

ACTIVATED CARBON FILTER



Process application:

Activated carbon filters are employed in the process of removing organic compounds and extracting free chlorine from water, thereby making the water suitable for discharge or use in manufacturing processes.

Coconut shells and coal (anthracite or bituminous) are both organic sources of activated carbon. Carbon forms when an organic source is burned in an environment without oxygen. This process leaves only about 30% of the organic mass intact, driving off heavy organic molecules. Prior to being used for water treatment, the organic mass then be "activated." The process of activation opens up the carbon's massive number of pores and further drives off unwanted molecules. The open pores are allowing the carbon to capture contaminants, known as "adsorption".

Construction:

It consists of vessel either vertical or horizontal, with frontal piping & valving, a top distribution grid to distribute the incoming water uniformly throughout surface area & under drain system to collect the under drain filtered water.

