

WARNING: USE IN UNINHABITED AREAS ONLY. OZONE ATTACKS ORGANIC MATTER. LIMITED EXPOSURE CAN CAUSE NAUSEA. PROLONGED EXPOSURE CAN BE HAZARDOUS. PROLONGED EXPOSURE CAN ALSO AFFECT ORGANIC MATERIALS SUCH AS RUBBER, PLASTIC, WIRE INSULATION. DO NOT GET MACHINE WET. CONSULT MSDS SHEET BEFORE USE.

GENERAL INSTRUCTIONS:

ALL CLEANING AND MAINTENANCE WORK SHOULD BE COMPLETED AND THOROUGHLY DRY BEFORE USING THE OZONE MACHINE. OZONE TREATMENT SHOULD BE THE FINAL STEP IN MAINTENANCE.

FOLLOW THESE EASY STEP BY STEP INSTRUCTIONS TO ENSURE PROPER OPERATING PERFORMANCE.

1. MAKE CERTAIN ALL PEOPLE, PETS, AND PLANTS ARE OUT OF THE AREA. CLOSE ALL WINDOWS AND DOORS. PLACE A SAFETY SIGN ON THE DOOR TO THE LOCATION WARNING OF OZONE USE - DO NOT ENTER!
2. MAKE SURE THE FILTER IN THE FRONT OF THE COOLING FAN IS INSTALLED AND CLEAN.
3. PLACE THE OZONE UNIT ON A SHELF OR TABLETOP AS HIGH IN THE AREA TO BE TREATED AS POSSIBLE.
4. PLUG THE POWER CORD INTO A GROUNDED, 3-PRONG OUTLET.
5. SET THE TIMER TO THE DESIRED LENGTH OF TIME.

PRESSING THE UP TIMER BUTTON FOR 1 SECOND WILL INCREASE THE TIME SETTING BY 1 MINUTE AT A TIME. HOLD THE BUTTON FOR 1 TO 3 SECONDS TO CHANGE THE TIME VALUE BY 2 MINUTES PER SECOND. HOLD THE BUTTON FOR LONGER THAN 3 SECONDS AND THE TIME WILL CHANGE BY 20 MINUTE INCREMENTS. THE MAXIMUM TIME SETTING IS 29:59 HOURS. AFTER REACHING THE MAXIMUM TIME THE TIMER WILL WRAP BACK TO 00:00 AND CONTINUE INCREASING. WHEN THE TIME IS BEING DECREASED AND REACHES 00:00, IT WILL WRAP TO 29:59 AND CONTINUE DECREASING.

6. SELECT THE DESIRED POWER LEVEL: 25%, 50%, 75% OR 100%. THE OZONE UNIT ALWAYS SETS TO 100% WHEN IT IS PLUGGED IN. BEST RESULTS ARE ACHIEVED WHEN A LOWER POWER SETTING IS USED FOR TYPICAL ODOR PROBLEMS.

WHEN THE POWER LEVEL IS SET TO 100%, THE UNIT WILL MAKE OZONE CONTINUOUSLY UNTIL THE TIMER RUNS OUT OR THE OFF BUTTON IS PRESSED. AT OTHER POWER LEVEL SETTINGS, THE UNIT WILL PRODUCE OZONE FOR THE FRACTION OF A MINUTE THE LEVEL IS SET AT. FOR EXAMPLE, IF THE OUTPUT LEVEL IS SET TO 75%, THE OZONE SYSTEM WILL PRODUCE OZONE FOR 45 SECONDS OF EACH MINUTE. AT 50%, OZONE WILL BE CREATED FOR 30 SECONDS OF EACH MINUTE, AND AT 25%, THE OZONE GENERATION ONLY WILL OCCUR FOR 15 SECONDS OF EACH MINUTE. ON ANY SETTING OTHER THAN 100%, THE OZONE GENERATOR WILL BE CYCLING THE OZONE ON AND OFF.

THE SETTING USED IS BASED ON THE SIZE OF THE AREA TO BE TREATED. FOR EXAMPLE, WHEN TREATING A SMALL ROOM WITH A MINIMAL ODOR PROBLEM THE BEST RESULTS ARE ACHIEVED BY USING A LOWER SETTING AND AT DOUBLE THE PRESCRIBED TIME. (50% POWERLEVEL FOR 60 MINUTES.) FOR LARGER ROOMS OR ROOMS THAT REQUIRE A HEAVY TREATMENT, SUCH AS FIRE DAMAGE OR FLOODING, BEST RESULTS ARE ACHIEVED WITH A 100% POWER LEVEL FOR THE MAXIMUM TIME.

7. PRESS THE ON BUTTON TO TURN THE O-Z SYSTEM ON. LEAVE THE AREA.
8. WHEN THE TREATMENT IS COMPLETE, UNPLUG THE OZONE UNIT AND VENTILATE THE AREA COMPLETELY UNTIL THE SMELL OF OZONE IS GONE. DO NOT ALLOW PEOPLE PETS OR PLANTS BACK INTO THE AREA UNTIL ALL SMELL OF OZONE IS DISSIPATED.

NOTE: FOR BEST RESULTS USING THE O-Z SYSTEM RUN A CARPET DRYER/AIR MOVER FAN AT THE SAME TIME AS THE O-Z SYSTEM. OZONE IS HEAVIER THAN AIR AND WILL FALL TO THE BOTTOM OF THE ROOM, WHICH IS WHY THE O-Z SYSTEM IS PLACED AT THE HIGHEST AVAILABLE POINT IN THE ROOM. ANGLING THE DRYER/AIR MOVER AT A 45 DEGREE ANGLE, POINTED TOWARDS THE WALL WILL CREATE A CIRCULAR AIR MOVEMENT FOR MORE EFFECTIVE TREATMENT.

TIME GUIDELINES

THE O-Z CARE SYSTEM WILL CONTROL BIOLOGICAL CONTAMINATION AND ODOR IN AREAS UP TO 40,000 CUBIC FEET. RECOMMENDED TIMES FOR TREATMENT ARE BASED ON THREE AIR CHANGES. TO CALCULATE THE APPROXIMATE TIME TREATMENTS USE THE FOLLOWING CALCULATION:

(X CUBIC FEET DIVIDED BY 100 CFM) X 3 = TIME SETTING

EXAMPLE:

(1000 CUBIC FOOT ROOM DIVIDED BY 100) X 3 = TIME SETTING

10 X 3 = TIME SETTING

30 MINUTE TIME SETTING

USE THE FOLLOWING TIMES AS A GUIDELINE:

FIRE & FLOOD RESTORATION 12 - 72 HOURS

HOTEL/MOTEL ROOM 20 - 60 MINUTES

VEHICLE 20 - 30 MINUTES

NOTE: OZONE DESTROYS ODOR CAUSING MOLECULES, THUS ELIMINATING THE SOURCE OF THE ODOR. THE LENGTH OF TIME THIS PROCESS TAKES WILL VARY DEPENDING ON THE AMOUNT OF CONTAMINANTS THE OZONE HAS TO WORK ON, THE AMOUNT OF AREA BEING TREATED. THE OZONE PROCESS CAN PRODUCE A HAZE IN THE AIR WITHIN THE AREA BEING TREATED.

MATERIAL SAFETY DATA SHEET (MSDS)
24 HOUR EMERGENCY PHONE 1-800-228-5635 EXT. 163
NAME: OZONE
PRODUCT: TRIATOMIC OXYGEN
ISSUED: 12/01/00

SECTION 1 IDENTIFICATION
CHEMICAL NAME: TRIATOMIC OXYGEN
CHEMICAL FAMILY: GAS
DOT HAZARD CLASS: N/A
DOT IDENTIFICATION: N/A

SECTION 2 - HAZARDOUS INFORMATION
COMPONENT: OZONE GAS
CAS# 10028-15-6
TLV: 0.1PPM

SECTION 3 - PHYSICAL DATA
APPEARANCE AND ODOR: COLORLESS GAS, PUNGENT ODOR. MINIMAL DETECTABLE ODOR AT 0.02PPM.
BOILING POINT: 112'C
VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
SOLUBILITY, V IN WATER: N/A
SPECIFIC GRAVITY (H2O = 1): 1.6 G/L (LIQUID)
MELTING POINT: 192'C
EVAPORATION RATE: N/A

SECTION 4 - FIRE & EXPLOSION DATA
NOT FLAMMABLE, BUT ENHANCES COMBUSTION OF OTHER SUBSTANCES TO CAUSE FIRE OR EXPLOSION.
FLASH POINT: N/A
FLAMMABLE LIMITS: N/A
LEL: N/A
UEL: N/A
FIRE EXTINGUISHING MEDIA: USE THE EXTINGUISHER APPROPRIATE TO BURNING MATERIAL.
SPECIAL FIREFIGHTING PROCEDURES: NONE
UNUSUAL FIRE HAZARDS: INCREASED OXYGEN CAN FEED FIRE.
EXPLOSION HAZARDS: NONE

SECTION 5 - REACTIVITY DATA
STABILITY: UNSTABLE. BEGINS TODISSIPATE IMMEDIATELY.
CONDITIONS TO AVOID: N/A
INCOMPATIBILITY: HIGH LEVELS FOR EXTENDED PERIODS WILL CAUSE DETERIORATION OF RUBBERS, PAINT AND METAL.
HAZARDOUS DECOMPOSITION: N/A
HAZARDOUS POLYMERIZATION: NONE

SECTION 6 - HEALTH HAZARD DATA
HEALTH HAZARDS: IRRITATION OF THE EYES AND RESPIRATORY TRACT. INHALATION OF THE GAS MAY CAUSE LUNG EDEMA OR ASTHMATIC REACTIONS. SYMPTOMS MAY NOT BECOME NOTICEABLE FOR SEVERAL HOURS. LUNGS MAY BE AFFECTED BY REPEAT OR PROLONGED EXPOSURE.
CARCINOGENICITY: NONE KNOWN.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/A
METHODS OF EXPOSURE: INHALATION AND CONTACT WITH SKIN AND EYES.

SYMPTOMS OF EXPOSURE: COUGH, DRY THROAT, IRRITATED EYES, HEADACHE. POSSIBLE ASTHMA-LIKE SYMPTOMS WITH OVEREXPOSURE.

EMERGENCY FIRST AID:

EYE AND SKIN: MOVE TO FRESH AIR.

INHALATION: MOVE TO FRESH AIR. SEEK MEDICAL ATTENTION IF ASTHMA-LIKE SYMPTOMS ARE NOTICED.

INGESTION: N/A

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING & USE

STORAGE AND HANDLING: N/A

SPILL RESPONSE: N/A

WASTE DISPOSAL: N/A

OTHER PRECAUTIONS: EPA RECOMMENDED EXPOSURE LIMITS: 0.1PPM/ 8 HOURS OR MAXIMUM 0.3PPM FOR 10 MINUTES.

NOTE: THE THRESHOLD LIMIT VALUES REFER TO AIRBORNE CONCENTRATIONS OF OZONE AND REPRESENT CONDITIONS UNDER WHICH IT IS BELIEVED THAT NEARLY ALL WORKERS MAY REPEATEDLY BE EXPOSED DAY AFTER DAY WITHOUT ADVERSE EFFECT, HOWEVER A SMALL PERCENTAGE OF WORKERS MAY EXPERIENCE DISCOMFORT AT LEVELS BELOW THOSE LISTED.

SECTION 8 - CONTROL MEASURES

THIS GAS IS DESIGNED TO BE USED FOR A LIMITED TIME IN A CONTROLLED ENVIRONMENT.

EYE PROTECTION: NONE

VENTILATION: WHEN TREATMENT IS COMPLETE, VENTILATE THE AREA COMPLETELY UNTIL ALL SMELL OF OZONE IS GONE. DO NOT ALLOW PEOPLE OR PETS INTO THE AREA UNTIL THE OZONE SMELL IS ELIMINATED.

RESPIRATORY PROTECTION: DO NOT USE IN INHABITED SPACES. CLEAR ALL PEOPLE, ANIMALS, PLANTS AND ANY OTHER ORGANIC LIFE FROM THE AREA TO BE TREATED.

PROTECTIVE CLOTHING OR OTHER EQUIPMENT: NONE

WORK/HYGENIC PRACTICES: N/A

DISCLAIMER: THE INFORMATION IN THIS DOCUMENT APPLIES TO WORKPLACE EXPOSURE AND IS NOT DESIGNED FOR THE POPULATION AT LARGE. ANY GENERALIZATION BEYOND OCCUPATIONAL EXPOSURES SHOULD NOT BE MADE.