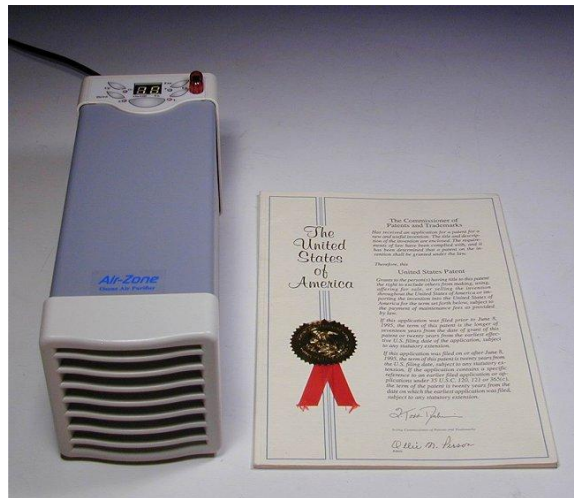


# XT-400/800 Ozone Generator

## Operating Instructions



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## XT-400, XT-800 Ozone Generators

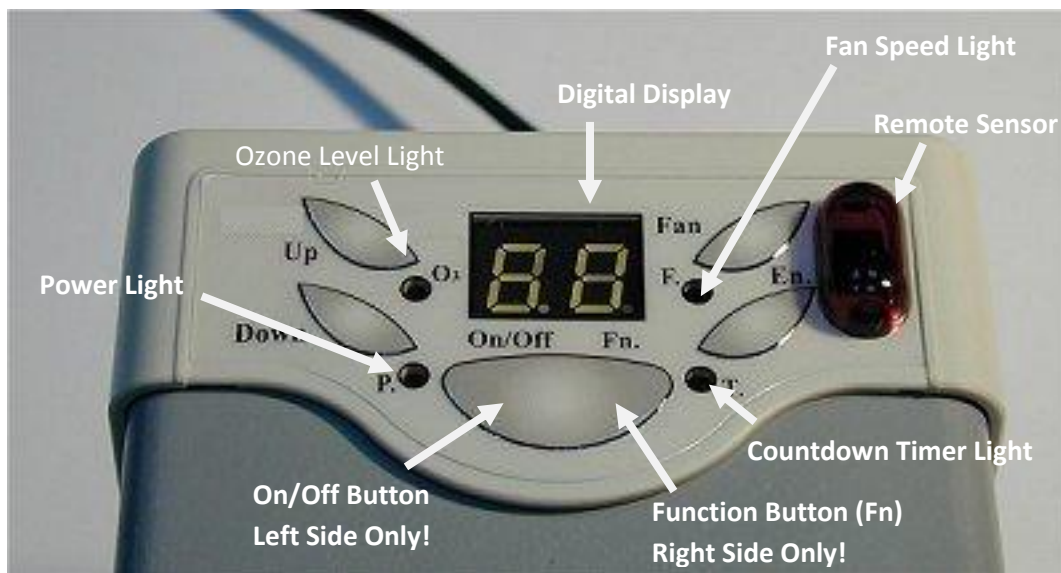
The XT series of ozone generators feature a patented method of creating ozone by corona discharge know as Xetin ozone.

These units can be used to either purify the air or to give high ozone "shock treatments" to small areas contaminated by odors, mold, or bacteria.

### Controls

1. The ON/OFF button turns the power on or off. It is located on the left-hand side of the large button.
2. Push the FUNCTION selector button (At right hand side of the large button) to rotate through the functions: sound on or off, ozone level, timer and fan speed. The four small lights surrounding the main Digital Display will show the different FUNCTIONS of the unit. The proper light must be lit for the function to be controlled.

The lights represent Power (P), Ozone Level (O<sub>3</sub>), Fan Speed (F), and the Countdown Timer (T).



Press the FUNCTION button until just the P light, and the light for the function to be controlled, are lit. The P light will always remain lit.

If all four lights are lit, press the function button once more to move the lights around the dial until the corresponding lamp is lit for the function you wish to control.

- To select the OZONE LEVEL, press the FUNCTION button until the "O<sub>3</sub>" light and the Power (P) light are lit. Then push the up or down buttons on the left-hand side to adjust the ozone level up or down from level 1 to level 10. This will "burst" the ozone on for either 2, 5, 10, 15, 20, 25, 30, 40, 50, or 60 seconds per minute, with level 10 being 60 seconds per minute( or continuously).

The center LED will display the number of the ozone level.

Ozone Level	1	2	3	4	5	6	7	8	9	10
Seconds per Minute	2	5	10	15	20	25	30	40	50	60

This will control the overall ozone output of the unit.

**This function will work only when the Power (P), and "O<sub>3</sub>" lamp are lit.**

After all the other functions are set you may leave it on this setting.

- To select the FAN SPEED, press the FUNCTION button until the Fan "F" light and the Power (P) light are lit. Then push the FAN BUTTON (upper right hand side) to adjust the fan speed from low (LL), medium (M), or high (HH). It is recommended to keep the fan speed on high (HH). Note that the medium setting looks like mirror image "7" facing each other.

\*The fan will only come on for the seconds per minute assigned to the Ozone Level.

- To set the COUNTDOWN TIMER press the FUNCTION button until the TIMER "T" light and the Power (P) light are lit. Push the up or down buttons at the left hand side to set the "countdown timer" for 10, 20, 30, 40, 50, 60 up to 90 minutes. The Timer can also be set to the "cn" level which means it will run continually and not shut off.

The unit will then run for the length of time that has been selected and permanently shut off. The panel lights will remain lit even though the unit is "sleeping". This means the unit is in SLEEP MODE. The unit must now be turned off and then powered back on in order to change a setting or restart the unit.

It is a good idea to set the timer when the unit is first used to make sure the unit is set to the time the user wants it to be.

When you turn off the unit, the ozone generator will memorize the last settings and return the ozone level, fan speed and timer to where they were set before.

Please note that if there is a power failure in your home, the unit will restart at the last setting it was set to before the power outage. If the unit is left on the continuous mode it will run indefinitely after a power outage. Please be aware of this if there are frequent power failures in your area.

6. "Beep" setting: The audible beep sound may be turned on, or off by the user. Press the FUNCTION button until all four lights are lit (P, O<sub>3</sub>, F, T). Then press the up button to turn the "ON" beep function in the main LED, or press the down button to turn off the beep sound which will show OF in the main LED display.

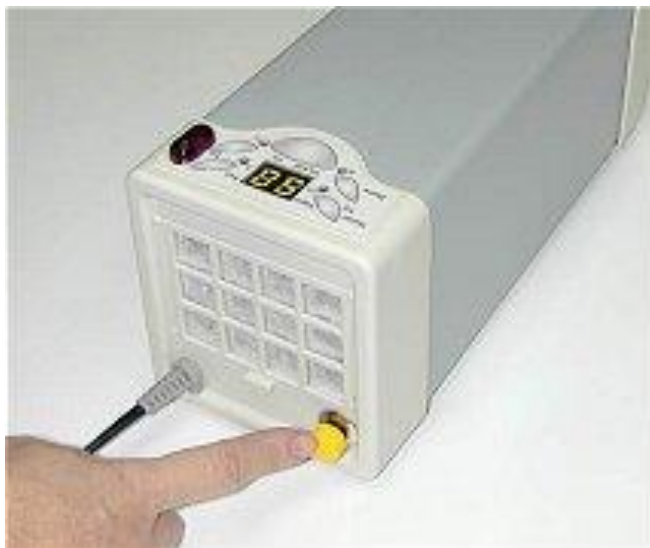
The blinking POWER LED means the unit is "sleeping" awaiting your command.

The red bubble on the control panel is the infrared receptor for the remote control.

## **XT-800 Half Power Control**

The XT-800 can be switched into a half power mode where one of the transformers can be switched off. The bottom three elements are shut off and the total output of the machine then becomes 400mg/hr. If the XT-800 is too powerful for a given situation the "half power mode" can be chosen.

The Half Power button is the green button located on the rear of the unit. The user can tell what mode the unit is in by looking at the elements lit up in the nose of the unit. At full power all 6 elements are lit up. In the half power mode only 3 of the elements will be lit.



## **Wireless Infrared Remote Control**

It is important that the user understand the operation of the unit before attempting to use the remote control. It is best to understand the main control panel settings prior to using the remote control.

The buttons on the remote control operate the ozone generator exactly the same way as the controls on the unit.

All the remote buttons work the same as the control panel buttons.

Hint: If you mount the unit at a high location you can “bounce” the remote signal off the ceiling to make the unit work.



The Remote Control Panel features five buttons labeled FAN, FUNCTION, POWER, UP and DOWN. Press the red POWER button to turn the unit on and off.

The **FUNCTION selector button** is used to program the fan speed, the ozone level (ozone burst timer), program the countdown timer, or to turn the audible beep sound on/off.

### **To Set Fan Speed:**

Press the FUNCTION button until the orange FAN (F.) light is lit. Press the FAN button to set the fan speed to low, medium, or high.

### **To Set the Ozone Level (O<sub>3</sub>):**

Press the FUNCTION button until the green O<sub>3</sub> light is lit. Use the UP and DOWN buttons to set the ozone level up or down from level 1 to level 10. This will burst the ozone on for either 2, 5, 10, 15, 20, 25, 30, 40, 50, or 60 seconds per minute. Level 10 is 60 seconds per minute or continuous.

\*The Power (P.) light is steady red when ozone is being produced, and *blinks red while counting down to the next ozone burst.* For example, if the O<sub>3</sub> setting is on 1, the Power (P.) light will be steady for 2 seconds and blink for 58 seconds.

### **To Set the Countdown Timer (T.):**

Press the FUNCTION button until the red TIMER (T.) light is lit. Use the UP and DOWN buttons to set the timer for 10, 20, 30, 40, 50, 60, 70, 80, 90, or cn (continuous). If you select cn (continuous), the unit will run continually and not shut off. All other selections will run for the programmed time and then shut off.

### **To Set the Audible Beep:**

Press the FUNCTION button until all the lights on the unit are lit (the O<sub>3</sub> light is steady green, the Fan (F.) light is steady orange, the Timer (T.) light is steady red, and the POWER light is lit).

Use the UP and DOWN buttons to turn the audible beep on or off.

### **Location of Unit**

Ozone is heavier than air, so placing the unit as high as possible is advised.

Keep the unit away from dusty, dirty areas. Do not put the unit on the floor where dust can get to it.

The ozone generator should be placed where the best possible ozone distribution can be obtained. A fan can greatly aid in the distribution of ozone.

Placing the unit on the other side of the room away from the occupants will result in the best possible coverage of the room. This will also prevent too much ozone from building up around the occupants.

Firing the unit into the return air duct of an air handling system is an excellent way to assure even distribution of ozone throughout an entire house.

### **Ozone Levels**

Ozone at low levels has a fresh clean smell much like that of a rainstorm.

It is not necessary to smell the sweet smell of ozone for it to be effective.

Ozone works best when it is turned down *below* the level detected by the nose.

Start with the ozone at level 1 for room air cleaning. You should notice a sweet smell similar to that of after a thunderstorm. If more ozone is desired, switch the ozone level up to 2, 3 or whatever level is required.

The proper level of ozone is the level at which all the ozone is being used up to accomplish the removal of odors, and freshen the air without leaving a bleach odor.

If the air is still not fresh enough turn the ozone control knob until the odors are not as noticeable. Note that after a period of time the ozone level in the room can build up, and the ozone level may need to be turned down.

Adjust the ozone level according to the level of odor contamination in the room.

If the ozone generator is used to combat cigarette smoke adjust the level of ozone output for the amount of smokers in the room. If the unit is set on a high level for 10 smokers and 9 leave the room, the ozone level should be turned down accordingly.

Overuse of ozone is not recommended. If too much ozone is present in the room the ozone smell can turn from sweet to a bleachy odor. This should be avoided.

This can happen very quickly so it is advised to start with the ozone level as low as possible.

The nose can rapidly lose its ability to smell the ozone.

Ozone at too high a level can cause a headache, burning eyes, or a sore throat.

If this occurs simply turn the ozone control down to a non-objectionable level.

To get the most effective air cleaning from ozone, it is recommended that you use as little ozone as possible to control odors.

## **Shock Treatments**

If there are strong odors the room should be pre-treated with a High Ozone Shock Treatment to remove the odor BEFORE attempting to run the machine at a lower, air purification level of ozone.

To remove strong odors in a room the ozone level should be set to its highest level.

The room should be shut off with no people, animals, or plants in the room.

Turn on the unit with the ozone level set at the highest possible position.

Set the timer for a period of up to 90 minutes. Then wait at least 30-60 minutes, after the timed cycle, to re-enter the room. Upon re-entering the room, air the room out by opening windows. **If a long period of shock treatment is desired set the unit's timer on the continuous level (CN)** (a separate lamp timer can be used to run the unit for a longer period of time). A thorough shock treatment can take up to 8 to 12 hours. The area should remain unoccupied for half the time that you ran the unit.



It is not recommended to enter a high ozone environment.

The room may have an obnoxious “bleach-like” odor at first, but after airing the room out it will smell much fresher than before the treatment.

Although the XT-400/800 has a high ozone output of 400/800 mg. per hour, severe odors or larger areas may require the use of a larger ozone generator.

**Please note that areas can ONLY be sanitized of bacteria and mold by the use of High Ozone Treatments and that air purification levels of ozone will not sterilize environments.**

HIGH OZONE TREATMENTS CAN ONLY BE PERFORMED IN ROOMS THAT ARE UNOCCUPIED OF ALL PEOPLE, PLANTS, OR ANIMALS.

## **Maintenance**

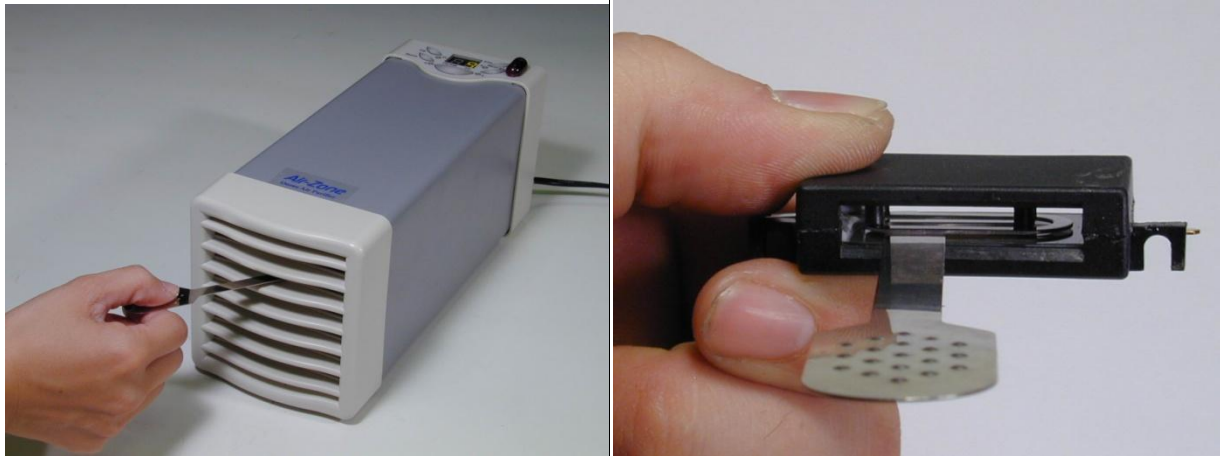
The model XT-400/800 ozone generators incorporate a patented method of corona discharge ozone generation that requires almost no maintenance.

ALWAYS unplug the unit before cleaning. The outside of the unit can be cleaned with a moist paper towel. A small vacuum attachment can be used to gently vacuum the dust that may accumulate in the vents of the unit.

Please be very careful not to poke anything in the holes of the unit when doing this. High voltages exist and can cause a shock if objects are placed in the top holes of the unit.

A special steel element cleaning tool has been included with your unit. It can be used to push any dirt out of the elements. The ozone generator should also be set to its highest

level for 30 minutes to burn off any accumulated dirt buildup.



Another cleaning option is to remove the ozone elements (be careful not to snap or damage the wire connectors) and soak them in a warm water/Dawn dish detergent mix. Only a small amount of Dawn is needed. Let the elements soak for an 10-20 minutes and then rinse in warm water. Then let them air dry on a towel overnight.

There is a small electrostatic 3M "Filtrete" air filter pad on the backside of the generator to keep dust from entering the unit. When the filter becomes dark or dirty, usually between two and three months, the user should replace the filter with one of the replacement filters included. Do not reuse the old filters.

The unit comes supplied with a one-year supply of filters. After that the user may purchase additional replacement filters from Air-Zone, Inc.

The corona elements inside may eventually burn out or become so dirty they will need to be replaced. If you suspect the unit has a burnt out element, turn the ozone level to its highest setting and turn the light out in the room. If one of the elements is not glowing purple, or is glowing very dimly, then that element may need changing.

There are 3 elements in the XT-400 and 6 in the XT-800.

Elements are grouped together so that each transformer has a group of three. If three elements appear to be out, the unit may have a bad transformer. If the unit is an XT-800 please check the half power switch.

If you have a blown element or transformer please contact Air-Zone for a replacement.

The corona elements should last for years and are reasonably inexpensive.

## **Warranty Information**

Every Air-Zone ozone generator is checked to ensure perfect working condition before it is shipped, and is under warranty from manufacturing defects for a period of five years.

Air-Zone will repair or replace the unit at our cost if a defect is determined to be from the manufacturing process.

This warranty does not cover damage caused by misuse by owner. Failure to perform proper maintenance and cleaning of the unit may void the warranty.

The ozone elements are covered for 6 months.

If the filters are not changed, or the unit is placed in a dirty or very smoky environment their life span can be severely shortened. Do not place the ozone generator on the floor.

The warranty does not cover replacement filters.

Shipping of the unit for service, in both directions, is the customer's responsibility.

Any unit sent to us with postage due will be returned to the user.

Be sure the unit is well packed and insured. The internal boxes that come with the unit are NOT strong enough to ship the unit in.

Repairs will only be performed if accompanied by a signed Repair Claim Form. Repair Claim Forms can be obtained from us by phone or email.

Air-Zone is not responsible for any damages caused by the use or misuse of this unit.

Technical Specifications [XT-400](#):

Rated Ozone Output Per Hour: Fully variable from 13 mg/hr to 400 mg/hr.

**ACTUAL OZONE OUTPUT: 445 mg/hr** (ozone output verified by [SGS](#))

Burst Timer: 2, 5, 10, 20, 25, 30, 40, 50, or 60 seconds per minute (continuous)

Generation Method: Corona Discharge, US Patented Xetin ozone

Ozone Air Flow Rate: 37 CFM with a quiet precision ball bearing fan

Noise Level: 45 dB - 49 dB

Electrical Source: AC 110V-120V, 60 Hz

Electrical Consumption: 0.09 Amp, 10 Watts

Dimensions: 11.38" ( L ) X 4.24" ( W ) X 4.65" ( H ).

Weight - 4 lb.

Technical Specifications [XT-800](#):

Rated Ozone Output Per Hour: Fully variable from 13 mg/hr to 800 mg/hr.

**ACTUAL OZONE OUTPUT: 890 mg/hr** (ozone output verified by [SGS](#))

Burst Timer: 2, 5, 10, 20, 25, 30, 40, 50, or 60 seconds per minute (continuous)

Generation Method: Corona Discharge, US Patented Xetin ozone

Ozone Air Flow Rate: 37 CFM with a quiet precision ball bearing fan

Noise Level: 45 dB - 49 dB

Electrical Source: AC 110V-120V, 60 Hz

Electrical Consumption: 0.09 Amp, 10 Watts

Dimensions: 11.38" ( L ) X 4.24" ( W ) X 4.65" ( H ).

Weight - 4 lb.

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