

ZANDAIR™ 100C CLEAN AIR

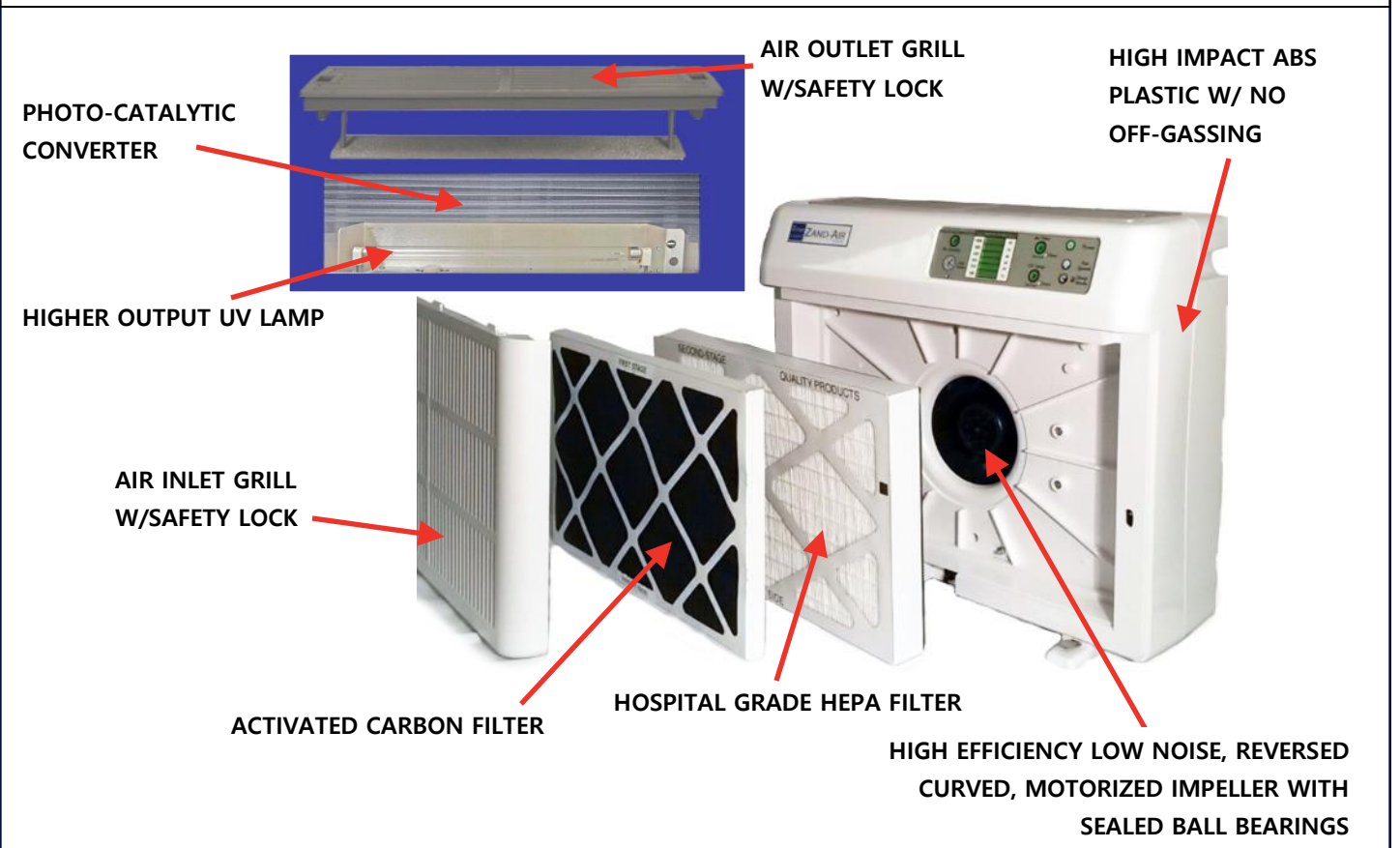
Air Purification Systems Photocatalytic Air Purification

"As technology has advanced, the necessity to filter air has become even more important"

No matter how well you maintain your laboratory, your work area can be filled with air pollutants, dust particles, mold spores, dander, pollen, dust mites, cleaning chemicals, volatile organic compounds (VOCs), chemically active compounds (CACs), aldehydes, carcinogenic materials, carbon monoxide, viruses and bacteria.

Add to these culprits the chemical irritants lurking about... in carpets from the front office, behind the walls, from off-gassing in plastic materials, in the cleansers and waxes used to keep your work surfaces clean. All these have a direct influence on your ambient air.

The key to effective air filtration of damaging volatile organic compounds is in the Photocatalytic Oxidation Chamber. The chemical compounds become highly reactive when exposed to a specific wavelength of ultraviolet light. The photocatalyst attracts pollutants and converts them into benign compounds and finally as water (H₂O) and carbon dioxide (CO₂).



The **ZANDAIR™ 100C CLEAN AIR** Air Filtration Purification System significantly reduces:

- | | | |
|-----------------------------|---------------------------|-------------------------------|
| • Mold | • Solvents | • Alcohols |
| • Fungus | • Ozone & Smog | • Ammonia |
| • Cleaning Chemicals | • Hair Spray | • Chlorinated Solvents |
| • Nitrous Oxide | • Perfume | • Carbon Monoxide |

• *Over 50 other chemicals were significantly decomposed*

STEP ONE: Adsorbs toxic chemicals and gases

FRONT POSITION Activated Carbon Filter with specially formulated gas adsorption media (including zeolite and potassium permanganate) adsorbs automobile exhaust fumes, organic hydrocarbons, formaldehyde from particle boards used in construction, paint, solvents, chlorine, cleaning chemicals, volatile organic compounds (VOCs), chemically active compounds (CACs) and other harmful agents

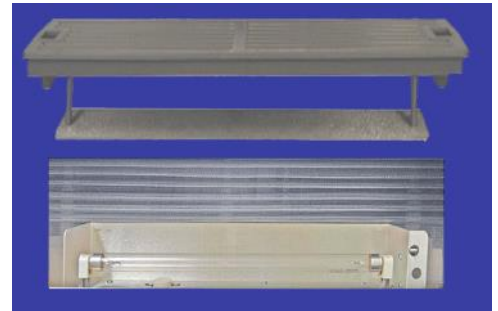


STEP TWO: Back-Position Hospital Grade HEPA Filter removes micro-particles

is individually tested by the supplier and certified to remove particles of 0.3 µm w/not less than 99.97% efficiency by an approved aerosol. Micro particles Examples: pollen, mold, fungal spores, dust mites, bacteria

STEP THREE: Photo-Catalytic-Oxidation destroys toxic chemicals, eliminates odors

and converts malign toxic compounds (even carbon monoxide and nitrous oxide) into benign constituents such as H₂O and CO₂. The catalyst does not wear out or lose its effectiveness as a result of its actions.

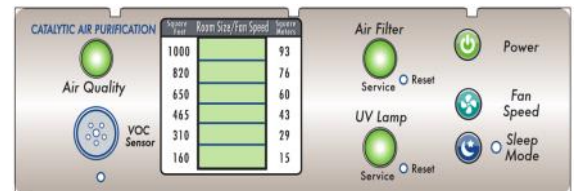


STEP FOUR: Ultraviolet Light

attacks the molecular structure of viruses and bacteria, which are too small to be filtered out by the HEPA filter, thus rendering them harmless. Ultraviolet light converts VOCs and CACs into H₂O and CO₂. Ultraviolet light technology combined with Photo-Catalytic-oxidation is an important and unique feature of this air purification / filtration system.

ELECTRONIC SENSORS monitor air quality and automatically increase the performance of air purification system to compensate for periods of unusually high chemical activity and increased activity.

Warning lights alert staff to the presence of chemicals and fumes well before they reach dangerous levels or become detectable to the human senses. In the absence of high activity, the air purification system can switch into a sleep mode and "wakes up" as soon as it detects activity.



ZANDAIR™ 100C CLEAN AIR System Technical Specifications

- Dimensions: 21.5"w X 18"h X 8"d (55cm X 46cm X 20cm)
- Weight: 23 lbs. (10.43 kg)
- Max Air Flow: 265 CFM /7.5 m³ per minute
- Max Watts: 110 watts
- Voltage: 120v - 60hz /220v - 50hz
- Blower: Reversed - curved motorized impeller
- Catalyst: Metal oxides
- U.V. Range: 254 nm (produces no ozone)
- Particle Filter: 0.3 micron HEPA
- Gas Adsorption: Activated carbon media
- Application: 1,000 Cubic feet max./ 29 cubic meters
- Service: U.V. Lamps -1 year, Filters - 6 months
- Warranty: 5 year limited warranty subject to provisions (excluding light and filters)