



**Zentox Pure Air**  
by  
**Photox™**

Operations and Maintenance  
Manual

for

**Model 200**

***Advanced Indoor Air Purification  
System***

Please read and follow all instructions prior to operation  
of the unit.



# ZENTOX

PURE AIR

This air cleaner complies  
with the federal ozone  
emissions limit.  
**ARB CERTIFIED**



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Zentox Corporation cannot be held responsible for any accidents or injuries as a result of misuse or abuse of the equipment covered by this manual.

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Zentox Corporation in Virginia manufactures the Zentox Pure Air purification system by Photox™.

The Photox™ unit is covered by U.S. Patents No. 5,766,455 and No. 5,834,069; Canadian Patents No. 2253706 and No. 2253707 as well as patents in the U.K., and Germany.



## **I. THEORY OF OPERATION**

The Zentox Pure Air system 200 unit by Photox™ can destroy organic compounds in the air according to independent laboratory testing. The Zentox Pure Air purification system by Photox™ treats indoor air with a proprietary process that utilizes UV light and a unique catalyst.

Zentox Pure Air is effective for the reduction of organic compounds (VOC). Zentox Pure Air will effectively remove normal levels of a variety of hazardous and objectionable airborne contaminants including but not limited to viruses, bacteria, mold spores, ammonia, cleaning solvents, paint odor, hydrogen sulfide, urine and fecal odors, cooking odors, carbon monoxide, and formaldehyde.

**The Zentox Pure Air Advanced Air Purification System is not intended to remediate existing active mold growth or abnormally high levels of chemical pollutants. Sudden accumulation of pollutants caused by fire or the unventilated use of volatile chemicals will not be reduced immediately. Sudden accumulation of pollutants should be alleviated by opening doors and windows to provide immediate ventilation. Sources of abnormal levels of pollutants should be remediated. The Zentox Pure Air Advanced Purification System is not intended to remove Radon.**

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**NOTE**

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- Sources of abnormal levels of pollutants should be remediated. This unit is not intended to remove Radon.

## **II. DESCRIPTION**

The Zentox Pure Air 200 unit consists of one Catalytic Reaction Module (CRM), which acts as active surfaces through which the air being treated passes and undergoes the PHOTOX process with UV activation.

The CRM consists of a high airflow (low pressure drop) glass fiber media coated with a catalyst to oxidize VOCs.

The design is such that all air passes through the CRM with no undesirable short-circuiting or “bypassing” of the catalytic surface.

The Zentox Pure Air 200 is equipped with one 18 watt, UVA lamp. Air is circulated through the unit by means of a variable speed fan that is capable of moving up to 100 cubic feet per minute (CFM). Air is drawn into the unit, then moves into the reaction zone where it resides long enough for the Zentox Pure Air process to occur. The

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treated air is then discharged out the top of the unit. This design facilitates effective air circulation in the room and accomplishes a complete turnover of the room air every 23 minutes in a 15ft X 15ft X 10ft room. For typical usage, Zentox Pure Air Systems will provide coverage for areas up to 1,200 square feet.

The unit has only one moving part - a fan to draw in the air to be treated and re-circulated in the room. The unit consumes very little power and can be safely operated continuously when used according to this manual.



### **III. SPECIFICATIONS**

POWER REQUIREMENTS	110-120 volts AC, 60 Hz
AIR MOVEMENT	Approximately 100 cfm @ high speed

### **IV. OPERATION**

- A. Remove the unit from its packing box. Ensure all packing materials are removed from the louvers to insure correct airflow.
- B. The UV lamp for the unit is shipped with the unit but is not installed. The UV lamp must be properly installed prior to operation. Follow the installation instructions on pages 12 – 18 in this manual. (Sections B – G)
- C. Place the unit in a dry, out of the way area. Make sure that there is a minimum of six (6) inches of clearance around the unit to allow for a proper airflow. For best results, it is recommended that the unit not be placed directly on the floor.
- D. Set On/Off Switch in the “OFF” position.
- E. Insert power cord into power receptacle. Ensure there is power to the outlet.
- F. Turn the knob on the bottom of the unit in a clockwise direction until the unit “clicks” on. This will turn on the lamp and the fan to its maximum speed. (The unit has a variable speed fan. Unlike most variable switches, the “HIGH” position is to the left when knob is first turned, and the airflow and sound



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level is reduced by continuing to turn the knob in a clockwise direction.) There should be air movement through the unit. Airflow can be verified by detecting a slight breeze out the top of the unit. If air flow is not detected, turn off unit and make sure there is a power connection.



**CAUTION /  
ATTENTION**

For dry locations only

Pour emplacements secs tseulement



**NOTE**

The unit is for indoor use only and is designed to be operated in an enclosed environment. It will not be effective in an outdoor environment.