











Case Study # 107

This Ohio manufacturing company refurbishes Teflon coated baking trays by removing the teflon coating in a high temperature furnace. The process not only generates high levels of Hydrofluoric Acid but also particulates in the 5 micron size range.

A Fluidized Bed Scrubber was utilized based on its exceptional ability to simultaneously absorb gaseous contaminants and remove fine dust and soot particulates without fouling. The Fluidized Bed Scrubber follows a high temperature adiabatic quenching system that cools the process gases from 1500°F to near its saturation temperature. The scrubbers solids handling capabilities make it ideal for recycling slurries, minimizing wastewater and product recovery processes.

Particulate Removal from **Process Furnace Exhaust**



Application	Oxidation Furnace
Exhaust Volume	1600 ACFM
Exhaust Temperature	1500° F
Exhaust Pressure	8″W.C.
Contaminant	HF & Particulate
Removal Efficiency	>99%
Scrubbing Solution	Recycled NaOH
Materials of Construction	Hastelloy-C, FRP, & Polypropylene



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