



Chemco Systems, LP.

HYDRATED LIME
SYSTEMS



MARKETS SERVED

Municipal Water and Wastewater
Industrial Water and Wastewater
Air Pollution
Mining & Power

CUSTOM DESIGN

CHEMCO custom designs and fabricates each system to satisfy the process feed rate, desired concentration, and available space requirements.

Chemco Hydrated Lime Systems can feed dry hydrated lime by way of pneumatic transfer or in wet slurry form by pumping the slurry and can be factory assembled as either skirted or leg support silos. Every hydrated lime system is specifically designed to accommodate any particular process. Every process is unique, as are our silos. For that reason, our engineering team will work closely with the design engineer and customer to ensure that all subsystems and components are sized to meet the customer's expectations of functionality while delivery a high-quality, dependable treatment system. Hydrated Lime Systems provide a more cost-effective solution compared to a lime slaking system when evaluating capital costs as the equipment is simpler and does not need to be designed to contain the exothermic reaction that takes place when slaking pebble lime.



Chemco Hydrated Lime Systems are able to produce a variance of lime slurry concentrations, from 5% concentration up to a high density concentration of slurry greater than 35%, to meet the application requirements. Depending on the accuracy that is required at a project, a Hydrated Lime System or High Density system can be configured with either a Volumetric or Loss-in-Weight Screw Feeder, which are able to meter material with a precision of +/-2.0% and +/-0.5%, respectively. All components/equipment are fully assembled, installed, piped, wired, and integrated through a Chemco custom control panel, completely assembled and installed within the silo with PLC, motor starters, and VFD's. Chemco tests all mechanical and electrical equipment at our facility prior to shipment to ensure a seamless start-up occurs once the system arrives onsite.

STANDARD SYSTEM COMPONENTS

- Storage Silo - Fully Skirted or Leg-Supported
- Pneumatic silo fill-pipe and NEMA 4X Operator Station
- Product level monitoring devices. Both continuous level and/or point level indication are available.
- Roof mounted dust collector and associated valves.
- Storage Silo Bin Activator or Vibrator
- Volumetric or LIW Screw Feeder with inverter-duty drive motor and variable frequency drive.
- All piping, valving, and instrumentation.

- Slurry-make down/storage tank with level devices, mixer, dust & vapor removal system, and nozzles.
- Feed pumps as specified.
- Local system control panel complete with programmable logic controller (PLC) including pre-programmed system logic.
- All systems are factory tested to the greatest possible extent before leaving the factory.
- Silo systems are provided with ventilation fans, heaters and lighting. Silo skirted interior is insulated.