Bio-Cascade, Inc.
Clean Air and Water Systems

CAP News

Bio-Cascade, Inc
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Bio-hygienics:
Compact and portable treatment plants that use biological oxidation to clean air or water in real time.

CAP™ Clean Air Plants

- **Winner of Technology Merit Award**. The CAP is recognized by the Environmental Business Journal for innovative biological treatment of indoor air quality.
- CAPs employ biocatalysts that convert organic pollution like carbon monoxide, ozone, benzene, and other hydrocarbons to water and carbon dioxide.
- CAPs are stand-alone, portable units, which can be placed anywhere in areas of high pollution.
- Odors and air contaminants, produced by chemical vapors, toxic gases, and mold are eliminated.
- CAPs can be used to surpass OSHA standards for air in the workplace.
- Used in the workplace, CAPs lower health risks, increase comfort and productivity, reduce exposure to liability, and encourage good management practices.
- CAPs also remove cigarette smoke, pet dander, pollen, dust mites, mold, and other allergens.
- CAPs can even oxidize and destroy airborne vacteria and viruses, as well as sudden influxes of chemicals and biological contaminants.
- Turn off your present treatment systems and save thousands with CAPs.

FIRE DEPARTMENT APPROVES CAP TECHNOLOGY

CAPs Eliminate Fire Hazard Associated with Nail Salon Solvents and Save Owners Money

If you have ever had your nails or hair styled at a salon, you know how offensive the odors can be. So offensive, in fact, that you know breathing them can't possibly be good for you. And just imagine the professionals working all day in the salons. Multiple hours of exposure to chemicals such as liquid monomer, ethyl methacrylate, ethyl acetate, butyl acetate, and 2-propanone (all contained in nail products) can cause headaches, lightheadedness, dizziness, nausea, and can affect your central nervous system.

But when the Bonita Springs Fire Control District cited several Florida hair and nail salons for inadequate ventilation systems and improper storage of flammable chemicals, they were looking beyond the immediate health aspects of salon-goers and operators. Potentially flammable and explosive situations arise when nail products are stored or used improperly.

When salon owners were faced with possible bills of up to $10,000 to install adequate ventilation and air conditioning systems, however, they demanded an alternative.

That's when the Bonita Springs Fire District invited Air & Water Solutions, Inc., a small environmental biotechnology company, to demonstrate their CAP™ Clean Air Plant to destroy chemical and monomer vapors used in nail and other products.

The CAP™ Clean Air Plant represents a major advancement in the treatment of indoor air pollution. CAPs go beyond conventional technology for cleaning air. CAPs destroy gases and volatile organic compounds (VOCs) that can cause fire and health hazards. CAPs also eliminate odors.

Ventilation, the staid, conventional treatment for many odor and flammability problems, merely dilutes the hazard but leaves the existing chemical contaminants intact. CAPs actually destroy VOCs using biological oxidation, a natural process, which changes the chemical makeup of hazardous compounds and renders them harmless. And, CAPs are a fraction of the cost of ventilation systems.

Increased air exchanges can eliminate the energy efficiency for which a building is designed. Cool air is lost in the summer and heated air is lost in the winter, thus raising energy bills and consumption. CAPs are portable air treatment systems that can be placed anywhere where air quality is poor or pollution is high. Because CAPs clean the air from the inside, energy costs are decreased. Customers stay longer and employees enjoy a cleaner environment.

CAPs have been demonstrated to reduce the flammability and explosivity of liquid monomers, acetone, non-acetone, nail lacquer thinner, nail adhesive, and nail lacquer remover.

For more information on the CAP™ Clean Air Plant, call, Bio-Cascade at 800-983-2420 or on the web at www.BioCascade.net

The CAP™ Clean Air Plant
Model CAP-90