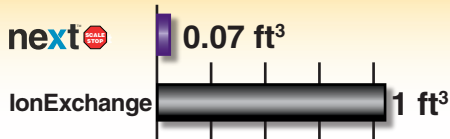


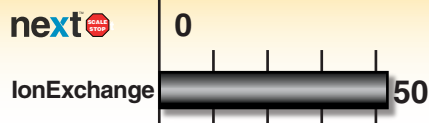
## Efficiency and Economy

### Media Volume Required

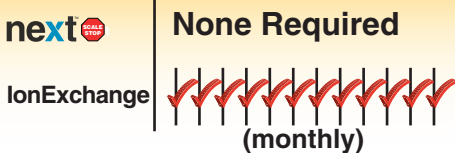


### Backwash Volume

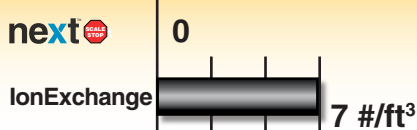
(gal/ backwash/ft<sup>3</sup>)



### Service Frequency



### Regenerant Volume (per regeneration)



## Applications



From residential to commercial to industrial, **nextScaleStop** delivers extraordinary performance and value.

## Introduction

**next-ScaleStop** is the embodiment of a new technology, Template Assisted Crystallization (TAC). Atomic level Templates on the surface of small specially treated polymer spheres transform dissolved CaCO<sub>3</sub> to a crystalline form. The crystals are relatively insoluble, effectively isolating the CaCO<sub>3</sub> from the water chemistry and anything the water contacts.

## Features

- **Extremely efficient** - **5 seconds** contact time regardless of hardness level. Conventional Ion Exchange resin requires **90 seconds**.
- No salt or other chemical regenerants required.
- No backwash waste. Can be used in areas where water softeners are banned. Protects the environment and reduces water usage.
- Long lasting media-not consumed by the reactions.
- No control valve or electricity required.
- Media can be used in both conventional mineral tanks or POU cartridge form.
- Media operates in upflow condition.

## Applications

**next-ScaleStop** has proven itself in a variety of applications as an alternative to ion exchange softening or other conventional water treatment methods. The maintenance-free characteristics make it especially suited for Foodservice and Commercial applications where equipment maintenance is often overlooked.

### Foodservice

- Coffee & Tea Brewers
- Espresso Machines
- Boiler based Steamers
- Proofer Ovens
- Steam Tables
- Mist Cooling Systems

### Commercial/Industrial

- Car Washes
- Evaporative Cooling
- Hotels
- Boilers

### Residential

- Water Heater
- Laundry
- Dishwasher
- Bath and Shower

## Physical Properties

- Composition Specially treated polymer
- Size 0.550-.850 mm (approx. 20x40 mesh)
- Color Pale yellow-beige.
- Bulk Density 42 lbs per ft<sup>3</sup> (.67 kg/l)
- Packaging 120 liter drum (4.24 ft<sup>3</sup>) 81kg (178lb) 20 liter pail (.71 ft<sup>3</sup>) 13.5kg (29.8lb)

## Water Chemistry & Limitations

- pH 6.5 to 8.5
- Hardness, max. 75 grains (1300 ppm CaCO<sub>3</sub>)
- Temperature 41 to 140° F (5-60° C)
- Chlorine <3ppm
- Iron, ferrous 0.3 mg/l
- Manganese 0.05 mg/l
- Copper 1.3 mg/l
- Oil & Polyphosphates Remove prior to **next-ScaleStop**
- H<sub>2</sub>S Must be removed prior to **next-ScaleStop**.

## Operating Conditions

- Service Flow: 4 gpm/liter of media. System flow limited by bed expansion
- Bed Depth: 4-10 inches typical depending upon flow rate.
- Freeboard: 200% of bed depth, (minimum 20")
- Can be used in continuous or intermittent operation
- Operates in upflow mode, no backwash required.

## Regulatory Approvals



nextScaleStop conforms to the requirements of NSF/ANSI 42, for material safety only, when used at use levels up to 0.17 Liters of media per Liter of water with a 5 minute flushing and conditioning procedure.

**next**<sup>TM</sup> filtration  
technologies inc.  
6542 Hypoluxo Road, Suite 362  
Lake Worth, FL 33467  
email: [info@nextfiltration.com](mailto:info@nextfiltration.com)  
web: [www.nextfiltration.com](http://www.nextfiltration.com)

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