



# New Generation of Indoor Air Cleaning System

## D2000 Air Purifier

Clean Your Indoor Air by

**Photo Catalytic Oxidation and HEPA  
Filter**



### ***Specifications***

Dimensions (CM) -----	54"W X46"H X20"D
Weight-----	20 Pounds
Maximum Air Volume-----	265 CFM
UV Lamp-----	254 Nanometers (Germicidal)
Line Voltage-----	120V/60HZ
Maximum WATTS-----	85WATTS
Maximum Amperes-----	1 Ampere
Blower-----	Forward-curved Motorized Impeller



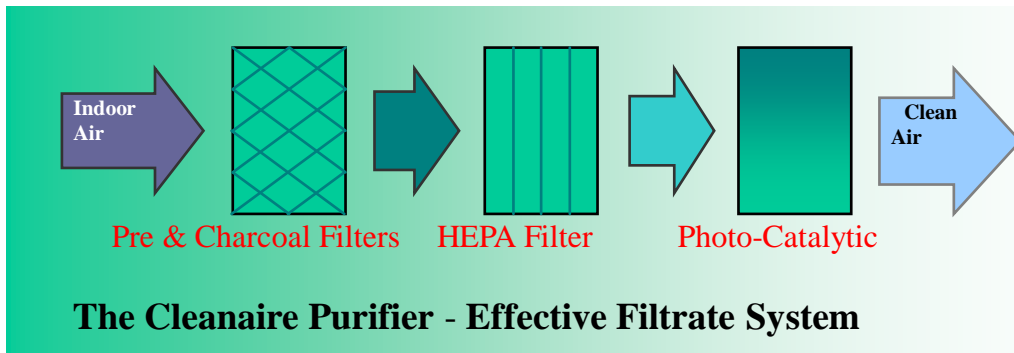
[www.AirPurifier88.com](http://www.AirPurifier88.com)

MERIDIAN BUSINESS TECHNOLOGY, INC.  
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## Principle & Technology

*Cleanaire is the new generation for an effective indoor air cleaning system combining technologies of an effective filtrate system and photocatalytic oxidation*

**Three stages of filtration to remove all allergenic particulates, kill bacteria & viruses, destroy Volatile Organic Compounds (VOC) from the air**



95% removed

**Pre Filter** removes particles from the air larger than 5.0u (microns), it also helps to extend the life of the HEPA filter.

**Charcoal Filter** absorbs toxic gas, organic hydrocarbons, exhaust fumes, formaldehyde, cleaning chemicals, low level ozone, unpleasant odors, and paint solvents. This is a primary filter system to remove the VOCs.



99.99% killed

**High Efficiency Particulate Air (HEPA) Filter** removes Allergens - A hospital grade HEPA filter removes allergens so small that they can only be seen with a microscope. Pollen, mold, fungal spores, dust mites, cockroach dust, tobacco smoke and bacteria are but a few examples.



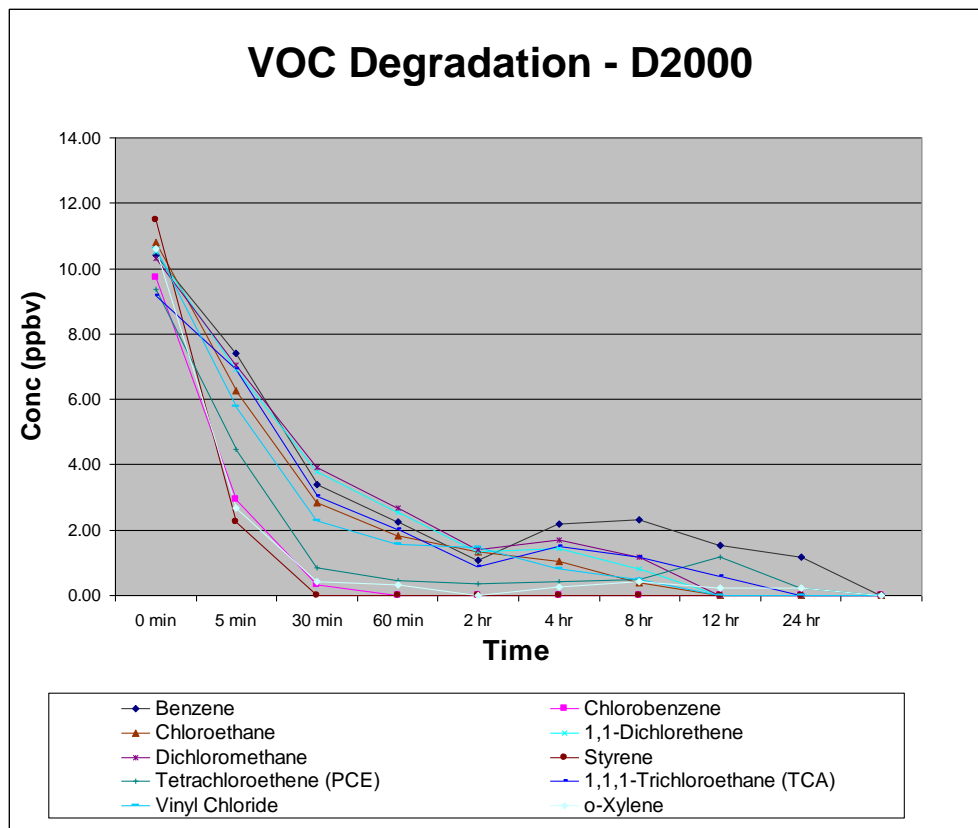
95% destroyed

**Photo-Catalytic Oxidation (PCO)** is the most advanced technology in air purification. The purifiers draw air into the photocatalytic chamber to be purified. The photocatalytic chamber consists of a high intensity UV-C ultraviolet bulb (254nm) and a Titanium Dioxide catalyst. When exposed to ultraviolet light, the photocatalyst becomes highly reactive and attacks the chemical bonds of the bio-aerosol pollutants, converting the toxic compounds into benign constituents, carbon dioxide (CO<sub>2</sub>) and water (H<sub>2</sub>O).

The Best Way to Clean your Air

# Performance Test

## 24 Hour Performance Test in Environmental Chamber



VOC	1 hr	24 hr	VOC	1 hr	24 hr
Benzene	78.4%	88.7%	Dichloromethane	74.1%	100.0%
Bromomethane	77.6%	100.0%	1,2-Dichloropropane	89.5%	97.4%
Carbon Tetrachloride	76.8%	97.9%	cis-1,3-Dichloropropene	94.7%	100.0%
Chlorobenzene	100.0%	100.0%	trans-1,3-Dichloropropene	98.1%	100.0%
Chloroethane	83.0%	100.0%	Ethylbenzene	96.4%	96.6%
Chloroform	77.1%	96.0%	Hexachlorobutadiene	100.0%	100.0%
Chloromethane	85.0%	100.0%	Styrene	100.0%	100.0%
1,2-Dibromoethane	96.7%	100.0%	1,1,2,2-Tetrachloroethane	100.0%	100.0%
1,2-Dichlorobenzene	100.0%	100.0%	Tetrachloroethene (PCE)	95.0%	97.4%
1,3-Dichlorobenzene	100.0%	100.0%	1,1,1-Trichloroethane (TCA)	78.1%	100.0%
1,4-Dichlorobenzene	100.0%	100.0%	1,1,2-Trichloroethane	94.8%	100.0%
1,1-Dichloroethane	74.7%	100.0%	1,3,5-TMB/4-Ethyltoluene	100.0%	100.0%
1,1-Dichloroethene	75.6%	100.0%	1,2,4-Trimethylbenzene	97.9%	100.0%
Dichlorodifluoromethane	82.7%	100.0%	1,2,4-Trichlorobenzene	100.0%	100.0%
Dichlorotetrafluoroethane	79.0%	100.0%	Trichlorofluoromethane	71.2%	100.0%
1,2-Dichloroethane (EDC)	62.3%	86.1%	Vinyl Chloride	85.3%	100.0%
cis-1,2-Dichloroethene	81.9%	100.0%	o-Xylene	97.0%	100.0%

Professionally Tested

## ***Airborne Particle Count Result***

Time	Count					
	0.3 micron	0.5 micron	0.7 micron	1.0 micron	2.0 micron	5.0 micron
0 min	12345	3723	1881	1194	514	47
5 min	346	44	30	28	20	6
15 min	63	10	4	3	2	0
30 min	60	6	1	1	0	0
60 min	82	7	2	1	1	1
2 hrs	80	11	2	1	1	0
4 hrs	80	11	5	3	1	0
8 hrs	81	11	4	4	0	0
12 hrs	69	3	0	0	0	0
24 hrs	65	5	3	0	0	0

## ***Cleaning Air Technologies Comparison***

	Virus, Smog, Insecticide Dust  Size 0.02- 0.25µm	Bacteria, Tobacco Smoke, House Dust  Size 0.1-10 µm	Mold, Pollen, Spores, Animal Dander ,Skin Flakes Size 1.0 – 100 µm	Air Toxic Volatile Organic Compounds (VOCs)	Negative affect to Human Health
Regular Filter (Pre filter)	None	None	Poor	None	No
True HEPA Filter	Excellent	Excellent	Excellent	None	No
Charcoal Filter	No	No	Poor	Fair	No
Adsorbent Filters	No	No	Poor	Fair	No
Electrostatic Precipitator	Fair	Fair	Fair	Poor	Possible Ozone Problem
Photo Catalytic Oxidation	No	No	No	Excellent	No
Negative Ion and Ozone Generator	Poor	Poor	Poor	Poor	Possible Ozone Problem
<b>Cleanaire Combined Charcoal Filter, True HEPA Filter and PCO Technologies</b>					
Combined HEPA ,Charcoal Filter and PCO Technologies	Excellent	Excellent	Excellent	Excellent	No

**Powerful but Peaceful**