



Nelsen Water Solutions Sulfate Reduction System

System Summary

Sulfate occurs naturally in many groundwater sources. As water moves through soil and rock formations containing sulfate minerals, some sulfate dissolves into the groundwater.

Why remove sulfates from drinking water?

- High sulfate levels can lead to gastrointestinal discomfort, including diarrhea.
- Taste and odor – Sulfates can give water a bitter taste and sometimes a noticeable odor, making it unpalatable for consumption.
- Plumbing issues – Sulfates can contribute to the corrosion of plumbing pipes and fixtures, leading to increased maintenance costs and potential leaching of metals into drinking water.
- Aesthetic concerns – High sulfate levels can lead to scale formation in pipes, boilers, and other appliances, reducing their efficiency and lifespan.

The U.S. Environmental Protection Agency (EPA) has set a secondary maximum contaminate level (SMCL) for sulfate in drinking water at 250 mg/L. This standard is based on taste, odor, and aesthetic considerations rather than health effects.

The NWS-SULFATE systems utilize Purolite’s WQA Certified A300E ion exchange resin, which is manufactured to reduce Sulfates in drinking water. In the ion exchange process, as water moves through the media, the Sulfate ions are replaced with chloride. The source of chloride is from the salt used to regenerate the unit. Our regenerable treatment systems offer long-term, sustainable, and cost-effective contaminate reduction.



Certifications and Materials:



WQA Certified Components (tank, media)



NSF Certified Components (head, bypass)

Corrosion-Resistant Materials

SYSTEM SPECIFICATIONS

Model #	Flow Rate	Tank Size	Dimensions
NWS-SULFATE-6	6 GPM	10" x 54"	27w" x 18d" x 61h"
NWS-SULFATE-10	10 gpm	13" x 54"	27w" x 18d" x 61h"

Note: These guidelines describe average low risk operating conditions. They are not intended to be absolute minimums or maximums. For operation outside these guidelines, contact your salesperson. Yearly testing is suggested to ensure contaminate removal.