

BFW LLC

WHAT IS CLACK WATER SYSTEMS

Founded in 1944, Clack has been providing quality industrial , commercial and residential water treatment components.

We offer precision water purification technology for today's OEMs and distributors.

Made in the USA. Built to last

WHY CLACK SYSTEMS? BECAUSE THEY'RE ECO-FRIENDLY

- 1. Sustainable Materials:** Clack uses high-quality materials durable and components that reduce the need for frequent replacements—cutting down on waste.
- 2. Efficient Water Usage:** Their water treatment valves are designed to minimize water waste during regeneration cycles, conserving one of our most vital resources.
- 3. Energy Efficiency:** Clack valves are engineered to operate efficiently, reducing overall energy consumption.
- 4. Long Lifespan = Less Waste:** With reliable performance and minimal maintenance needs, Clack systems last longer—keeping more equipment out of landfills.
- 5. Responsible Manufacturing:** Clack is known for maintaining environmentally conscious manufacturing practices in their Wisconsin-based facility.

- ***Efficient regeneration: Clack systems use measured regeneration, initiating the regeneration cycle based on the actual use of water, which conserves both water and salt.***
- ***Durability and Reliability: The Clack WS1 control valve is known for its longevity and minimal maintenance needs, with some units lasting more than 15 years.***
- ***User-friendly design: These systems typically feature intuitive digital displays and easy programming, making them accessible for DIY installation and maintenance.***
- ***High flow rates: Clack systems offer higher flow rates compared to some competitors, which suits larger homes and higher water demands.***



WHY BFW LLC USE CATALYTIC CARBON AND KDF-55 INSTEAD OF REGULAR ACTIVATED CARBON SPECIALLY ON CITY WATER SOURCES.

Catalytic carbon is a specialized type of activated carbon, further treated to enhance its catalytic properties. While both are used for water filtration and other applications, catalytic carbon excels at removing specific contaminants like chloramines and hydrogen sulfide.

Traditional activated carbon is generally effective at removing organic compounds, chlorine, and other common impurities, but it may not be as efficient against these specialized contaminants. While both can be used in water and air filters, Catalytic Carbon is particularly useful in applications where the removal of these specific contaminants is crucial, like in drinking water or aquarium filtration.

CATALYTIC
CARBON™



A backwash carbon filter, such as Clack's WS1, uses granular activated carbon (GAC) to remove contaminants such as chlorine, taste, and odor from water. The GAC adsorbs these impurities, but over time, the filter needs to be cleaned. Backwashing reverses the flow of water, forcing water to move upward through the GAC bed, dislodging accumulated impurities and restoring filter efficiency.



Examples of Applications:

- **Degradation of Organic Pollutants:** Catalytic processes are effective at degrading various organic pollutants, including pesticides, dyes, pharmaceuticals, and volatile organic compounds (VOCs).
- **Removal of Heavy Metals:** Catalytic oxidation can be used to remove heavy metals from water.
- **Nitrate Removal:** Catalytic reduction can help remove nitrate from drinking water.



Catalytic carbon is often recommended to be in a separate tank in water treatment systems (especially in multi-stage filtration setups like those used for well water or whole-house systems) due to the following key reasons:



Contact Time Requirements

Catalytic carbon needs sufficient contact time with water to effectively remove chloramines, hydrogen sulfide (H₂S), and certain volatile organic compounds (VOCs).

By placing it in a separate tank, the system ensures:

- Adequate flow rate control
- Longer exposure time, which improves contaminant removal



Protects Downstream Filters

Catalytic carbon can neutralize oxidizing agents like chlorine and chloramines before water reaches other filters (e.g., softeners, reverse osmosis membranes). This:

• Extends the lifespan of downstream filters

• Prevents damage or fouling of delicate filtration media



Optimized Media Performance

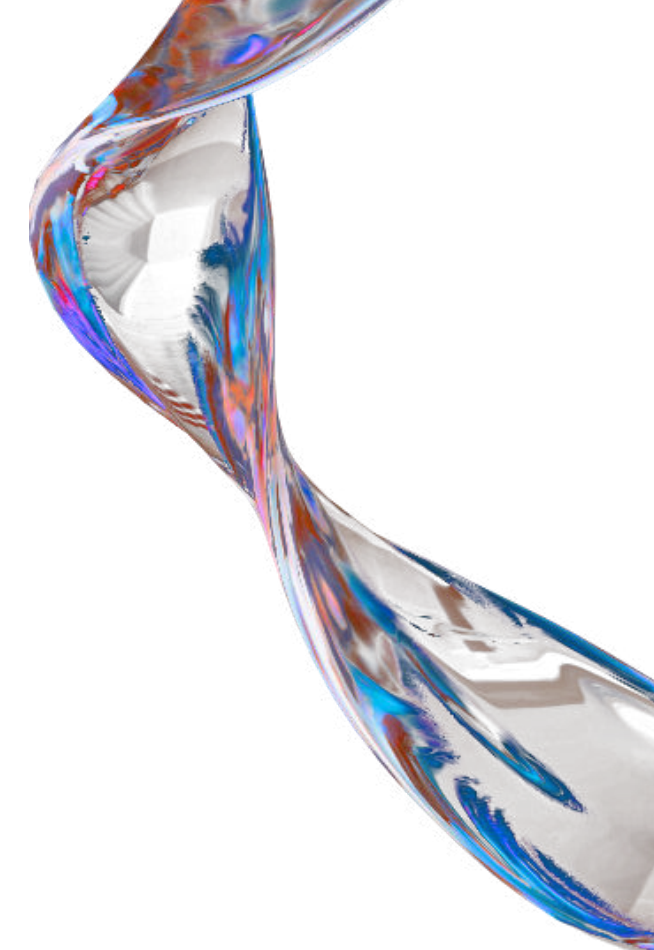
Catalytic carbon performs differently than standard activated carbon. A dedicated tank allows:

- Custom backwashing to prevent channeling or media fouling
- Use of optimal media depth for reactions to occur
- Better regeneration and maintenance



Media Contamination Control

In a mixed media tank, catalytic carbon could become contaminated by iron, manganese, or hardness minerals, reducing its efficiency. A separate tank allows:

- Targeted pretreatment (e.g., oxidizing iron/manganese first)
 - Preventing cross-media interference
- 



THE CLACK

In essence, catalytic carbon is a more specialized and potent form of activated carbon, designed to tackle specific water quality challenges that traditional activated carbon may not address effectively.

Clack mineral tanks are made of high-density polyethylene (HDPE, BPA-free) plastic liner with composite fiberglass filament that is wound over the liner. Clack's design provides a seamless continuous inner liner with a glass-filled polypropylene inlet for increased strength and pressure

PATENT COPPER ZINC MEDIA

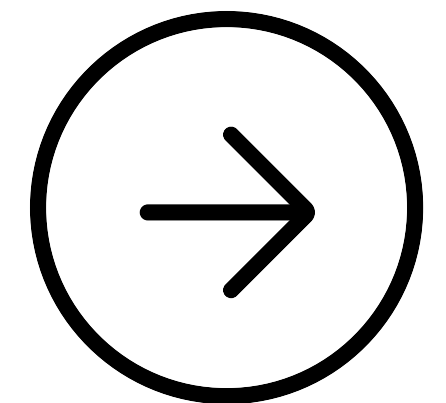
Removes or reduces chlorine and water-soluble heavy metals. It controls scale, bacteria and algae, even in hot water.

KDF 55



BENEFITS

KDF 55 Media can remove up to 99% of water-soluble lead, mercury, nickel, chromium, and other dissolved metals. All KDF Process Media forms are effective in controlling the buildup of bacteria, algae, fungi and scale, making them ideal for use in GAC beds, ion exchange resins, carbon block filters and inline carbon filters. Wherever our Media are used, they can eliminate the need for costly, and sometimes harmful, chemical treatments.





MADE IN USA

ALL OUR CATALYTIC AND ACTIVATED CARBONS ARE
CERTIFIED BY:

NSF International (NSF) is a rigorous testing and certification process that ensures products and services meet specific health and safety standards. NSF standards are developed through a public consensus process that involves various stakeholders. NSF certification ensures that products have been tested and meet standards, contributing to public health and safety.



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