

## Green Filtration Series

### Dual Gradient Double Pleated Filters with NanoAI™ Media

The Green Filtration Series are electropositively charged dual gradient double pleated filtration solutions that successfully remove contaminants from 1 to 0.2 microns, featuring NanoAI™ media. The filters are designed with a larger 20 micron pre-filtration layer externally and the charged media internally, extending filtration level contamination and service life, while achieving high flow and low pressure drop.

All filters feature the use of Agion® antimicrobial technology that provides built-in protection by working 24/7 resisting the growth of microbes. Each filter comes with a unique handle designed top cap for lightweight and easy removal, a bag for proper disposal, and a double o-ring bottom connection into the Cartridge Tank® plumbing adapter for the 2½" assembly and full 1¼" PVC glue socket flow rate connections.



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### Features & Benefits

- Dual Gradient Double Pleated Filters with electropositively charged NanoAI™ media
- Double Buna-N O-ring seals
- Filter Belly Bands
- PAC solution option
- Agion® antimicrobial technology
- Ensures no bypass of contaminants and high chemical compatibility
- Prevent collapsing of filters under high flow or contaminant load applications

### Two filter configurations:

**SCT-20NANOAG:** External 20 Micron Pleated pre-filter, with NanoAI™ Pleated Inner Filter w/Agion® Biostat

**SCT-20NANOPACAG:** External 20 Micron Pleated pre-filter, with NanoAI™ PAC Pleated Inner Filter w/Agion® Biostat and Carbon Block Core

### Applications

- Primary Filtration in lieu of microporous membranes
- Make Up Water (particulate, microbial control)
- Polishing Filters (carbon fines, emulsified oil removal)
- RO Prefiltration (SDI reduction)
- Process Water (turbidity, particulate, colloidal suspensions)
- Waste Water (biologicals, proteins, dyes)
- Cooling Towers, Chill Water Loops (iron removal)

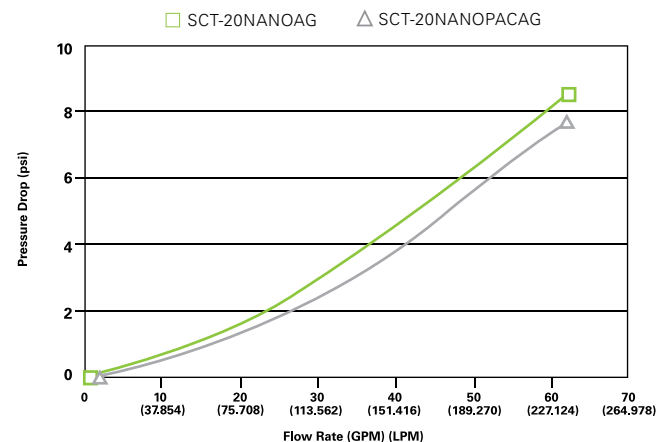
### Better Filtration - There's No Competition

**Known foulants for RO membranes** that are reduced by this adsorptive technology: Virus, bacteria, colloids (Iron, Manganese, Silica, etc), Cellular debris is also reduced: Lipids (hydrophobic and hydrophilic), Phospholipid, Proteins, Carbohydrates, and Glucose – mono and poly saccharides (TEP/EPS)

**Data suggests adsorptive filter media** could represent a significant improvement to membrane performance, life and overall operating cost by reducing fouling.

**Additional filtration highlights include:** Removal of Humic Acid based tannins; 3-4 log reduction, cyst removal; Endotoxin removal; Selected Heavy Metal Removal: Fe<sub>2</sub>, Fe<sub>3</sub>, Sn, Cu, Cr<sub>3</sub>, Al; Reduces Membrane fouling; Pre-, Post-, and Stand-Alone Filtration Solution

### Filter Performance



Performance claims are based on independent lab results and manufacturer's internal test data. Actual performance is dependent on influent water quality, flow rates, system design and applications. Your results may vary. Micron ratings based on 85% or greater removal of a given particle size. Estimated capacity using 2ppm free chlorine with greater than 90% reduction. Flush new cartridges until water runs clear prior to use.

### NOTICE

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.