

CARBON ADSORPTION SYSTEMS

WE CLEAN THE WORLD'S AIR AND WATER

ACTIVATED CARBON, ZEOLITE, AND ACTIVATED ALUMINA TECHNOLOGY

KCH Engineered Systems designs and manufacturers a Carbon Adsorption System which is among one of the most effective in removing total odors and VOCs from municipal and industrial processes. Designed for continuous use, and built to withstand the elements, our Activated Carbon, Zeolite, or Activated Alumina based Adsorption Systems can be used exclusively or in conjunction with other air pollution control technologies such as, Chemical Scrubbers or Biotrickling Filters. Where certain applications require adsorption in combination with Chemisorption, KCH offers a chemical impregnated adsorption media to achieve ultimate performance.

PRODUCT INFORMATION

The KCH Carbon Adsorption System is comprised of a vertical, cylindrical vessel with a domed or conical top. They are constructed in our facility from POLYLAST®, POLYSTRONG®, or other corrosion resistant materials. KCH Vessels feature exceptional corrosion resistance and UV-resistance, making them ideal for long-term intended service life and outdoor installations, as required.

The KCH Engineered Systems Carbon Adsorption System can be fitted with all controls, parts and accessories necessary to monitor ongoing processing. In its entirety, the system can include the following:

- Adsorption Vessels
- Activated Carbon Media
- Blended Carbon Media
- Catalytic Carbon Media
- Chemical Impregnated Media
- Activated Alumina Media
- Zeolite Based Media
- Fan and Motor Assembly
- Interconnecting Ducting Piping
- Platforms or Ladders
- Differential Pressure Indication
- Grounding Rods
- UL Control Panels
- Media Sample Probes
- Media Bed Removal Nets
- Water Washing Headers
- Dampers
- Single or Multi Bed Vessels



APPLICATIONS

- Typically Lower (ppm) Levels of Contaminates
- Pump/Lift Stations
- Wastewater Treatment Plants
- Polishing Stage After Wet Scrubber or Biotrickling Filter
- Use When Total Odor Removal is Needed
- Corrosion Testing Labs

BENEFITS

- Low Capital Cost
- Low Maintenance Cost
- No On-Site Chemical Storage Required.
- 100% Corrosion Resistant Construction
- Wide Range of Medias Available For Hydrogen Sulfide (H₂S), VOC, Odor, and Hazardous Air Pollutant Adsorption.

