

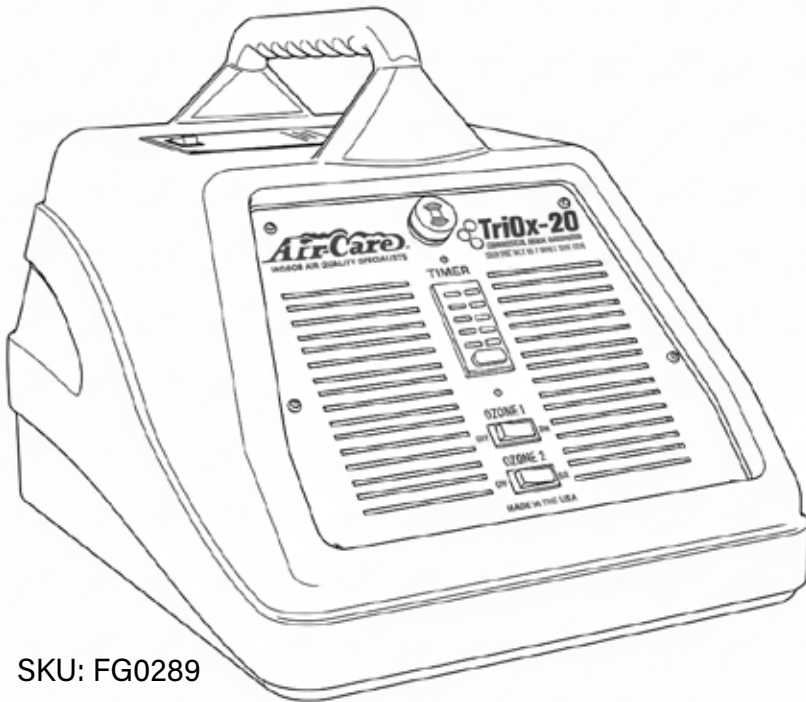
# TriOx-20

COMMERCIAL OZONE GENERATOR  
120V / 289 WATTS / UVC / 250 CFM

## USER MANUAL

Congratulations on your purchase of the TriOx-20 Professional Ozone Generator. This high-performance device utilizes advanced 2 ozone generators to provide medical-grade air purification and odor elimination for residential, automotive, and commercial environments. Designed for "shock treatments," the TriOx-20 effectively neutralizes mold, smoke, and volatile organic compounds (VOCs) at their source. To ensure the most effective results and to maintain a safe operating environment, please read this manual in its entirety before use.

**Note: This device is designed for use by professionals in unoccupied spaces only.**  
EPA Est. No. 96893-NV-1



SKU: FG0289

## Safety First!

**[!CAUTION!] UNOCCUPIED SPACES ONLY:** Ozone in high concentrations is hazardous to humans and animals. Never operate the TriOx-20 in a room with people, pets, or live plants.

**Treatment Area:** Ensure the area being treated is completely sealed off from occupied rooms. Place warning door hangers on all entrances.

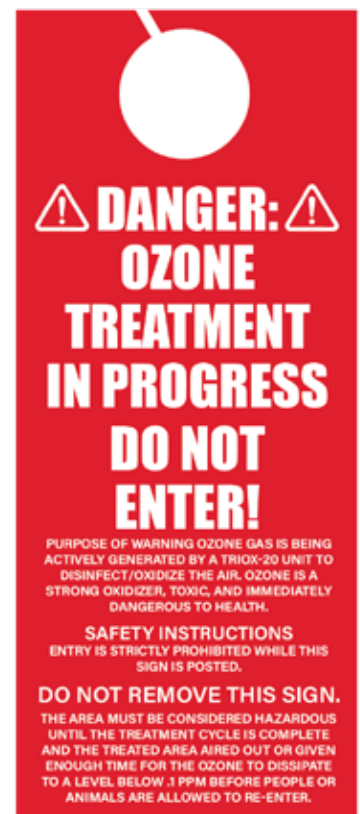
**Post-Treatment Ventilation:** After the timer expires, wait at least one hour, depending on your meter reading (see page 3) for the ozone to dissipate back into oxygen before re-entering the area. If possible, open windows and doors to accelerate ventilation. Use the **ozone meter** to test the air in the room(s).

**Respiratory Protection:** If you must enter a room while the machine is operating, wear a properly rated O3-respirator mask. We recommend searches on Amazon or Granger.com.

**Flammability:** Do not use the TriOx-20 in environments with high concentrations of flammable gases, vapors, or explosives.

**Electrical Safety:** Ensure the machine is plugged into a grounded (three-prong) outlet. Do not operate with a damaged cord or in wet/high-moisture conditions.

**Warning Label:** On the top of the TriOx-20 there is a warning label that should be read before operating the device.



Air-Care, Inc. assumes no liability for damages or injuries incurred by misuse of this equipment.

# Treatment Times

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## \* Treatment Times for the TriOx-20 Commercial Ozone Generator

Be aware that every odor treatment scenario is unique,  
and treatment duration will differ accordingly.

Square Feet	Mild Odor	Medium Odor	Strong Odor
500	1/2 Hour	1 Hour	2-3 Hours
1000	1 Hour	2 Hours	3-4 Hours
1500	2 Hours	3 Hours	4-5 Hours
2000	3 Hours	4 Hours	5-6 Hours
2500	4 Hours	5 Hours	6-8 Hours
3000	5 Hours	6 Hours	8-10 Hours
3500	6 Hours	8 Hours	10-12 Hours
Use 'HOLD' setting for longer than 8 hours.			
Repeat if needed.			

# Specifications

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Item	Specification
Ozone Output	Dual 10,000 mg/hr generators (20,000 mg/hr max)
Airflow	250 CFM
Housing Material	Cross-Linked Polyethylene (XLP/PEX) - Ozone Resistant
Germicidal Irradiation	UVC Bulb
Controls	Individual generator switches, master power switch
Safety Indicator	Integrated warning light
Power Requirements	120v, 289w
AMPS	2.4 Amps
Dimensions	14.4" x 19.5" x 14"
Weight	13 lbs.

# Operating the TriOx-20

The effective concentration of ozone for odor destruction typically ranges from very low levels for minor air freshening to high concentrations for professional “shock” treatments.

## Effective Concentrations for Odor Removal

**Minor Air Purification:** Concentrations between 0.02 and 0.08 ppm are generally sufficient for deodorizing air and removing light odors.

**Intensive “Shock” Treatment:** For stubborn odors like smoke, mold, or decay, a minimum concentration of 5.0 ppm is often required to permanently eliminate resistant odors and bacteria. (SEE NEXT SECTION ON SHOCK TREATMENTS)

**Commercial/Industrial Odor Control:** Professional applications may target concentrations between 1.0 and 2.0 ppm for general disinfection and stronger odor control.

**Warning: Concentrations of 5.0 ppm or higher are considered dangerous. Refer to the OSHA warning label on top of the TriOx-20 unit.**

**High-concentration ozone treatments must only be performed in unoccupied spaces (no people, pets, or plants) and require thorough ventilation (minimum of one hour, depending on your meter reading (see below) before re-entry. Please use the ozone detector and protective gear when entering room.**

## Key Effectiveness Factors

**CT Value (Concentration × Time):** The total effectiveness depends on both the concentration and how long it is maintained. For example, a lower concentration (0.2 ppm) run for a longer period can achieve the same result as a higher concentration (0.4 ppm) run for a shorter time.

**Odor Threshold:** Humans can typically detect the “metallic” or “chlorine-like” smell of ozone at levels as low as 0.01 to 0.03 ppm.

## Safety and Regulatory Limits

Because ozone is a toxic gas, safety standards strictly limit human exposure to levels far below what is needed for intensive odor removal:

**Occupied Spaces:** Federal agencies like OSHA and NIOSH recommend an exposure limit of no more than 0.1 ppm for an 8-hour period.

**Medical Devices:** The FDA requires ozone output for indoor medical devices to be no more than 0.05 ppm.

# Operating the Ozone Detector



## How to Use

**Turn Off/On:** a) When powered off, press **Right Button** to turn on the device.

b) When power is on, press **Right Button** to turn off the device. If the device will not turn on, plug-in and charge the Detector.

**AQI (O<sub>3</sub> concentration):**

	Good	Slight	Serious
AQI Level Indicator	0-0.99 ppm	1.00-9.99ppm	10.00-50.99ppm

**O<sub>3</sub> Alarm:** a) O<sub>3</sub> alarm sounds at 1.00 ppm. b) Single-press **Left Button** to turn on/off the O<sub>3</sub> alarm sound.

**Sleep Mode:** (Default sleep mode is **OFF**) Double click left button.

**The buzzer beeps 1 time:** Activate Sleep Mode (If there is no operation for 60 seconds, the display screen will turn off to save power, but the device is still working normally. Any click on the left or right button will light up the display screen).

**The buzzer beeps 2 times:** Exit sleep mode.

**Temperature Unit:** a) Double press Right Button to switch the temperature unit between Celsius (°C) and Fahrenheit (°F)

**Charging:** When low battery icon is displayed the device needs to be charged. Insert the type-C charging cable into the device. Attach the other end to a USB DC charger. Fully charge for at least 2-3 hours before use. Avoid charging with a USB computer port which only outputs 500mA.

# Operating the Timer

The TriOx-20 timer is an electronic countdown timer featuring single-button operation for preset times and a separate “Hold” mode for continuous operation. No complex programming is required.

## Turning ON and Selecting Time (Timer Mode):

Press and release the main push button repeatedly to cycle through the available preset countdown times: 1 hour, 2 hours, 4 hours, and 8 hours, or to select OFF.

The illuminated LED light next to the selected time setting indicates the current active countdown duration.

The connected fan, UVC lamp, and ozone generator will turn ON and remain on for the selected time interval, then automatically turn OFF when the time counts down to zero.

## Continuous Operation (Hold Mode):

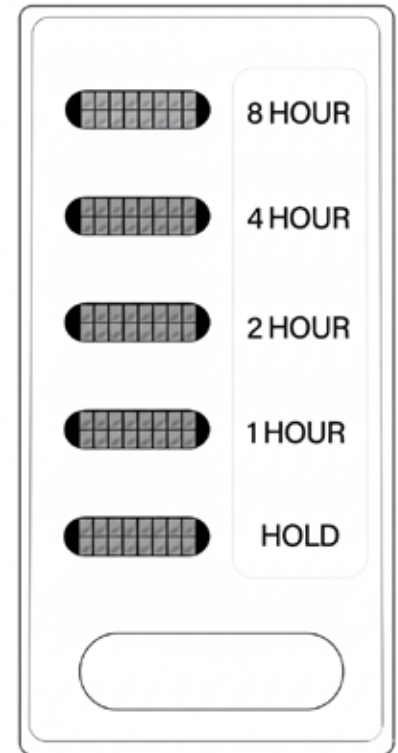
To turn the unit ON for an extended or continuous period of time, press and hold the main push button for more than 2 seconds.

The timer will enter “HOLD” mode, and the dedicated “HOLD” LED will turn on to indicate continuous operation. The fan will stay on indefinitely until manually turned off or the mode is exited.

## Exiting Any Mode and Turning OFF:

To turn the timer OFF from any mode (Timer or Hold), press and release the main push button.

All LEDs will turn off, and the TriOx-20 unit will be switched OFF.



**Timer**  
SKU: 0764

# Shock Treatments

Shock treatment is a high-intensity decontamination process used to permanently eliminate **severe odors** by flooding an unoccupied space with high concentrations of ozone gas. Unlike low-level air purification, shock treatments target the molecular source of odors embedded in surfaces and fabrics.

## 1. Preparation

Before the machine is even plugged in, the environment must be “cleared and sealed.” High levels of ozone are toxic and corrosive. Place the warning door hanger on all entrances.

- **Total Evacuation:** Remove all people, pets, and living plants. Ozone kills plant tissues.

- **Clean the Source:** Ozone works best on residual odors. Remove the physical source (trash, mold, spills, or decaying source) first.

- **Protect Materials:** Remove or cover items made of natural rubber (elastic, gaskets), delicate fabrics (silk, fine wool), and expensive electronics to prevent oxidative damage.

- **Seal the Space:** Close all windows and doors. Use painters’ tape or a damp towel at the base of the door to prevent gas from leaking into occupied areas.

- **Set the Timer:** The TriOx-20 has a manual timer. Ensure it is set so the machine turns off automatically.

## Shock Treatments (Cont.)

### 2. Saturation

This is the phase where the ozone generator is active and the concentration builds up to the level required to kill odors.

- **Placement:** Place the generator in a high location (ozone is heavier than air and will sink). If needed, place a 20" x 20" box fan (sold separately) in front of the unit, to help the gas distribute.
- **Concentration:** For a "shock" effect, the goal is to reach 5.0 ppm or higher.
- **Duration:** \* (See time estimates on page 2)

**Vehicles:** 15–45 minutes.

- **Small/Standard Rooms:** 1–4 hours.
- **Extreme Cases (Fire/Flood):** Up to 24–48 hours. We suggest using a box fan for higher ozone gas distribution.

### 3. Oxidation

During this phase, the O<sub>3</sub> molecules go to work at a molecular level.

- **Chemical Action:** The unstable third oxygen atom breaks away and attaches to odor-causing molecules, bacteria, and mold spores.

- **Molecular Destruction:** This process permanently alters the chemical structure of the odor, essentially "burning" it at a microscopic level rather than just masking it with a scent.

- **Penetration:** Because it is a gas, the ozone saturates porous materials like carpets, drywall, and upholstery to reach odors embedded deep within surfaces.

### 4. Room Ventilation

Once the machine shuts off, the ozone must safely turn back into breathable oxygen before anyone can enter.

- **The "Wait Period":** Ozone has a half-life of roughly 20 minutes. You must keep the room sealed for at least wait at least one hour, depending on your meter reading (see page 3), after the machine stops to allow the majority of the O<sub>2</sub> to revert to O<sub>2</sub>.

- **Initial Entry:** Quickly enter the room and use an optional ozone tester to measure the levels in the room. Open windows and turn on exhaust fans, then leave immediately.

- **Aggressive Ventilation:** Let the room air out for an additional 1 to 4 hours.

- **Final Check:** Do not resume normal occupancy until you test for .03 ppm levels using an ozone detector (optional).

## Parts List



**Ozone Generator**  
SKU: COM0763



**UV-C Lamp**  
SKU: ACC0192



**250 CFM Fan**  
SKU: COM0773



**Filter & Guard**  
SKU: COM0768



**Ozone Detector**  
SKU: COM0768



**Door Hanger**  
SKU: MM0250

# Warranty

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<b>Cabinet</b>	Lifetime
<b>Ozone Generators</b>	90 Days
<b>UV-C Lamp</b>	90 Days
<b>250 CFM Fan</b>	90 Days

Warranty covers both parts and labor, (labor is to be performed at Air-Care's facility located at 3868 E. Post Road; Las Vegas, Nevada).

Warranty is extended to the original purchaser and is not transferable.

This warranty does not extend to any damage to a product caused by or attributable to freight damage, abuse, misuse, improper or abnormal usage. Warranty is also void if the product has been modified or altered in any way.

The purchaser is responsible for the cost of shipping the equipment to Air-Care's facility for evaluation. If found to be defective and covered by the terms of this warranty, Air-Care will pay UPS ground shipping charges on the repaired or replaced item back to the purchaser's location. Any additional expedited service charges for quicker shipping shall be born by the purchaser. If the product or component is not found to be a warranty issue, the purchaser will be responsible for return shipping charges.

Air-Care is not responsible or liable for indirect, special, or consequential damages arising out of or in connection with the use of performance of the product; damages with respect to any economic loss, loss of property, loss of revenues or profits, loss of use, or other incidental or consequential damages of whatsoever nature.

The warranty extended hereunder is in lieu of any and all other warranties, and any implied warranties of any type.

This warranty gives you specific rights. These rights and others vary from state to state.



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