

# DRY SCRUBBER

## METHOD OF ABATEMENT

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Dry scrubbers are primarily used to abate acidic gases, like those associated with acid rain. This is one of the most common pieces of equipment found in manufacturing plants, because of its ability to handle high temperature, highly acidic exhaust streams. A dry scrubber works by combining carefully chosen chemical reagents with the exhaust stream at incredibly high speeds, that react with or absorb the compounds in the stream. These chemicals react differently, depending on which compounds are being targeted; reactions either neutralize the dangerous VOCs, or absorb them into a different compound all-together. Once converted, the substance left over can then be disposed of or transported easily. Each type of scrubber media removes particles and compounds in a different way; some chemical reactions, while others use electrostatic adhesion.



## ADVANTAGES

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- Handles high temperature streams
- Versatile
- Capable of abating very acidic streams
- Spent media can be a source of revenue
- Smaller space requirements
- Can be retrofitted into current equipment (in some cases)
- Lower cost of purchase
- Able to neutralize highly corrosive gases
- Several customizable options, based on specific output and applications, often allowing for a reduction in cost.
- Eliminates as much or more than 99% of dangerous gases, which meets all EPA requirements for MACT, RACT, BACT, and LAER

