AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

AquaPRS™ PFAS Removal System

Competition – Methods to Remove PFAS

Per- and polyfluoroalkyl substances (PFAS) are a group of synthetic chemicals that have been linked to various health concerns. To remove PFAS from water, the most effective method is to use a filtration system that utilizes a reverse osmosis membrane, which can significantly reduce PFAS levels by pushing water through tiny pores that trap contaminants; alternatively, some activated carbon filters can also remove PFAS, though their effectiveness may vary depending on the specific filter and the level of contamination. Here are some methods to remove PFAS from drinking water:

1. Activated Carbon Filtration:
    - This method involves passing water through a filter containing activated carbon, which traps and removes PFAS molecules.
    - Effectiveness: Can remove up to 99+% of PFAS. Can remove some PFAS, but effectiveness can vary significantly depending on the filter type and concentration of PFAS
    - Cost: Varies depending on the size and type of filter.
2. Reverse Osmosis (RO):
    - RO uses a semipermeable membrane to filter out PFAS and other contaminants from water.
    - Effectiveness: Can remove over 99.9% of PFAS.
    - Cost: More expensive than activated carbon filtration and other solutions, requires regular maintenance.
3. Granular Activated Carbon (GAC) Filters:
    - Similar to activated carbon filtration, but uses larger particles of carbon that can be more effective at removing larger PFAS molecules.
    - Effectiveness: Can remove up to 99+% of PFAS. Can remove some PFAS, but effectiveness can vary significantly depending on the filter type and concentration of PFAS
    - Cost: Varies depending on the size and type of filter.
4. Ion Exchange Resin:
    - This method uses a resin that exchanges ions with PFAS molecules, removing them from the water.
    - Effectiveness: Can remove up to 99+% of PFAS. Can remove some PFAS, but effectiveness can vary significantly depending on the filter type and concentration of PFAS
    - Cost: Relatively expensive, requires regular maintenance.

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