

ROTOR CONCENTRATOR

METHOD OF ABATEMENT

A rotor concentrator is a type of pollution control equipment that takes large volume streams with low Volatile Organic Compound (VOC) concentrations, and converts it into a highly concentrated low flow stream. A Rotor wheel is a temperature swing adsorption device designed to continuously remove VOCs from a low concentration, high volume air stream by adsorbing the VOCs onto a hydrophobic Zeolite media. After the VOCs have been collected, they are then released from the Rotor by a heated low volume air stream to be treated by the thermal oxidizer. By concentrating the VOCs into the low volume air stream, considerable energy savings, both electric and fuel gas, are achieved.

The Rotor cassettes wheels are mounted on a shaft with bearings and are rotated slowly in the air stream. As the Rotor turns, it passes through sealed sections, used for adsorption, desorption, and cooling.



ADVANTAGES

- Custom built, turnkey systems
- Easy to retrofit - Most retrofit packages see a financial return between 1 and 2 years through reduced operating costs.
- Allows for a smaller oxidizer, with a lower CAPEX
- Smaller footprint
- Design engineering, manufacturing, assembly, and testing all done in-house, at our Texas manufacturing facility.
- Converts large volume flow into a lower volume
- Our In-house produced control panels sets GCES apart!
- UL Rated
- Remote access for monitoring and controls
- Remote service support