



CASE STUDY



Industrial

Nuisance odors eliminated

CAPs Assist Food Processing Industry

The food processing industry employs oleoresins, aroma chemicals, and other ingredients to enhance flavor, aroma, and color natural raw products.

These concentrated liquids and extracts contain volatile components, which intensify the aroma. The intense aromas which may be wondering when consumed, can become rather obnoxious to workers immersed in their production on a today bases. Odors and odor issues began to become a problem throughout a flavor manufacturing facility located in central New Jersey. The facility first tryed a small CAP85 in their walk in cold room. Upon discovery of how effective the CAP85 was despite the cold, they next tested a unit to control odors in their reception area and offices. The CAP85 vitually eliminated all of the odor in non processing areas like offices, meeting rooms and worker's breakrooms. The facility then performed bacterial swab tests to be sure the CAP units were compatible with their production methods and found no problems. Next, tree CAP600 units were placed at various locations in the facility to demonstrate the feasibility of the technology to control extremely concentrated waste streams. A major trouble spot was in the tranfer area, where workers empty cooking vats of products. A CAP2500 was placed in the transfer area to create a clean air zone where workers can operate in comfort. Based on the success of the technology, the company placed additional units at other troubled spots. CAP Clean Air Plants are compact and portable biological oxidizers that are small enough to control indoor air quality in manufacturing facilities. Organic contaminants are destroyed by oxidation. Gases, fumes, solvents, smoke and odors are eliminated. The CAP's pioneering design allows for the creation of a Clean Air Zone, which is grounded and electrically neutral. Odors, which are carried on charged particles, are eliminated as they enter the clean zone. Because CAPs eliminate contaminants at the point where they are generated, there is no need to vent; they escape conventional venting systems. Eliminating odors at their source with a Clean Air Plant saves space, construction and energy costs, and avoids potential nuisance complaints.

CAPs in Europe are distributed by U-Earth biotechnologies. For more information visit us online at www.u-earth.eu.



CAP-2500 treats oleoresins and aroma chemicals at a flavor manufacturing process.

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 standalone, 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 bacteria and viruses, as well as sudden influxes of chemicals and biological contaminants.
 - Turn off your present treatment systems and save thousands with CAPs.
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