GETTING STARTED

Our machines produce ozone in levels that are considered unhealthy to breathe for extended periods. They are intended to be operated in spaces that are unoccupied during the treatment. However, they are much easier and safer to operate than people often assume. Follow the instructions in this guide to the best of your ability. If you cannot follow every step exactly as written, use your best judgement to meet as many of the recommendations as possible. We are always on hand to answer your questions so contact us if you need advice for your specific application prior to using our machines.

(B) OPERATION INSTRUCTIONS

Given that each project and property is different, it may be impossible to follow each step in this guide exactly as written. That is okay. Do not paralyze yourself by overthinking it. Overall the process is simple and safer than you might imagine. Do your best to follow as many recommendations as possible. Use your best judgement and contact us if you need advice.

(B1) INSPECT MACHINE PRIOR TO USE

Prior to each use you should inspect your MaxBlaster to make sure that it is functioning properly. When functioning properly your MaxBlaster should exhibit the following signs related to air, sound, scent, and sight:

CHECK FOR AIRFLOW

When the MaxBlaster is turned on you should detect an obvious flow of air being pulled into one end of the machine (foam filter end) and exhausted out the opposite end as ozone (finger guard end). The fan is located immediately inside the inlet end of the machine. It is important to ensure the fan is working properly before each use. If the fan is not working properly you will not detect any airflow coming in or out of the machine and

[RETURN TO TABLE OF CONTENTS](#)

the top of the unit may become warm as the transformer inside the machine is not being cooled. It is uncommon for the fan to not be working and it should be easy to detect.

CHECK FOR SOUND

When the MaxBlaster is turned on you should recognize a constant, subtle 'buzzing' sound coming from immediately within the outlet end of the machine. This sound is an indication that the set of plates (generator pack) within the machine is creating ozone via a corona discharge process. If the generator pack is not working properly you may detect no sound other than the fan blowing air and/or you may detect only an inconsistent sparking sound coming from one location on one of the plates. If the generator pack is not functioning properly see the service & maintenance section of this guide.

CHECK FOR SCENT

When the MaxBlaster is turned on you should immediately recognize the scent of ozone gas being emitted from the outlet end of the machine. The scent can be described as strong and somewhat unpleasant. Note: ozone in low levels is often described as "mountain fresh". However, the MaxBlaster produces extremely high levels of ozone that more closely resembles the scent of chlorine or bleach.

Once you become familiar with the unique scent of ozone it will be easy to detect. If the machine is not working properly you will not detect the ozone scent and instead you will only detect air passing through the chamber. Note: You can quickly hold your nose up to the machine to smell ozone however prolonged exposure to too much ozone gas may quickly become irritating. Quickly test for the scent of ozone then to turn off the machine until you are ready to begin the full ozone application cycle.

CHECK FOR CLEANLINESS

Before operating your MaxBlaster you should check that the machine appears clean and free of visible grime and residue. Inspect the foam filter on the inlet end of the machine. If it appears dirty remove it and rinse it clean with water. Dry it and place it back on to the machine. You should also peek into the outlet end of the machine (where the finger guard is located). From the outlet end of the machine you can see the generator pack (plates). If the generator pack and/or the inside of the machine shows signs of grime or residue follow the guidelines in section (F) Service & Maintenance.

Those who use their MaxBlaster on a high frequency basis and/or in commercial applications in harsh environments may develop grime or residue on the internal shell and/or components of the machine. In extreme cases where grime or residue becomes thick and gooey it may create the risk of heating up and potentially melting. If your machine shows signs of heavy grime on the internal components, please discontinue use and follow the guidelines in service & maintenance section of this guide.

CHECK WITH SIGHT (OPTIONAL)

When the MaxBlaster is turned on and functioning properly it is possible to peek into the outlet end of the machine and view the corona discharge taking place between each plate of the generator pack. Doing so requires you to look in the machine at close range. Those sensitive to ozone may want to avoid this step and simply rely on testing the airflow, sound, and scent.

For those who wish to view the actual corona discharge process you must first place the machine in a dark room. Turn the machine on and look in the outlet end of the machine. When functioning properly you will

[RETURN TO TABLE OF CONTENTS](#)

notice purple glowing lines coming from between each row of plates in the generator pack. If the machine is not functioning properly you may see no purple glowing lines or you may notice an arcing (sparking) on one of the plates while the other plates remain dormant. If you do not recognize the constant purplish glowing discharge from the generator pack see the service & maintenance section of this guide.

(B2) PREPARE TREATMENT SPACE

While ozone generators are a proactive cleaning agent that can neutralize volatile organic compounds (odors) they may only be one part of the overall cleaning effort. For permanent results it is often necessary to complete other steps towards removing the source of the odor itself. The success of your treatment will in large part depend on your ability to combine the benefits of ozone with other common-sense preparation steps. For advice on your specific application contact us prior to use.

STOP THE SOURCE

The only way to stop an odor permanently is if you remove the source itself. In many cases ozone generators are just one of the final steps of the overall cleaning process. For example, a musty basement will only be permanently free of odors if the moisture that is causing the odor is permanently stopped.

For each project it is important to stop the source of the odor before using the ozone generator. For example, this may include removing a dead mouse, removing flood damaged carpeting, and scrubbing walls and existing residue. For serious problems such as flood damage stopping the source may require extensive effort such as removing damaged drywall. Hopefully, you get the point of this concept. While ozone is an extremely powerful cleaning agent it is not a miracle worker that takes the place of other common-sense cleaning protocols.

WHAT IF YOU CAN'T STOP THE SOURCE?

If you cannot permanently remove the source of the odor it may be necessary to retreat the space if new odors develop. After your initial ozone treatment, you can often scale back the 'maintenance' treatments to shorter run times as new odors redevelop. See the section regarding refresh (short) treatments later in this guide for more information. What this means is that while permanent odor removal may not be possible with one ozone treatment, it may be possible by performing shorter ozone treatments on a periodic basis.

MINIMIZE MOISTURE AND HUMIDITY

It is a common rule in ozone applications that the lower the humidity the more potent the ozone will perform. If the humidity levels are especially high (>75%) it is recommended that you take steps to reduce the humidity before applying the ozone. In many cases dehumidifiers can greatly impact the success of your treatment. Ozone will not be as effective on wet surfaces such as damp carpets.

For best results, make sure that all items within the treatment area are dry prior to applying the ozone. If the ozone machine breathes damp, humid air it may accelerate the rate at which they will deteriorate and require service. In addition, it may lead to residue and grime developing on the plates which will yield less ozone power. For best results position your machine in a manner that it can breathe fresh clean air. The higher the quality air your machine breathes over time the higher quality results and longevity you can expect.

[RETURN TO TABLE OF CONTENTS](#)

EXPOSE ALL SURFACE AREAS

Ozone will only react with surface level odors and will not easily penetrate through walls, doors, or most fabrics. It is important to expose all surface areas so that ozone can reach them. This includes opening cabinets, drawers, and closets, lifting bed mattresses, separating clothes, and placing all individual items in an open manner with space in between each surface area. Make sure that all items you wish to deodorize are dry and not stacked on top of one another.

SET UP FANS FOR DISTRIBUTION

In order to help distribute the ozone it is recommended to set up some fans in the treatment area. Low to moderate intensity fans are preferred over high-intensity blowers. Box fans, table fans, and mini fans are acceptable. Turn any ceiling fans on and have them spinning in the direction that helps pull the air upwards. Visit section (C) Accessory Equipment for a great fan recommendation.

FAN STRATEGY: TURBOCHARGE YOUR TREATMENT

Here is a strategic plan to help turbo-charge your ozone treatment: place a moderate intensity fan about 12"-24" in front of your ozone machine (on the outlet end where the ozone comes out). Face it in the same airflow direction as the machine. The goal is to help encourage a greater pull of air through the ozone machine and to help distribute the ozone away from the machine. Remember, the goal is not to blow the fan into the machine. Rather, by placing the fan on the outlet end of the machine, in the same airflow direction, you can help pull more oxygen through the ozone machine and thus create more ozone. In addition, the greater the airflow through the machine the healthier it is for the plates over the long term as less microscopic debris are likely to settle on the plates.

WINDOWS: KEEP OPEN OR CLOSED?

The overall goal is to allow ozone to reach high concentration levels in the treatment area. Therefore, it is common sense that windows should be kept closed during the ozone application. However, for advanced users there may be benefits to keeping one or two windows slightly open (1"-2") across larger homes for the purpose of airflow and ozone distribution. For example, keeping a window slightly open on one side of a home may positively affect the pull of ozone from an ozone machine that is operating on the opposite side of the home. If you are unfamiliar with this concept it is recommended to keep it simple and just keep all windows closed during the ozone treatment. For car treatments read the section in this guide that discusses car applications.

CENTRAL AIR SYSTEM: TURN ON OR OFF?

While there may be some benefits to running the central air system as part of the ozone treatment it is not recommended to rely on the central air system as the only method to evenly distribute the ozone in high concentrations across an entire home. Running the central air system may in fact lessen the concentration of ozone in the treatment area. Therefore, it is recommended to run the ozone machine in the room itself to allow the ozone to reach the highest concentrations. After allowing the ozone to build up in the treatment area it may be beneficial to then turn on the central air system in order to pull ozone into the vents for cleaning. If you choose to face your machine so that it is blowing directly into the vents, understand that you will be mostly cleaning the vents instead of the treatment area.

[RETURN TO TABLE OF CONTENTS](#)

For some applications where the highest concentrations of ozone are not necessary, you may run the ozone machine into the cold air return to distribute lower levels of ozone across an entire home. This method may be ideal for lighter odors and those treatments where permanent odor removal is not the goal. Contact us if you need advice on whether to use the central air system for your application.

PILOT LIGHTS: LEAVE ON OR OFF?

Ozone is not flammable, nor should it have any effect on pilot lights. Therefore, it is not necessary to turn off the pilot lights to your water heater or similar appliances.

PAINTING AND SEALING WALLS: BEFORE OR AFTER?

If possible, it is recommended to perform the ozone treatment prior to painting and sealing walls. Once you paint and/or seal the walls (ex: Kilz) the odors may become trapped and harder for the ozone to reach. In addition, although paint dries quickly it can often take many days or weeks to completely cure. If you perform an ozone treatment immediately after painting or sealing walls, the ozone may react in unpredictable ways if it breathes any chemical-based fumes. If you have recently painted the walls, make sure to allow enough time for the paint to be completely cured. Read the specifications on the back of the paint can for more information.

REMOVE PEOPLE, PETS, AND PLANTS

Before running your MaxBlaster plan to have all people and pets out of the treatment area. It is also recommended to cover up or remove any valuable plants. If you are exposed to too much ozone for an extended length of time you may start to experience moderate irritation to your lungs and eyes. Note: our opinion is that brief exposure to high levels of ozone is not extremely dangerous to the average person. Breathing higher levels of ozone for short periods is not cause for panic. It almost takes a purposeful effort to cause damage to people, pets, and plants. Once you return to an area with fresh air often the irritation from ozone exposure quickly goes away. Those with sensitive respiratory systems should use extra caution. Overall, please use common sense and listen to your body. Do not remain in an area of high ozone concentration for more than a few minutes. Make an intelligent plan of action prior to starting the ozone treatment and contact us for further advice if necessary.

CAN YOU REMAIN IN OTHER PARTS OF THE HOME?

It may be possible to remain in one part of a home while you are treating a different area of the home by sealing off the treatment area (example: closing doors). However, you must use your own best judgement. If you experience any irritation it is recommended to adjust your protocol. For the average person the irritation associated with exposure to too much ozone is moderate and can be quickly eliminated by returning to an area with fresh air. For those with existing health conditions and/or those with sensitive respiratory systems the irritation associated with too much ozone may pose more of a risk. Our advice is to keep some windows open and fans running in the area you are occupying if you are treating an adjacent part of your home (example: basement treatments).

For more information and advice please contact us prior to use. It is your responsibility to ensure safety to all people and pets so please consider this information as our opinion and not medical grade advice. For absolute

[RETURN TO TABLE OF CONTENTS](#)

safety remove all people, and pets from the treatment area for the entire duration of ozone treatment and airing out process.

CAN NEIGHBORS REMAIN IN ADJACENT UNITS?

If you are planning on treating a property (example: apartment) that has occupants in an adjacent unit, make sure to seal off your treatment area to minimize/eliminate ozone escaping and making its way next door. This may include sealing off vents and placing towels under doors. You may also want to inform them in advance of your plans and give them the opportunity to keep some windows open in their unit to allow more fresh air. Ozone does not pass through walls. But it may escape through cracks and vents. Low levels of ozone are not dangerous however please be smart, and respectful of your neighbors safety prior to using our machines.

(B3) PLACE MACHINE INTO POSITION

One of the key contributors to the success of your ozone treatments both in the short and long term is proper placement of your ozone machine. By placing your machine in the most advantageous position you can not only improve the effectiveness of the treatment, but you can increase the lifespan of the machine itself. Although there are too many treatment types and variables to describe in detail in this guide, if you understand the basic rules of ozone you can apply them to just about every type of application. It may be impossible to apply each of the following recommendations to every treatment. Use common sense to combine as many of the following recommendations as possible to your unique situation. For more information visit the “guide” page of our website and/or contact us for advice.

(B3A) HOMES & PROPERTIES

Understand that ozone generators do not work by cleaning the air as it passes through the machine. The goal is not to have dirty air enter the machine and “zap” the odors away. Rather, the goal of an ozone machine is to “generate” ozone so that it fills the treatment space with high levels of ozone gas. The cleaning action takes place in the treatment area and not the machine itself. Do your best to apply as many of the following recommendations to your home and property treatments as possible:

MAXIMIZE AIR INTAKE QUALITY

The cleaner the air that your ozone machine breathes over time the longer it will perform at optimal levels. One of the first questions to ask yourself when placing your ozone machine in position is “where can it breathe the highest quality air?”. If your machine breathes certain types of dirty air molecules (examples: cat urine, cigarette smoke) over extended periods and/or repetitive uses it may begin to leave residue and grime on the internal components and plates. Although the machine may still remove odors and perform as expected if exposed to dirty air over the short term, you may notice reduced performance over the long term. In addition, it may result in the need to service your machine (example: replace the plates) sooner than expected.

One suggestion is to place your machine so that the intake end is located directly next to a window that is open a couple inches (assuming the outdoor air is of higher quality than the indoor air). Place a fan in front of

[RETURN TO TABLE OF CONTENTS](#)

the machine (on the outlet end where ozone exits the machine) and in the same airflow direction. You may want to cover the rest of the open window with tape or newspaper in order to create a 4" x 4" opening that matches the intake end of the machine. This set up will allow the machine to breathe fresh clean air throughout the treatment, while the fan helps distribute the ozone into the center of the treatment area.

Don't overthink this recommendation. If it is not possible to set your machine up so that it is breathing fresh clean air it will not have a huge effect on the treatment itself. Breathing fresh clean air may improve the lifespan of the machine but it is not a make or break rule. Follow the other recommendations to the best of your ability.

CENTRAL LOCATION

Place your machine as close as possible to the central part of the treatment area. Counter-top level is acceptable for most applications however there are advantages the higher you place your machine (see next paragraph). Use common sense in terms of placing your machine in a manner that the ozone will be directed towards the source of the odor and the central part of your treatment area.

PLACE & AIM HIGH

Ozone gas is heavier than oxygen and tends to move in a downward direction*. Therefore, it is recommended to place your machine as high in the treatment area as possible. Counter-top level is acceptable for most applications. Do not place your machine on the floor. If possible, place a fan in front of your machine (on the outlet end where ozone is exiting the machine) and angle it upwards to help distribute the ozone towards the ceiling at the center of the treatment space.

*this does not mean that all the ozone immediately drops downward. If you run an ozone machine in a basement you will eventually smell the ozone several floors above. However, it is better to have the ozone start from a higher location rather than trying to force it to move in an upward direction.

FACE MACHINE INTO CENTRAL AIR SYSTEM: YES OR NO?

While in some instances there may be advantages to placing your ozone machine so that it is directed into the central air system it is not recommended to rely on the central air system as the only way to distribute ozone in high concentrations across an entire home. For more information on this subject please read section (B2) Prepare Space for Treatment.

SAFE & STURDY PLACEMENT

Please use common sense when placing your high-voltage, high-ozone-output machine into position. Do not place it on the floor. Do not place it in a manner that it can fall over. Do not place it in a manner that it can be accessed by children or pets during operation. Do not place it in a manner that debris can easily enter the machine while in use. Although ozone is not flammable, avoid placing the machine where anything flammable may enter the machine. If you intend on leaving the premises during the ozone application process take steps to prevent anyone else from unknowingly entering the treatment area. For example, leave a sign that indicates "do not enter / air treatment in progress / keep out". Although the actual risk of injury or damage is quite low, be safe rather than sorry. It is 100% your responsibility to ensure safe operation of your ozone machine. For more information contact us prior to use.

[RETURN TO TABLE OF CONTENTS](#)

USE MULTIPLE MACHINES FOR FASTER, STRONGER RESULTS

One of the easiest ways to increase the speed, size, and degree of your ozone treatment is to use multiple ozone machines. Commercial businesses often use multiple ozone machines to speed up the treatments, treat larger areas, and offer more permanent results. Using multiple ozone machines also allows you to more evenly distribute the ozone in even concentrations across larger areas.

The math is simple. Using two ozone machines cuts the treatment time in half. It also doubles the size of the coverage area that you can treat in one session. If your treatment area is very large you can use one ozone machine from room to room over multiple treatments. Or you may use multiple machines to treat the space at one time. For more information contact us for multiple unit pricing and commercial business advice.

(B3B) VEHICLES & SMALL SPACES

For vehicles and small spaces under 100sqft consider the following recommendations. If you place your ozone machine inside the treatment area it will quickly begin to recycle its own ozone. It is also more likely to breathe the same dirty air that you are trying to treat. Breathing dirty air over time may increase the rate at which the plates will become grimy with residue and need to be replaced.

It is recommended to use the basic hose accessory to allow your ozone machine to remain outside the treatment area while pushing ozone into the treatment area via the hose. See section (C) Accessories for more information. Although it is not mandatory to use the basic hose accessory it is recommended for those who will be using their machines on a frequent basis and/or in commercial applications.

Keep it simple and do not over-engineer the set up. Place the hose on the outlet end of the machine where the ozone exits the machine. Make sure the machine is as close to the window as possible and the hose is not stretched too far or too high. Run the hose in through the window and cover up the rest of the window with a towel. Contact us for further advice.

(B3C) APPAREL & INDIVIDUAL ITEMS

If you wish to treat apparel or individual items, consider the following recommendations. The overall goal is to place the items inside of a small treatment area (box, closet, small room) and then treat the small space with high levels of ozone.

One common recommendation for a treatment area is a portable closet that you can buy at any home improvement store. The items must be placed in a manner that all surface areas are exposed. They cannot be stacked on top of on another. The basic hose accessory is recommended in order to allow the machine to remain outside the treatment space. The target hose accessory is available for those who wish to blow ozone directly into fabric and upholstery.

Given the unique complexity of treating apparel and individual items please contact us for advice. The overall setup is relatively simple so do not over-engineer the design. Make sure all the items are completely dry, open, and exposed to the ozone. For high-volume items use a small room as your treatment area.

[RETURN TO TABLE OF CONTENTS](#)

(B4) APPLY OZONE: RUN TIME CHART

Please see the addendum to this manual (Run Time Chart) for recommended treatment times based on several factors including the degree of odor, size of the treatment space, and type of MaxBlaster you are using. All projects are unique, and it is difficult to accurately predict the exact run time to accomplish your specific goal. Much of your success will be determined by your ability to analyze the results after each cycle and adjust your run time throughout the entire project.

Many common odors of moderate intensity and moderate size can be removed in less than one day. Difficult odors and larger spaces may require multiple treatments over multiple days. Extreme odors and oversize spaces may require a prolonged effort. It is not recommended to allow your MaxBlaster to run non-stop for days on end. Doing so may result in adverse results and reactions. It is recommended to limit the run time to 8 hours then repeat with follow up treatments if necessary.

Follow the recommendations in the Run Time Chart for best results and contact us if you have questions about your specific application. We provide friendly advice for any type of ozone project.

(B5) AIR OUT TREATMENT SPACE

Once you have completed the ozone application you must allow the treatment space to recover back to normal air conditions before allowing people and pets to reoccupy the property. There are two ways to turn off your MaxBlaster ozone generator: manually or with the use of a timer. Follow these guidelines when turning off your machine and allowing the treatment space to return to regular air conditions.

CAN YOU ENTER THE TREATMENT AREA?

Although high concentrations of ozone are not healthy to breathe for an extended period, most people can quickly enter and exit the treatment area with minimal risk or irritation. For example, if you need to grab something that you forgot inside the treatment area, most people can quickly enter, remove the item, then exit again with minimal irritation. This holds true for those who plan on turning off their machine manually (see below). For obvious reasons it is advised to plan on quickly entering and exiting an area with high concentrations of ozone. Take measures to minimize your breathing if possible. This may include putting a towel or t-shirt over your face while in the treatment area.

For those with sensitive respiratory issues, or pre-existing conditions, it is recommended to use a respirator mask or to remain out of the treatment space until the ozone has sufficiently returned to safe breathing levels. Contact us prior to use if you have questions about your specific conditions.

TURN OFF MACHINE MANUALLY

Most people can enter and exit the treatment area for a short period (example: 2-3 minutes) with minimal risk and/or irritation. This allows time for those who choose to manually turn off their MaxBlaster. If you choose to manually turn off your ozone machine, prepare to enter and exit the space quickly. Take measures to minimize your breathing which may include putting a towel or t-shirt over your face. Once you turn off your machine exit the space again and allow enough time for the ozone to return to regular air conditions prior to reoccupying the space.

[RETURN TO TABLE OF CONTENTS](#)

TURN OFF MACHINE WITH A TIMER

Our machines are intentionally designed without a built-in timer. For an explanation of why this is considered an advantage visit section (C) Accessory Equipment. External timers can be attached to the power cord that will allow you to program the automatic shut-off of your machine. This is recommended for those who cannot be present to turn off the machine and/or those who wish to avoid all exposure to high concentrations of ozone gas. Please follow the instructions that come with your timer to learn how to operate it.

HOW LONG DOES IT TAKE TO AIR OUT?

Ozone has a relatively short half-life and naturally begins to dissipate once your MaxBlaster has been turned off. Every thirty minutes, about half the residual ozone present at the beginning of the period will return to oxygen. It will continue in this geometric progression (16-8-4-2-1) every thirty minutes. What this means is that most of the residual ozone returns to oxygen in the first couple hours. However, it may take many more hours for all the residual ozone to return to oxygen in its entirety.

SIMPLE SAFETY ESTIMATE (3 HOURS PER 1 HOUR)

As a simple safety estimate, for every 1 hour that you ran your MaxBlaster it is recommended to allow 3 hours for the residual ozone to naturally return to safe breathing levels. For example, if you ran your MaxBlaster for 4 hours, it is recommended to allow up to 12 hours prior to reoccupying the space. This estimate may vary based on the size of your treatment area and the type of MaxBlaster that you use (RES, PRO, PRO-G).

Some people may be less sensitive to ozone and feel comfortable reoccupying the space sooner than the recommended time. Others may be more sensitive and should allow extra time before reoccupying the space. Overall, please use your best judgement and listen to your senses. If you enter the area and still detect the strong scent of ozone, please allow more airing out time and/or speed up the process by opening windows and using fans.

HOW TO SPEED UP THE AIRING OUT PROCESS

If you cannot wait for the ozone to naturally dissipate you may open windows and doors to help flood the treatment space with fresh air and speed up the airing out process. Place fans near windows to help push ozone out and/or pull fresh air back into the space. By opening windows and doors you may significantly reduce the airing out time depending on the number of windows, fans, and property layout. It is recommended to allow at least 1 hour of airing out time even under the most optimal conditions. When turning off your machine prepare to enter the space quickly, open windows and doors, turn on some fans, then exit again until the ozone has been reduced to safe breathing levels.

PROS & CONS OF SPEEDING UP THE AIRING OUT PROCESS

The obvious advantage of opening windows and doors to speed up the airing out process is that you can reoccupy the space much sooner. However, there is a distinct advantage to allowing the residual ozone to convert back to regular oxygen naturally. By allowing the ozone to naturally convert back to oxygen you may neutralize a higher percentage of the original odor. If you are not in an urgent rush to reoccupy the space it is recommended to allow the residual ozone to saturate the treatment area for as long as possible. If possible, allow up to 24 hours before assessing the overall results of your treatment before deciding if it is necessary to repeat the process. See section (B6) for more information.

[RETURN TO TABLE OF CONTENTS](#)

HOW TO KNOW IF IT IS SAFE TO REOCCUPY

There are two ways to determine if the treatment space has returned to safe breathing levels. The first is by using your best judgement and following the recommended airing out time. The second is by using an ozone monitor.

USE YOUR BEST JUDGEMENT

By following the recommended airing out times (section B5) you can get a good idea of how long it will take for your space to return to safe breathing levels. But you can also rely on your own senses and best judgement. If you enter the treatment area and still detect the strong scent of ozone it should be obvious that you need to allow more time before reoccupying.

Ozone has a distinct smell and at low levels may be pleasant. But in high levels it can be irritating to your lungs, eyes, and throat. Enter the treatment area and after a few minutes if you feel any irritation adjust your protocol and allow more time. Don't panic if you start to feel irritation though. In most instances once you return to an area of fresh oxygen the irritation quickly goes away. Ozone is not poisonous. And in our opinion, it is only moderately irritating when exposed for short periods.

USE AN OZONE MONITOR

For those wish to avoid risk at all costs, including those who may be operating their MaxBlaster in areas where tenants, guests, employees, and customers may be present, you can use an ozone monitor to detect whether or not the ozone has returned to safe breathing levels. See section (C) Accessory Equipment for more information. Although ozone monitors are relatively expensive, they provide users the ability to ensure absolute safety and are recommended for commercial applications when treating property occupied by people other than yourself.

(B6) REPEAT IF NECESSARY

After you have completed the ozone application and airing out process, assess the results to decide if it is necessary to repeat the process. Mild odors can often be permanently eliminated with one treatment. Foul odors may require an additional treatment. For intense odors and mold applications it may require that you perform multiple ozone treatments over the course of several days. To learn more about each individual odor read section (H) for recommendations. It is better to perform multiple treatments instead of allowing your machine to run non-stop for several days in a row. Follow the guidelines below and contact us if you need further advice for your specific odor removal project.

HOW TO KNOW IF THE TREATMENT WORKED

A successful treatment will result in the absence of all odors. The treatment area should smell neutral, sterile, and fresh. You should not smell the scent of ozone either. The goal is not to cover up the odors with ozone but rather to remove them all together. The air should smell pure, neutral, and green.

Unfortunately, it is sometimes difficult to determine if the odors have been removed permanently. Usually the results are very positive at first but sometimes the odors will return over time. Therefore, it is recommended to err on the side of over-doing it repeat the process if time and convenience allows. For best results follow the application, air-out, and repeat pattern below.

[RETURN TO TABLE OF CONTENTS](#)

FOLLOW THE APPLY, AIR-OUT, REPEAT PATTERN

For best results it is not recommended to run your MaxBlaster non-stop for more than 8 hours for most applications. Although some applications may benefit from running your machine longer (example: 12 or 24 hours) it is usually recommended only for spaces larger than 2000sqft. Please contact for advice prior to allowing your machine to run longer than 8 hours at one time. It is recommended to limit your treatment times, then air out the treatment space, and repeat if necessary. Like washing clothes in washing machine, it is better to wash, rinse, and repeat the cycle rather than allowing the wash cycle to continue for too long. Running your ozone machine for too long eventually becomes inefficient. In some instances, running your ozone machine too long may result in adverse effects. See section (D) Safety Precautions for more information.

(B7) REFRESH (SHORT) TREATMENTS

For some applications where permanent odor removal is not the primary goal, you may run your MaxBlaster for short treatments as a simple way to refresh the air. For example, if your basement has a continuous moisture problem, it may not be possible to kill the odors permanently given they will come back over time. Instead of trying to blast away the odors permanently by running your machine for many hours, it may be more efficient to run your machine for a short period simply to deodorize the air.

Keep in mind that your MaxBlaster produces the same amount of ozone in one hour that many ordinary ozone machines produce over 4-8 hours. Running your machine for 30 minutes, for example, may be enough to purify the air to give you the results you want for a day, or two, or more. In addition, short treatments require less inconvenience as you may not have to vacate the property during the treatment.

A common protocol used by those who cannot stop the source of odor permanently is to run the MaxBlaster for a heavy treatment to get the property to a base level of cleanliness, then scale back and run short treatments on a periodic basis over time. For example, for a stinky crawl space, you may want to complete a couple 8-hour treatments when you first get the machine. Then scale back and perform short treatments of 1-hour every couple of days going forward. Visit section (H) Recommendations for more information and contact us for advice.

(C) ACCESSORY EQUIPMENT

There are many accessories that will allow you to optimize your MaxBlaster for specific types of applications. Below is a list of accessories that are currently available in our store. Visit section (H) Recommendations for advice on specific types of odor projects.

BASIC HOSE

The basic hose accessory is most commonly used for auto detailing. It helps to prolong the lifespan of the plates inside the machine by allowing the machine to remain outside the vehicle so that it can breathe fresh oxygen instead of recycled ozone and dirty air from inside the vehicle. The basic hose is also used in similar small space applications where limited amounts of fresh air is available. Although the basic hose is not mandatory for car and small space treatments, and the results of the treatment will not be dramatically

[RETURN TO TABLE OF CONTENTS](#)

different, it can help prolong the lifespan of the machine for those who use their machine on a frequent basis in commercial applications and harsh environments.

To attach the basic hose accessory, simply thread the 4" hose through the extra end piece (included). Then slide the extra end piece over the existing end piece on the machine. You do not have to remove the existing end piece. Everything is held together by pressure alone. Note: it is recommended to place the hose on the outlet end of the machine in order to push ozone into the window of the vehicle or treatment area. Cover the rest of the open part of the window with a towel. Try to keep the hose as short and as straight as possible. If the hose is forced to bend and stretch too far it may result in the ozone backing up into the machine creating inefficient and reduced results.

TARGET HOSE

The target hose is intended for specialized auto detailing treatments in order to blow ozone directly into upholstery, seating, floorboards, and headliners. It can also be used for other applications in order to blow ozone directly into furniture, apparel, and individual items. It is not recommended to be used as the hose to blow ozone into windows and small spaces (see Basic Hose above) because it is narrow (2.5") and may result in reduced efficiency.

To attach the target hose you must first remove the existing end piece on the machine. Thread the target hose through the white, square end piece (included) then attach the white end piece to the machine with 4 screws. Note: the target hose does not include the shop-vac type attachment (ex: bristle brush) that you may need for your application. You may need to purchase the shop-vac attachment of your choice and attach it to the end of the hose. Any 2.5" shop-vac accessory piece will adapt with the target hose. In addition, if you use the target hose accessory you will need to use a respirator and goggles as you are blowing directly onto the treatment surface. For more information on how to use the target hose contact us for advice.

BOOSTER (ZIPPI) FAN

The booster fan is our recommended fan to use for most applications. By placing the fan in front of the ozone machine (on the outlet end where the ozone exits the machine) you can help pull more oxygen through the machine and distribute it towards the center of the treatment area. By pulling more oxygen through the machine you will create more ozone thus turbocharging your treatment. The booster fan has cloth blades that minimize any ozone disintegration. It can also be angled upwards to help encourage the ozone to move higher in the treatment space. Place the booster fan as close as possible to the machine for best results. The booster fan is manufactured by the Vornado company and is sold as the Zippi fan.

CARRY CASE

The carry case is a standard 19" toolbox and is sold separately (not included with each machine). Each MaxBlaster does come with a fitted 16" cardboard box and anti-static bag. The cardboard box fits snugly inside the toolbox to create ideal storage conditions. The carry cases sold on our website are manufactured by various brands. We reserve the right to change brands based on availability, style, and current market price.

HOURLY TIMER

The hourly timer makes it easy to program your MaxBlaster to turn off after a set number of hours. For example, you can program your machine to turn off after 1, 2, 4, or 8 hours. To use the timer, make sure your

[RETURN TO TABLE OF CONTENTS](#)

MaxBlaster switch is in the on position, plug it into the timer, then plug the timer into the wall. We do not build timers into our machines for strategic reasons that include allowing flexibility for different types of timers (see Program Timer below) and the reduction in potential service issues inside the machine. The hourly timers sold on our website are manufactured by various brands. We reserve the right to change brands based on availability, style, and current market price.

PROGRAM TIMER

The program (pin-style) timer allows you to set your MaxBlaster to turn on/off on a cycle that repeats every 24 hours. Each pin on the timer represents 15 minutes with a total of 96 pins that can be set on or off throughout a 24-hour period. It is ideal for applications where you might want to set your machine to turn on for a certain period of the day, then repeat every day thereafter. For example, you can set your MaxBlaster to turn on for 4 hours a day, from noon until 4pm, and repeat every day over the course of a weekend to complete multiple treatments in the same property. Note: it is not recommended to run the MaxBlaster unsupervised on a permanent basis. Doing so may cause adverse results. See section (D) Safety Precautions for more information.

OZONE MONITOR

The ozone monitor is a device that will allow you to measure the ozone concentration levels in an indoor area. It will tell you whether the ozone levels are above or below the EPA's safe breathing level. It is very simple to use with lights indicating when the levels are safe (green), borderline (yellow), or unsafe (red). The monitor is most often used in commercial applications by those who perform ozone treatments in areas that are occupied by customers, employees, tenants, and guests. It is also beneficial for personal users who wish to avoid risk at all costs.

OZONE SWITCH

The ozone switch performs like a thermostat and automatically turns your MaxBlaster on/off based on a preset level of ozone concentration. It is intended for sophisticated applications that require the ozone levels to be controlled automatically. Due to the complicated nature of this device it is recommended to contact us prior to purchase. It requires the MaxBlaster be wired into the switch prior to use.

RESPIRATOR MASK

The respirator mask is intended for those who will be working in proximity to high concentrations of ozone. It provides protection against overexposure to ozone and is recommended for those who wish to avoid risk. For those who will be using the Target Hose accessory (see above) a respirator is required. The respirator mask sold in our store uses organic vapor cartridges and is manufactured by various suppliers. We reserve the right to change suppliers based on availability and current market price.

(D) SAFETY PRECAUTIONS

We are very proud to have sold our machines worldwide for over ten years with zero reported instances of injury to people or pets. In our opinion, it almost takes a purposeful effort or reckless effort to expose yourself to serious risk. In a handful of cases where our machines were run for much longer than recommended, we have heard reports of wire coatings that became sticky, and rubber that became brittle. In one instance, a user

[RETURN TO TABLE OF CONTENTS](#)

who reportedly operated their machine 4-5 hours every day for two years in a small basement claimed that corrosion (rust) developed on furniture grommets. With that said, please use extreme caution and care when using our machines. Ultimately it is your responsibility and liability to make sure all people and pets are safe when using our machines. Follow our guidelines for safe results.

INTENDED FOR UNOCCUPIED SPACES ONLY

Although ozone is not poisonous, and will not cause any diseases, breathing too much ozone can irritate your lungs, eyes, throat, and can cause discomfort to your respiratory system. Long term exposure may cause more serious problems. In the short term, if you feel you may have been exposed to too much ozone, vacate the treatment area and get to an area with fresh air. If you will be operating your ozone machine in an area where other people may be present, take measures to ensure that they will not be exposed to too much ozone. To avoid all risk, use the ozone monitor in section (C) Accessory Equipment.

INTENDED FOR ORGANIC ODORS ONLY

Our machines are intended to be used on organic odors only. Ozone has the capacity to neutralize volatile organic compounds and may react adversely when exposed to non-organic, chemical-based odors. See the recommendations in section (G1) Ozone for Odors. If you are unsure, it is recommended to limit your initial treatment to 25% of the estimated time (see addendum: Run Time Chart).

After allowing the ozone to return to normal air, inspect the results before continuing with further treatments. If you allow your MaxBlaster to run for an extended period in an area with non-organic odors the ozone may react in unpredictable ways. It may result in a new odor being developed that might be equally challenging and time consuming to eliminate. For best results, follow the recommendations in section (G1) and contact us prior to using your machine on non-organic odors.

MAY BE CORROSIVE TO CERTAIN MATERIALS

While it is virtually impossible for your MaxBlaster to cause corrosion to materials when used in accordance with this guide, prolonged exposure and/or misuse may result in risk to certain materials. For example, prolonged exposure at very high levels of ozone may break down rubber, nylon, and zinc. Do not operate your MaxBlaster on a continuous basis without inspecting the items within the treatment after each use. If you notice any items becoming sticky, brittle, or showing signs of corrosion discontinue use. Contact us for a comprehensive list of ozone compatible materials.

MAY POSE RISK WHEN DIRTY AND GRIMY

While it is virtually impossible for your MaxBlaster to heat up to dangerous levels when used in accordance with this guide, prolonged use when the internal components are extremely grimy may pose risk.

In extreme cases where the inside of the machine develops thick levels of grime, the shell of the machine may become vulnerable to heating up and melting. Or it may result in the ozone reacting with the grime and creating new, unintended odors.

This warning is not meant to scare the average user. It is intended for commercial users who operate our machines in harsh conditions on a high frequency basis. Follow the steps in section (B1) Inspect Machine Prior to Each Use. If your machine shows signs of grime building up inside near the plates, discontinue use and follow the steps in section (F) Service & Maintenance.

[RETURN TO TABLE OF CONTENTS](#)

HIGH-VOLTAGE ELECTRIC DEVICE

The MaxBlaster is a high-voltage electric device and should be handled accordingly. Do not allow those unfamiliar with its intended use to operate the machine. Do not allow children to have access to the machine. Do not allow pets to accidentally get too close to the machine while it is being operated. Do not place the machine on carpet during the treatment. Do not allow debris to enter the machine while it is in use. Place the machine in a safe, sturdy location.

(E) PROPER STORAGE

MaxBlasters are designed for long term use over an unlimited number of treatments in a wide range of applications. However, the lifespan of each machine may vary depending on how well you follow the instructions in this guide. To prolong the life of your machine, follow these guidelines for proper storage.

FITTED BOX & ANTI-STATIC BAG

Each MaxBlaster is shipped to you inside of a shipping box that contains an inner fitted cardboard box and anti-static bag. The outside shipping box can be discarded after arrival. The inner fitted cardboard box and anti-static bag should be kept for storage in between uses. After each use, wrap your machine back into the anti-static bag and place it inside the fitted cardboard box.

IDEAL TEMPERATURE, HUMIDITY, AND LOCATION

Avoid storing your machine in an area with severe temperature and humidity fluctuations. The ideal storage location would be indoors in an area with temperatures between 60-75 degrees with humidity below 50 percent. Instead of an outdoor garage, it is recommended to store your machine in an indoor room or closet-type setting. If you will be transporting your MaxBlaster from jobsite to jobsite, make sure that the machine does not get bounced around in transit. It is important to make sure the plates inside the machine do not get jostled too harshly. Treat your machine like an expensive laptop computer and not like an industrial grade appliance.

BLOW COMPRESSED AIR THROUGH THE MACHINE (OPTIONAL)

If possible, it is recommended to blow compressed air through the machine on a regular basis. This is especially true if your MaxBlaster sits on a shelf for long periods in between use. If you have an air compressor, face it into both ends of the machine and blow air through the chamber for a few seconds. If you do not have an air compressor you may use a compressed air can (comparable to those you might use to clean off a computer keyboard). Although it is not mandatory to blow compressed air through the chamber of the machine after each use, it might help to keep the plates cleaner and last longer before needing replacement.

(F) SERVICE & MAINTENANCE

MaxBlaster ozone generators can be self-serviced or sent to our full-service department depending on the diagnosis and your comfortability performing minor procedures. Follow these guidelines to determine the best manner to restore your machine to optimal performance standards.

[RETURN TO TABLE OF CONTENTS](#)

IF YOUR MACHINE DOES NOT TURN ON

If your machine does not turn on at all, it may be due to a small wire becoming loose or disconnected near the inlet end of the machine. There are several wires connecting the on/off switch, fuse holder, and transformer immediately inside the machine on the fan side (foam filter side). If the machine gets jostled, or if it gets accidentally dropped, one of the wires may have become disconnected. For those who feel comfortable performing self-service, you may remove the end piece, then gently slide the fan out of the machine. If you notice any of the wire connections have become disconnected, it might be obvious for you to determine where to re-attach it. For those who are not comfortable performing self-service, follow the steps below for our comprehensive service department.

IF YOUR MACHINE ONLY BLOWS AIR

If your machine turns on, however no ozone is being produced, it is usually an indication that the generator pack (set of plates) needs to be replaced. When the generator pack is working properly you should be able to hear a distinct buzzing sound and smell the strong scent of ozone emitting from the machine. When it is not working the sound of the machine is much quieter and you only hear a slight breeze as the fan blows air through the machine. For those who feel comfortable performing self-service, you may purchase a new generator pack and install it yourself (see below: replace your own generator pack). For those who are not comfortable performing self-service, follow the steps below for our comprehensive service department. Note: the generator packs are warrantied for one full year after your purchase. If your machine was purchased in the last year contact us for warranty replacement.

IF YOUR MACHINE APPEARS GRIMY

If your machine shows signs of thick, visible grime on the inside near the plates it is recommended to discontinue use and contact us for comprehensive repair or replacement (see trade-in credit below). In extreme cases where grime becomes thick it may pose risk of heating up and melting the external shell. The cause for grime building up inside the machine is usually the result of prolonged use (multiple years) in harsh environments containing cigarette smoke resin, cannabis tar, cat urine, or carpet cleaning chemicals. To determine if your machine is grimy near the plates, look in the outlet end (side without the filter) and inspect the inside walls of the shell of the machine. If you notice thick, visible layers of grime contact us for service. Note: to avoid the build-up of grime in your machine always try to place your machine in a manner that it can breathe clean fresh air while in use.

IF THERE IS DAMAGE TO AN EXTERNAL PART

If your machine has a broken fuse holder, handle, or cord contact us for service. In some cases, we can simply send you a replacement part. If the damage is not fixable by us sending you the part, you can ship us your machine for comprehensive service. See the instructions below for comprehensive service.

REPLACE YOUR OWN GENERATOR PACK

If it is determined that your machine needs a new generator pack (set of plates) and you are comfortable doing some minor wiring, you can purchase a replacement generator pack in our online store and install it yourself. Each model of our machine (RES, PRO, PRO-G) has its own generator pack. The instructions for installation are the same for each model. To replace the generator pack remove the end piece on the outlet end of the machine (side without the filter). Detach the two screws that hold the generator pack in place.

[RETURN TO TABLE OF CONTENTS](#)

Remove the generator pack from the machine then detach the two wire nuts that connect it to the transformer. Install the new generator pack in the reverse order that you removed the original. If you are not comfortable replacing your own generator pack follow the steps below for our comprehensive service department.

COMPREHENSIVE SERVICE DEPARTMENT

If your machine needs service that you are uncomfortable performing yourself, you can send it to our comprehensive service department. The most common need for service is replacing the generator pack. Follow the steps below (request a service form) to begin the comprehensive service process.

REQUEST A SERVICE FORM

In order to initiate the comprehensive service process, please email maxblaster@outlook.com. Include the name on the original order, your service request, and your return shipping address. We will reply with a service form in PDF format. Follow the instructions on the service form and include the form inside the box you use to ship us your machine.

SHIP US YOUR MACHINE FOR SERVICE

After you receive the service form, package your machine in any box and ship it to the address on the form. Be sure to include a copy of the service form inside the box. You may use any type of shipping service including UPS, FedEx, USPS, or DHL. Remember to include a copy of the service form inside the box. If you wish to speed up the process email us the tracking number once you ship us your machine. We will contact you after receiving your machine and reviewing your service form.

TRADE-IN CREDIT: REPLACE WITH A NEW MACHINE

We offer a lifetime trade-in credit for those who would rather purchase a brand-new MaxBlaster instead of servicing their old machine. Our trade-in program is ideal for customers who use their machines in harsh environments and/or on a frequent basis. It is often more efficient to build you a new machine rather than repairing an old one and therefore we make the pricing affordable to trade your machine. For more information contact us for pricing.

(G) RECOMMENDATIONS

The following recommendations provide a general overview of some of the most common applications for our machines. For more information visit our website and find the “guide” page or contact us for advice. We provide free consultation and friendly advice for any type of ozone related application.

(G1) PROPERTY ODORS

Property owners, investors, managers, and realtors are among the most common users of our machines. Ozone has a proven ability to eliminate common odors including smoke odor, pet odor, musty basement odor,

[RETURN TO TABLE OF CONTENTS](#)

mold scent, cooking odor, and other organic-based odors. Follow the operation instructions in this guide for best results.

Product Recommendation: for most property applications, we recommend our MaxBlaster PRO Edition. The PRO Edition combines commercial strength ozone with a long-term lifespan. For those looking to speed up the treatment times and treat entire homes with professional grade ozone we recommend taking advantage of our quantity discounts. For example, a three-pack of MaxBlaster PRO Edition machines make an excellent choice for fast treatments in the average size home (1500sqft). For more advice visit the “guide” page of our website and/or contact us for a free evaluation of your specific property and project goals.

(G2) AUTO DETAILING

Given that the treatment area size is small compared to a house, it is easy to reach high concentrations of ozone quickly inside of a car and thus, easy to eliminate organic odors including cigarette smoke and musty scent. This makes our machines preferred by professional auto detailers who use our machines every day in commercial applications.

Here’s what we recommend: for car treatments use the basic hose accessory to allow the machine to remain outside the vehicle. This helps keep your machine cleaner over the lifespan of the machine as less dirty enters the machine over time. Roll down the window 4”. Place the machine as close to and as level to the window as possible Place the basic hose accessory on the outlet end of the machine then direct the hose into the window. Place a towel over the rest of the open window (it does not have to be 100% airtight). Make sure the carpets and upholstery are completely dry prior to applying the ozone. Keep the glove box, visors, and center console open and exposed to the ozone.

Run your machine so that the ozone blows through the hose and into the window. For average odors it may only take 1-2 hours of treatment to eliminate the odors. For tougher odors it may require 3-6 hours of treatment. For extreme odors, it may require multiple treatments. Keep the air conditioner off during most of the ozone application. This allows the ozone to build up in the car and reach higher concentrations. After allowing the ozone to build up to high levels inside the cabin of the car, you may want to turn on the air conditioner to allow ozone to blow through the vents for a short period. On average you may want to keep the air conditioner off for 75% of the overall treatment and then allow the air conditioner to run for the remaining 25% of the treatment.

Product recommendation: If you are treating your own vehicle and not necessarily concerned with having the ability to treat many cars over time, the Residential Edition MaxBlaster is an ideal choice. If you are a professional auto detailer the PRO Edition MaxBlaster and Basic Hose Accessory is an ideal choice. For specialized treatments that allow you to blow ozone into the upholstery of the vehicle the Target Hose accessory is recommended. Contact us for further advice on the target hose accessory.

Other Notes: It is not mandatory to use the basic hose accessory. Using the basic hose is intended to prolong the life of the plates inside the machine. However, if you run the machine inside the car the short-term odor removal results will be nearly the same with or without the hose. It is not recommended to use the target hose to blow ozone into the window. It is better to use the basic hose because it is wider than the target hose (4” versus 2.5”) and thus allows greater efficiency of ozone entry into the car. The target hose is intended for

[RETURN TO TABLE OF CONTENTS](#)

specialized uses where you aim the ozone directly into the upholstery. For best results, contact us prior to using the target hose.

(G3) MOLD & MYCOTOXINS

Mold is an extremely serious issue that should not be taken lightly. Although mold applications make up a large percentage of our business, we must stress that ozone is often only one part of the overall mold remediation process. We do not guarantee that you will be able to kill all the mold in your property by running one of our machines for a treatment or two. In fact, for proper mold remediation we recommend you consult with a professional prior to using our machines. With that said, the following recommendations should be considered our opinions and not professional guidance.

Ozone does not take the place of other mold remediation efforts.

In order to properly kill mold, you must first stop the source of the moisture/mold problem. This may require significant work to the foundation of your property. If there is existing mold growing on walls you must remove it prior to using ozone. Ozone will not automatically make mold disappear. After stopping the source of moisture/mold the property should be dried out and prepared for the ozone application process. Dehumidifiers can greatly benefit the overall process in many mold related applications. Running an ozone machine, even for several hours and multiple treatments, is not guaranteed to kill all the mold. Ozone is most effective at stopping the remaining mold spores in the air after proper mold remediation efforts are complete.

Ozone may be used to control the symptoms of mold.

Many of those who seek to use ozone for mold are unable to stop the source of the mold itself. For various reasons, they are unable to perform the full-scale mold remediation process. This does not mean that ozone cannot be used in a beneficial manner. In the event you cannot complete all the steps of a professional mold remediation process, you can still use ozone on a periodic basis to at least minimize or control the symptoms. For example, you can use your ozone machine(s) to get the air in your property to a clean level, then perform routine "maintenance" treatments to keep the symptoms of mold under control. For more information see section (B7) Refresh Treatments and/or contact us for advice.

Ozone may benefit those with hypersensitivities to mycotoxins.

Many of our customers suffer from unique sensitivities to mold that result in a wide range of physical reactions when they are exposed to even slight amounts of mold. Not all people respond to mold the same. For example, a husband may suffer from extreme reactions when exposed to mold in a home while the wife experience little to none of the same reactions. This variance is enough to cause serious personal and familial challenges. From our experience, ozone can be used in a beneficial manner to control and/or eliminate the reactions experienced by those who are sensitive to mold. For best results, follow the operation instructions explained in this guide as closely as possible. Be sure to follow the steps described for performing refresh (short) treatments on a continual basis. Contact us for further advice and guidance.

Product recommendation: Given the serious nature of mold we recommend taking the approach of over-doing it instead of trying to find the least expensive way to manage or control a mold problem. For most applications related to mold, we recommend our PRO-G Edition MaxBlaster. For professional strength

[RETURN TO TABLE OF CONTENTS](#)

applications and/or for those who want the ability to control mold in an entire home on a continual basis we recommend taking advantage of our quantity discounts. For example, a three-pack of MaxBlaster PRO-G Edition machines is an ideal choice for those seeking to control mold on a continuous basis in an average sized home (1500-2000sqft).

(G4) HOTEL & GUEST ROOMS

Hotel, motel, and guest room treatments are among the easier and most successful types of treatments for our machines. The reason the treatments are relatively easy is because of the smaller treatment area size (compared to a whole house) and the relatively “newness” of the odors. Odors that have been saturated over many years are much harder to eliminate than odors acquired over a couple of days that a guest occupied a hotel room. You should expect very good results by following the operation instructions of this guide.

Product recommendation: our MaxBlaster PRO Edition is the ideal choice for most hotel owners and operators. It combines commercial strength ozone with a long-term lifespan. The only accessory that you might need is an hourly timer. Most light odors can be eliminated in 1-2 hours of treatment. Moderate odors may take 3-4 hours. Hotel rooms with heavy, saturated odors may require 5-8 hours or treatment and/or multiple treatments.

(G5) MUSTY BASEMENTS

Musty basements are among the most common and easily treatable odors for our machines. Musty odors are very organic, and you should expect great results if you follow our guidelines. First, it is highly beneficial to make sure the basement is as dry as possible. The lower the humidity, the more potent the ozone will perform and less likely the odors will return. Use a dehumidifier to lower the moisture/humidity level prior to using the ozone machine. It may be beneficial to keep the dehumidifier running 24/7/365 after you complete the ozone treatment.

For basements that have a constant moisture problem and/or a continuous water damage issue, it is recommended to perform refresh (short) treatments on a periodic basis after you’ve completed the original high-intensity ozone treatment. One suggestion is to use a program timer (see accessories) and set your MaxBlaster to run for a short period (example: 30 minutes) each day after you complete the initial high-intensity ozone treatment. The idea is to get the basement to a clean level and then maintain those levels by performing continuous refresh treatments. Follow the instructions in this guide for best results and contact us for advice.

Product recommendation: for most musty basement applications our MaxBlaster PRO Edition is the ideal choice. It combines commercial strength ozone with a long-term lifespan and can be operated in harsher conditions than the average ozone machine. A dehumidifier is recommended for most musty basement applications. If you have a constant odor/moisture issue, use the program timer accessory to set your MaxBlaster to perform scheduled refresh (short) treatments on a continuous basis going forward. Make sure to inspect the conditions of your basement on a regular basis if you intend on operating your machine on a daily/weekly basis without supervision.

[RETURN TO TABLE OF CONTENTS](#)

(G6) BOAT & MARINE ODOR

Boat and marine odors are very organic and treatable with proper use of our ozone machines. Given that the cabin size of a boat is relatively small compared to a whole house, you can expect successful results without a ton of effort. Follow the operation instructions in this guide for best results.

Product recommendations: If you are treating your own small boat and not concerned about the speed of the treatment, our Residential MaxBlaster is an ideal choice. If you are performing commercial treatments for a marina or business, our PRO Edition MaxBlaster is an ideal choice. Follow the run time chart for estimated treatment times.

If you are planning on treating the bilge area of the boat, the basic hose accessory is recommended in order to allow the machine to remain outside of the bilge compartment where it can breathe fresh air during the treatment. Use the hose to blow ozone into the bilge area rather than running your machine from inside an area filled with musty, damp, dirty air. Cover any opening in the hatch with a towel. It does not have to be 100% airtight.

Finally, to compliment the results of a high-intensity ozone treatment in a boat, you may consider adding an XS purifier (sold in our store) to run 24/7/365. The XS purifier is a low output, pure ozone generator that produces safe levels of ozone. The XS purifier may prevent new odor from developing while allowing the cabin of your boat to smell fresh all the time. Contact us for further advice.

(G7) APPAREL & ITEMS

Treating apparel and individual items with ozone is more common than most people realize. However, given the uniqueness of the treatment, it requires special set-up instructions. In order to treat individual items and clothes, they must be placed into a small treatment area such as a closet, room, or a box that is big enough to contain all the items. A good suggestion is a portable closet that you can buy at any home improvement store for about twenty-five dollars. If you fill the space with high concentrations of ozone, you can treat all the items within the space. The smaller the treatment area the easier and faster it is to reach high concentrations of ozone.

All the surface areas of the items must be open and exposed. The items cannot be stacked on top of each other within the treatment area. Clothes must be hung up and spaced out. Books must be placed on their back and fanned out. Ozone will not penetrate through solid matter so you must set up the items accordingly. The items cannot be wet or damp. Make sure all items are dry and free of moisture for best results. When choosing your treatment area, remember that it is best for the machine to avoid breathing dirty air.

Use the basic hose accessory to allow the machine to remain outside the treatment and push the ozone into the treatment area for best results. Treating clothes and individual items is relatively simple, yet complex enough that it is difficult to explain in written format. Contact us for advice prior to attempting to treat individual items with our machines.

Product recommendations: if you are only treating a handful of items within a very small treatment area, our Residential Edition is an ideal choice. If you are treating a higher volume of items or are interested in

[RETURN TO TABLE OF CONTENTS](#)

commercial strength (faster) treatments, our MaxBlaster PRO Edition is recommended. The basic hose is required in order to allow the machine to remain outside the treatment area. If you are intending on blowing ozone directly into the fabric of clothing the target hose accessory and respirator mask are required. For advice on how to use the target hose please contact us.

(G8) CIGARETTE ODOR

One of the most common uses for our ozone machines is removing cigarette odors in homes and vehicles. If cigarette odors have been saturated over many years, it can be tough to eliminate them in one treatment. However, with proper use of our machines you can expect very positive results. Follow the operation instructions in this guide for best results and perform multiple treatments if necessary.

Special notes: limit the treatment area size by dividing the house into multiple sections. Treat the house room-by-room which will allow you to reach higher ozone concentrations. For commercial users who may be treating cigarette smoke on a frequent basis, it is advised to set the machine up in a manner that allows it to breathe clean air during the application. If the machine breathes cigarette odors on a regular basis it may eventually add residue and grime to the plates and thus speed up the rate at which they may need to be replaced. See section (B3) Place Machine into Position for more information.

Product recommendations: cigarette odors are among the tougher odors to eliminate in one treatment. Therefore, it is recommended to use as much ozone power as possible. For homeowners looking to treat a single property, the MaxBlaster PRO or PRO-G Edition is an ideal choice. For commercial cleaners who wish to speed up the treatment process, it is recommended to consider a three-pack of either our PRO or PRO-G Edition machines.

(G9) CARPET CLEANING

Carpet cleaners are among the most common types of commercial users of our ozone machines. However, there is a special instruction for carpet cleaners that can save hassle over the long term. Read below for more information and follow the operation instructions in this guide carefully for best results.

Special instructions: over the years we've sold hundreds (if not thousands) of our machines to carpet cleaners. And we've noticed an interesting trend among them. They seem to need service more frequently than other users. And when carpet cleaners send us their machines for service often their machines are extremely grimy and filled with residue near the plates. The cause? It is our belief that most carpet cleaners use their machines immediately after performing their standard carpet washing. They place their machines in the center of the room and allow the machines to breathe damp, soapy, chemical filled air. This leads to a unique reaction that causes the plates to get corroded and grimy.

Remember, for best results, set your machine up in a manner that it can breathe clean air. And if possible, make sure the carpets are completely dry when applying the ozone. See section (B3) Place Machine into Position for more information and/or contact us for advice prior to using our machines for carpet cleaning.

Product recommendations: for professional carpet cleaning our PRO Edition MaxBlaster is the ideal choice. It combines commercial strength ozone with long term lifespan. For those seeking to speed up treatment times

[RETURN TO TABLE OF CONTENTS](#)

and offer professional grade services, a three-pack of MaxBlaster PRO Editions is the ideal choice. If you choose to go with our strongest machine, the PRO-G Edition, it is especially important to make sure to use and store it properly when applying it to carpet cleaning applications.

(G10) DOG & CAT ODOR

Dog and cat odors, specifically urine odors, are very common uses for our machines. However, there is a distinct difference between dog and cat odors that make one relatively easy to solve, and the other among the most difficult. Dog odors are very organic and considered average in terms of difficulty. On the other hand, cat urine odors have a unique enzyme which makes them especially troublesome. If you are using our machines against dog odors, follow the operation instructions for best results. If you are using our machine for cat urine, it is recommended to use an enzyme cleaner prior to applying the ozone. After treating the cat urine areas with an enzyme cleaner (example: floors, carpets) make sure the floors are completely dry. It is recommended to treat the odors on an individual room basis in order to allow the ozone to reach the highest concentrations. Follow the run time chart and consider dog odors as an average to moderate degree odor. Consider cat urine odors among the toxic odors and perform multiple treatments if necessary.

Product recommendations: For dog odors, we recommend our MaxBlaster PRO Edition. For cat urine odors we recommend our MaxBlaster PRO-G Edition. For cat urine odors, do not allow the machine to breathe the cat urine. Set your machine up in a manner that it can breathe cleaner air. Breathing cat urine over time may result in grime developing on the plates and thus requiring service sooner than expected. For commercial business application we recommend a three-pack of either our MaxBlaster PRO or PRO-G Edition machines. Contact us for further advice on how to treat cat urine odors.

(G11) ATHLETIC INDUSTRY

Athletic industry odors make up a smaller percentage of our business. But given our unique history of success in a handful of athletic applications, it is worth mentioning in this guide. For many years our machines have proven successful in applications related to athletic apparel sterilization, locker room deodorization, yoga studio mold prevention, and trampoline park odor control. The key is to set the machine(s) in a manner that allows them to generate ozone in the treatment area without exposing them to the excess humidity and moisture that is often common in athletic related applications. It is also imperative to establish a treatment protocol that allows for high ozone concentrations during unoccupied periods, with enough airing out time to allow for safe breathing levels before occupants return to the space. Given the unique and challenging elements involved in these applications it is recommended to contact us for advice prior to using our machines in athletic spaces.

(G12) CANNABIS INDUSTRY

One of the newest, and fastest growing industries to use our ozone machines is the cannabis industry. There are three main goals that cannabis companies seek when using our machines: killing odors that are escaping their warehouse, sterilizing their grow rooms in between grow cycles, and establishing an equilibrium point of

[RETURN TO TABLE OF CONTENTS](#)

moderate ozone that prevents mold and mites without effecting the growth of the plants. Due to the unique and challenging elements involved in these applications it is recommended to contact us for advice prior to using our machines in the cannabis industry.

(H) DISCLAIMER

The information in this guide is based on feedback from thousands of customers over the last ten years. It is intended to be our honest advice and not necessarily scientific fact. Please consider the following before use:

USE ONLY IN UNOCCUPIED SPACES

Our machines produce higher concentrations of ozone than the EPA recommends as safe to breathe and should only be operated in unoccupied spaces. In our opinion short term exposure to ozone is not extremely risky. It is not poisonous, and it is not necessary to panic. However, you should avoid remaining in the area for more than a few minutes while a treatment is taking place. Follow the estimated run times and make sure to allow enough time to air-out the treatment space prior to allowing occupants to return.

NON-MEDICAL DEVICE

We do not claim to cure or prevent any medical conditions with the use of our machines. If you are using our machines to improve or protect against any health conditions, please understand that it is by your choice and not our direction. For medical recommendations please consult a qualified professional prior to using our machines. We are only able to provide you with answers based on learned feedback from other customers.

NO MOLD GUARANTEES

While ozone may be one part of the process, it does not take the place of other methods used in a professional mold remediation protocol. To kill mold permanently there are often other steps that must be taken in addition to applying the ozone. We do not guarantee that by using our machines you will be able to kill all the mold in your property or vehicle. And we are not certified mold remediation experts. For best results, please consult with a qualified professional prior to using our machines against mold.

NON-SCIENTIFIC ESTIMATES

The ratings for our machines, including the ozone output ratings, are based on comparisons versus other similar ozone machines being sold online including those using components from China. The ratings are estimates and should not be considered scientifically accurate. We recommend that if you need scientifically accurate ratings to conduct your own independent testing prior to using our machines.

(I) FOR MORE INFORMATION

It is our goal for you to experience the highest level of success with our machines both in the short term and over the entire lifespan of your machine. For more information visit our website and contact us if you need advice. We provide real person support and friendly, honest answers to anyone who needs our recommendations. Thank you for taking the time to read this guide!

[RETURN TO TABLE OF CONTENTS](#)

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[RETURN TO TABLE OF CONTENTS](#)