

LIME SLAKING SYSTEM



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.



LIME SLAKING SYSTEM

Chemco's Lime Slaking System utilizes pebble lime's higher neutralization capacity based on tonnage to provide storage, dry feed, slaking of pebble lime, and the delivery of the resultant hydrated lime slurry to the process point. This system employs Chemo's proven temperature control operating philosophy to deliver consistent, high quality hydrated lime without the need for maintenance-reliant weighing devices. Temperature control of the slaking process has proven, over our 40 years of industry experience, to be the most reliable method of ensuring consistent, small hydrated lime particle size, which greatly increases system efficiency and reduces operational and material costs. Our team will work closely with the design engineer and customer to determine which lime slaker best accommodates their application and to provide a reliable system that is engineered for functionality and operability.



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 screw feeder or non-flood gravimetric weigh belt feeder with inverter-duty drive motor and variable frequency drive.
- Chemco detention slurry slaker or batch slaker



An inherent component of handling & slaking pebble lime is the necessity to remove the inert grit material from the lime slurry that is a by-product of the lime slaking process. Chemco's grit separation stage is engineered to separate and remove grit from the lime slurry prior to it being pumped to process. Grit separation prio to pumping eliminates excessive grit loop pumps and associated hardware, which significantly reduces capital costs. This practice also eliminates the wear and tear that occurs from recycling grit through the primary feed lines and pumps, further cutting down on maintenance and equipment replacement costs over time. The specific grit separation process to be used on a system is determined by our engineering team when finalizing the design with the customer to meet their operational needs and project specifications.

- Slurry-make down/storage tank with level devices, mixer, dust & vapor removal system, and nozzles.
- Feed pumps as specified.
- Water control panel with necessary valving & piping.
- Local system control panel complete with programmable logic controller (PLC) including pre-programmed system logic.
- Silo systems are provided with ventilation fans, heaters and lighting. Silo skirted interior is insulated.

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