

# Scrubbing System Controls EtO Emissions



The Clean Air Group's packed-tower scrubbing system uses a solution feed tank to effectively control emissions of ethylene oxide (EtO) at facilities. The system's design uses a counter-current packed tower with a bed that provides an extremely large amount of surface area for intimate contact between the contaminated gas and the scrubbing liquid. The counter-current flow (downward flowing liquid vs. upward flowing gas) produces optimum driving force for mass transfer of the EtO. As the contaminate gas travels through the system, it attracts less contaminated scrubbing liquid. This results in the lowest levels of contaminants remaining in the discharge gas. Other system design features include:

- The ability to account for heat generated due to EtO in the water.
- Solution feed tank that takes into account the fact that the hydrolysis of EtO into liquid EG creates a volumetric change in the scrubber solution.

[info@croll.com](mailto:info@croll.com) [1]

[www.croll.com](http://www.croll.com) [2]

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