



# FILTERSORB® SP3

## THE GREEN SOLUTION FOR SCALE PREVENTION

**NO: CHEMICALS, SALT REGENERATION, BACKWASH, CONTROL VALVE, ELECTRICITY, MAINTENANCE, WASTE, ENVIRONMENTAL IMPACT**

### WORKING PRINCIPLE:

- When the hard water under goes nucleation in the pressure vessel, the calcium bicarbonate is transformed in aragonite form of calcium carbonate crystals. These crystals are formed through decomposition and crystallization process, forming very stable harmless crystals.
- The calcium carbonate crystals grow steadily, are very stable, cannot dissolve and are incapable of forming scale in water.
- Glass grains crystallization sites provides increased nucleation sites for the formation of submicron sized calcium carbonate crystals which is called Nucleation Assisted Crystallization (NAC).
- Once formed and detached from the surface of FILTERSORB® SP3 media beads, the crystals will not adhere to any other surfaces, even for hot water applications up to 380 degrees C. Aragonite crystals can't form scale because of its stable molecular structure and neutral surface electro potential.

### THESE PREMIUM WATER CONDITIONING SYSTEMS PROVIDE THE FOLLOWING:

- Cleaner, safer, better tasting water throughout the home
- Prevents scale formation in piping, appliances and hot water heaters and can help reduce previously formed scale deposits over time.
- No change in Total Dissolved Solids (TDS)



*Clack side by side in/out with bypass and adapters*



*Clack side by side in/out with bypass and adapters close up*



*PVC straight in/out close up*



*Basic straight in/out (standard)*

# FILTERSORB® SP3

- pH of the water remains the same
- Preserves the naturally occurring Calcium and Magnesium content for the benefits of great tasting healthy mineral water
- Does not add any sodium which is a byproduct of traditional salt regenerating water softeners
- The NAC process creates the conditions that water dissolved CO2 agglomerate to form micro-bubbles which actively destroy bacterial membranes acting as a biocide to help prevent biofouling
- Effective for removal of lead from water
- NSF 61 certified

**FILTERSORB®SP3 has proven itself in a variety of applications as an alternative to ion exchange softening or other treatment methods. The maintenance-free characteristics make it especially suited for Residential, Commercial and Foodservice applications where equipment maintenance is overlooked including:**

**Home appliances:** Faucets, water pipes, shower heads, toilets, beverage systems, kitchen machines, dish washers, ice cube makers.

**Major appliances:** Central heating and air conditioners, water heaters, air humidifiers coffee makers, solar heating systems and water coolers.

**Boilers:** Hot water boilers, tankless hot water heaters, central heating boilers, commercial/industrial hot water boilers.

**Cooling towers:** Closed circuit cooling towers, open circuit cooling towers, concrete cooling towers and cross flow cooling towers.

**NOTE:** Do not use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit. The effective average lifespan is 5-7 years depending on feed water conditions.

## OPTIONAL SYSTEMS: SELECT BEST SYSTEM FOR YOUR APPLICATION

**DESIGN NOTE:** For hardness greater than 25 gpg and flows greater than 25 gpm, please consult Aqua Wholesale

The table below is based on average hardness up to 12 gpg.

PART # STANDARD 1" FNPT IN/OUT	SERVICE FLOW RATE	FILTERSORB® SP3 QUANTITY	TANK SIZE	SHIPPING WEIGHT
001SP310112	10 gpm	3 Liters	7"x 44"	20 Lbs.
001SP312112	12 gpm	4 Liters	7"x 44"	22 Lbs.
001SP315112	15 gpm	4.5 Liters	8"x 44"	23 Lbs.
001SP320112	20 gpm	6.5 Liters	9"x48"	29 Lbs.
001SP325112	25 gpm	7.5 Liters	10"x54"	35 Lbs.

The table below is based on average hardness up to 25 gpg.

PART # STANDARD 1" FNPT IN/OUT	SERVICE FLOW RATE	FILTERSORB® SP3 QUANTITY	TANK SIZE	SHIPPING WEIGHT
001SP310125	10 gpm	6.5 Liters	9"x48"	35 Lbs.
001SP312125	12 gpm	8 Liters	10"x54"	37 Lbs.
001SP315125	15 gpm	10 Liters	10"x54"	40 Lbs.
001SP320125	20 gpm	13 Liters	12"x 53"	47 Lbs.
001SP325125	25 gpm	16.5 Liters	13"x54"	63 Lbs.