

Application story



Ammonium Sulphide for Flue Gas Desulphurisation

Location	Korea	Hydra-Cell model	G03EXTJCCTTA
Type of application	Metering Ammonium Sulphide	Flow rate	5 L/min (1.32 gpm)
Liquid	Ammonium Sulphide	Pressure	7 bar (100 psi)
Application details	GS Energy in Korea, operates a number of power generation plants through its GS Power subsidiary, supplying over 300,000 households in high growth cities in the Gyeonggi Province. The installed complex boiler system was suffering from a build-up of Potassium Chloride (KCL), which over time, corrodes the pipework which necessitates costly repairs and more importantly downtime for the plant. Two recently purchased Hydra-Cell G03 pumps, are used to pump Ammonium Sulphide @ 40c into the boiler(s) to prevent this build-up by the process of catalysis – The acceleration of a chemical reaction by a catalyst. This Hydra-Cell solution offers precise metering of the chemical, along with remote control of the pump flow rate, eliminating the use of local, unreliable stroke adjustment found on the previously used traditional metering pumps. Currently, the Korean government is currently attempting to legislate on the permitted limit(s) of Potassium Chloride and once this law is enacted, these systems will become mandatory in all Korean power plants.		
Advantages of Hydra-Cell pump on this application	• Guaranteed metering accuracy, without the need for a pulsation dampener. • Compact design allows for small footprint installation.		

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