

Carbon Block Buyer's Guide

Developing Specifications and Selecting a Supplier

Solid carbon blocks, which were first introduced in the early 1970's, are one of the most effective and widely used technologies in the Point Of Use (POU) drinking water treatment industry. Solid carbon blocks, or simply carbon blocks, are employed either as standalone treatment methods or in conjunction with other filtration technologies. While seemingly simple at first glance, there are many factors to evaluate when designing and manufacturing an efficient carbon block water filter. This solution guide addresses the key points a buyer should consider in developing filter specifications and selecting a supplier.

Activated Carbon for Water Filtration

Activated carbon has proven to be ideally suited to filter tastes, odors and contaminants from water. Activated carbon is a form of carbon that has been processed to increase the porosity of the individual granules, resulting in a large surface area available for adsorption. A larger surface area is an important factor in the adsorption of contaminants because it provides a better environment for the assimilation of dissolved matter. Carbon's relative low cost and wide availability make it an excellent media suitable for a broad range of applications.

Activated carbon is utilized in water filtration in two basic forms: Granular Activated Carbon (GAC) and carbon block. Both forms use carbon that has been ground into small particle sizes. The source carbon for GAC is ground to particles that are smaller than 0.84 mm but larger than 0.30 mm. To produce carbon blocks, the particles are ground further into "fine mesh" that is 7 to 19 times smaller than GAC (0.045mm-0.18 mm).

Why Carbon Block is the Better Choice

Carbon block is mainly comprised of activated carbon granules and a binding agent that allows the carbon granules to maintain a static position relative to each other. Carbon block immobilizes carbon particles to promote uniformity of performance, stopping water from channeling, which is common with GAC. GAC typically is packed in a loose bed that is contained in an enclosed cartridge or pressure vessel. Water flows through the loose column of carbon, taking the path of least resistance. Carbon block is formed into a cartridge of predetermined dimensions. The use of end caps forces water to flow through the carbon block's static pores.

It is this uniform pore structure between the individual granules of carbon that enable carbon block to achieve higher effectiveness in contaminant reduction. The uniform pore structure of carbon block also increases the contact time with the filter media, further increasing the block's ability to remove contaminants.

Carbon commonly is used in POU water filtration in both GAC and carbon block applications. Compared with GAC however, the higher efficiency of carbon block and greater number of carbon particles allows carbon block to remove or reduce impurities with much shorter contact time. Also, the smaller form factor allows carbon block manufacturers to produce high performance water filters in much smaller and more diverse product designs.

The smaller particle size and uniform pore structure of carbon block provides a high level of effectiveness in a much smaller size than a GAC at the same flow rate. For this reason, GAC typically is used as a treatment method for aesthetic contaminants (removal of taste, odor and color). Carbon block filters go beyond the aesthetic improvement of water by reducing particulates, microscopic cysts, lead, volatile organic chemicals (VOCs), and other contaminants.



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Didier Musso



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Table of Contents Carbon Block Buyers Guide

1. Understanding the eBook Carbon Block Buyers Guide
 - The Rise of Digital Reading Carbon Block Buyers Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Carbon Block Buyers Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Carbon Block Buyers Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Carbon Block Buyers Guide
 - Personalized Recommendations
 - Carbon Block Buyers Guide User Reviews and Ratings
 - Carbon Block Buyers Guide and Bestseller Lists
5. Accessing Carbon Block Buyers Guide Free and Paid eBooks
 - Carbon Block Buyers Guide Public Domain eBooks
 - Carbon Block Buyers Guide eBook Subscription Services
 - Carbon Block Buyers Guide Budget-Friendly Options

6. Navigating Carbon Block Buyers Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Carbon Block Buyers Guide Compatibility with Devices
 - Carbon Block Buyers Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Carbon Block Buyers Guide
 - Highlighting and Note-Taking Carbon Block Buyers Guide
 - Interactive Elements Carbon Block Buyers Guide
8. Staying Engaged with Carbon Block Buyers Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Carbon Block Buyers Guide
9. Balancing eBooks and Physical Books Carbon Block Buyers Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Carbon Block Buyers Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Carbon Block Buyers Guide
 - Setting Reading Goals Carbon Block Buyers Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Carbon Block Buyers Guide
 - Fact-Checking eBook Content of Carbon Block Buyers Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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