

Wet Flue Gas Desulfurization Scrubbers

(pH/ ORP)

Coal fired power plants use flue gas desulfurization scrubbers to remove the SO_2 before it is released up the stack. The slurry pH in the absorber is one of the main control parameters of the scrubber. Typically kept in a range of 5.7 to 6.8 pH, it will not effectively remove SO_2 from the flue gas if the slurry pH drops below 5 pH. Similarly, if the pH rises above 7.5, CaCO₃ and CaCO₄ scale can plug nozzles, mist eliminators, and other hardware.

Maintaining good pH balance can lead to reduced maintenance cost, reduction in reagent chemical usage, decreased wear on pumps and valves, and decreased chemical cost.

Challenges

Within the FGD scrubber process, problems include: high sulfides, heavy metals, abrasion and coating, and elevated temperatures.



<u>1</u> рн президение 0-14 р Э.

If the process is isolated, an in-line electrode such as the Y-410B-F6 or V-19DB-F6 Series is recommended.



If the process is not isolated, a retractable such as the MK7 or Live Tap model is recommended.

Specifications

Body material	Ryton	Kynar	Stainless Steel
pH Range	0-14	0-14	0-14
Temperature Range	0-130°C	0-130°C	0-130°C
Pressure Range	0-150 PSI @ 25°C		

For more information, contact your AlpHa/Van London Co. representative or distributor.