



### MARKETS SERVED

Municipal Water and Wastewater  
Industrial Water and Wastewater

### CUSTOM DESIGN

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

Chemco's Powdered Activated Carbon (PAC) systems are primarily used by water treatment plants on either a full time basis or as needed for taste and odor control or removal of organic chemicals. PAC can be fed as a powder using dry feed equipment or as a slurry. Dry feed systems are typically used for smaller dosages, which is an ideal application for Chemco's Bulk Bag Un-Loader system, while slurry systems are normally used when PAC is frequently added and the required dosages are high.

PAC systems can also be utilized in industrial applications to remove heavy metals in flue gas applications. This is typically done by utilizing loss-in-weight dosing systems and pneumatic conveying carbon delivery equipment and controls.



PAC slurry systems can be arranged using two different type of wetting and conveying methods. The first is the use of a slurry mixing tank with metering pumps. The alternative option is to feed the dry PAC into a wetting cone that discharges to the suction connection on a slurry eductor. This eductor, using high motive water pressure, pulls in the PAC slurry through the eductor suction and conveys it to the point of application. The selection of equipment is dependent on the project specified feed rates and concentration requirements. Our engineering team will work closely with the customer to understand their project's specific needs to ensure that we meet their expectations for functionality & operability.

### Powder Activated Carbon System Components

- Storage Silo (Designed to customer specifications)
- Pneumatic silo-fill pipe
- Dry product level monitoring devices
- Roof-mounted dust collector
- Air Fluidization System (Air Compressor, Dryer, instrumentation and controls)
- Volumetric screw feeder
- Loss-in-weight feeder and controls
- Pneumatic PAC transfer system
- Slurry make-down/storage tank
- Feed Pumps or eductors as specified
- All piping, valves, and instrumentation
- Local system control panel complete with PLC

