

## PACKED BED SCRUBBER

**APZEM** Packed bed Scrubber are custom designed to capture sub micron particulate matter, chemical fumes, odors, and other water / chemically soluble fumes and Vapors generated in industrial process. All wet scrubber works on the principle of absorption technology with high efficiency and maintenance-free acid gas absorption system proven by successful installations.

### OPERATION

Pollutant laden gases enter at the bottom of the packed tower and rise upward, making contact with the scrubbing liquid draining down through the packed column. Since the pollutant concentration decreases as the gas rises, there is constantly fresher solvent available for contact, resulting in an efficient removal of contaminants. Finally, the fine moisture droplets, still suspended in the cleaned gas stream, are removed by a mist eliminator.

Scrub liquid from the eliminator is collected in an integral reservoir and recycled to the tower. Makeup liquid is constantly introduced, and reagent is added on demand using a dosing pump controlled by a pH monitor.

### MATERIALS OF CONSTRUCTION

- > Stainless steel & mild steel
- > FRP & FRP-lined mild steel
- > PVC & CPVC
- > Polypropylene
- > Polyethylene

### APPLICATION

- > Cement factory
- > Chemical industries
- > Pharmaceutical Industries
- > Petrochemical industries
- > Municipal waste treatment plant
- > Effluent Treatment Facilities
- > Fertilizer production and processing industries



### ADVANTAGE

- > Upto 99 % efficiencies can be achieved in many applications. For difficult conditions the same can be customised.
- > The pressure drop across the scrubber is lowest of the class.
- > Low recirculation solution and make up rates required.
- > Rugged construction, thick continuously reinforced corners, well designed packing support plates ensure negligible or low maintenance costs.