

Volatile Organic Compounds

released to the environment - a serious air pollution problem

MIAB provides plants that remove Volatile organic compounds (VOC's) from industrial environments. These contaminants are in the gaseous phase and are often environmental hazardous. By controlling these emissions at the plant, the general environment is improved and protected. Examples of VOC's include solvents from painting operations, printing, de-greasing and styrene from fiberglass operations. Some VOC's, such as benzene, toluene and xylene are suspected, or known to be toxic.



Miab FD - for a cleaner future!

Volatile organic compounds released to the environment are a serious air pollution problem. These chemicals react in the presence of sunlight with nitrogen oxides and carbon monoxide to form ozone. Nitrogen oxides and carbon monoxide are mainly emitted by automobiles, coal and natural gas fired boilers and industry.

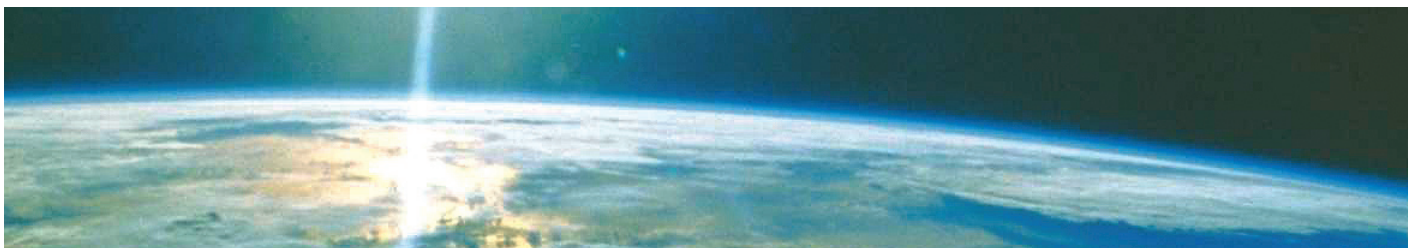
Air pollution is an international problem that has harmful effects on humans, animals, nature and property. Polluting emissions, such as VOC's and the resulting ozone can be carried by wind as far as 400-500 kilometres in one day and thus the negative influence is wide spread.

Some efforts made to limit emissions from traffic and energy producers may take years to achieve desired results. On the other hand, there are technologies available for controlling emissions from industrial operations, that provide a direct positive benefit to the environment..

Mölnbacka Industri AB of DEJE Sweden, MIAB, has developed VOC control systems that utilize activated carbon adsorbers to pre-concentrate the solvent vapors so they can be more efficiently incinerated as a highly concentrated stream utilizing a catalytic incinerator.

The MIAB patented technology concentrates the solvent vapors into a much smaller air stream, typically around 10% of the ventilation flow. This means the catalytic incinerator is much smaller since it is sized for the smaller air stream. With the MIAB system the solvent concentrated stream has sufficient heat value so additional energy is not needed for complete incineration.

MIAB has since the start 1989 delivered VOC control plants that are in operation in processes that include printing, painting of plastic parts, remediation of soil, polluted by chlorinated and fluorinated hydrocarbons and production of glass fiber reinforced plastic parts.



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