



AIR POLLUTION CONTROL SYSTEM GAS WET SCRUBBER (GWS)



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STC designs and supplies a full range of equipment, services and engineering solutions for the Air Pollution Control, applicable in many industrial sectors like BATTERY MANUFACTURING , BATTERY RECYCLING, LEAD PRODUCTION, NON FERROUS METAL, FOOD PROCESSING, CHEMICAL AND PETROCHEMICAL, WASTE AND WASTE WATER and many others.



STC wet scrubbers are available in many configurations: horizontal, vertical tower, single, double or triple stages, venturi scrubber, fixed bed, floating bed.

The working principle is based on the absorption of the pollutants in water where the air emission is counter-washed by a water recirculating system through spraying nozzles. The scrubbers are partially filled with packing media (static bed or floating bed are available) made of proper material (Rashing rings, saddle, balls, Pall rings, Tellerette, or similar) to facilitate the absorption reaction by increasing the contact surface between the washing water and the contaminated gas.

Depending on the application, different sorbents can be added (also in combination using two- or three-stages scrubber) to the circulating water to facilitate the absorption of the unwanted substances: Lime, Caustic Soda, Sulphuric Acid, Hydrogen Peroxide, Ozone and other chemicals are used to specifically target certain compounds.

A final demister will remove the mist and any drop of water from the emission.

- Application in many industrial sectors for the abatement of particulate and hydro-soluble substances like H_2SO_4 , H_2S , HCN , HF , SO_2 , HCl , NH_3 , Odours and other toxic components.
- Removal efficiency up to 99%
- Flowrate from 5.000 up to 100.000 Nmc/h (higher capacity available upon request)
- Construction made in PP, PVC, HDPE, FRP and AISI 304/316

Piping, instrumentation and electric local panel with PLC to control the process are included as well as fan, ductworks, dampeners, stack, chemical dosing system, supporting structures and service platforms.

The design parameters meet the most strict environmental regulation.