Ultimate Scale Prevention Technology
for Big commercial and Residential Applications

SPECIAL SERIES:
Provides the perfect solution for protecting every equipments against lime scale buildup.

Benefits
- Cost-effective service life, 5 – 7 years
- Easy-Only one connecting head, quick filter change
- High flow- and highest capacity sufficient for
  - SPECIAL ONE – connection ½” – flow rate 1.0 m³/h
  - SPECIAL TWO – connection ¾” – flow rate 2.0 m³/h
  - SPECIAL THREE – connection 1” – flow rate 3.0 m³/h

Applications

Food service & institutional
- Coffee and Tea Brewers
- Espresso Machines
- Steam ovens
- Proofing ovens
- RO Pre-treatment

Residential
- Whole house Scale Prevention
- Water Heaters
- Tank-less water heaters
- Bath and shower

Commercial/Industrial
- Hotels, Hospitals, Apartments
- Car washes
- Catering services
- Cooling Towers
- Evaporators & Humidifiers

SPECIAL-NAC (Nucleation Assistance Crystallization)
Adds
- No chemicals like Sodium and Hydrogen ions to assure keeping all minerals in the water, which are very essential for humans and pets
- Maintaining essential minerals in the water that provides benefits to customers’ health while also creating high-quality drinks, tastes and flavors.
Installation Set

The SPECIAL-NAC installation set compromises the following components.

- NAC Head (1) with top distributor (2) with \(2\frac{1}{2}''\) outer thread for mounting on NAC Vessels (3) suitable for all sizes of Vessels with inlet and outlet threads integrated into NAC Head.
- Bracket (4) to hold inlet and outlet threads and to do – Quick Filter change, simple and easy.
- SPECIAL-NAC system are available in sizes of **ONE-TWO-THREE** and so on with internal thread for screwing NAC Head
- SPECIAL ONE = One liter of NAC media
- SPECIAL TWO = Two liters of NAC media
- SPECIAL THREE = Three liters of NAC media

**SPECIAL System removes lead (Pb) from Drinking Water**

**Note: All SPECIAL-NAC System is covered by 1 years warranty**

### Operating conditions

<table>
<thead>
<tr>
<th>SPECIAL-NAC Technology</th>
<th>ONE</th>
<th>TWO</th>
<th>THREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inlet/outlet inches</td>
<td>(\frac{1}{2})</td>
<td>(\frac{3}{4})</td>
<td>1</td>
</tr>
<tr>
<td>Flow rate m(^3)/h</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Flow rate gpm</td>
<td>4.4</td>
<td>8.8</td>
<td>13.2</td>
</tr>
<tr>
<td>Working pressure bar</td>
<td>2 – 8 bar (29 – 116 psi)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature °C</td>
<td>5°C to 50°C (41°F to 122°F)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working life Year(s)</td>
<td>One*</td>
<td>Two*</td>
<td>Three*</td>
</tr>
<tr>
<td>Regeneration</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Waste water</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Max. Chlorine content mg/L (ppm)</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Max. Copper mg/L (ppm)</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
</tbody>
</table>

*Depending on the Inlet water parameters

www.watchwater.com
**Function of the System:**

**USE**
SPECIAL-NAC systems are used to treat Temporary water hardness to avoid any scale in water and it is certified to ANSI/NSF-61 by WQA. NAC media reduce the scale content of drinking water, thus protecting all water related equipments. It’s very important to know that the system is not based on Ion-Exchange technology which removes all precious minerals, the taste of Food and aroma of drinks is improved much more.

**DESIGN**
The tap-water (inlet) flows to the Vessel through Riser-tube with bottom distributor (Special Bottom distributor) in fluidized bed of Filtersorb SP3. In this volume area the temporary hardness $\text{Ca(HCO}_3\text{)}_2$ changes into very precious crystals of $\text{CaCO}_3$ which are non-dissolvable in water and cannot make scale any more. Good quality of $\text{H}_2\text{O}$ dissolves any coffee, tea, juices and giving the water best taste and aroma. Depending on the permanent hardness of the tap-water, system life can give huge amount of reduced scale depending on the amount of media inside the vessel.

**Proper Use**
The NAC system is used solely to treat Temporary Hardness (prevent the lime scale build up) of tap water or drinking water quality and to remove - Odors, Tastes and Suspended particles including chlorine, it’s very important to install **Rebecca Activated Carbon Cartridge** in front of the system.

For more information please visit [www.rebeccafilter.com](http://www.rebeccafilter.com)
ENVIRONMENT

Nucleation Assisted Crystallization (NAC) has proved that it’s the only Scale-Prevention technology which is Effective, Salt-free, chemical free and treats water hardness minerals (Temporary hardness) into healthy CaCO$_3$ crystals. In very simple understanding, these crystals cannot stick to any metal or piping material and cause scale. It is certified to ANSI/NSF-61 drinking water.

Watch-Water manufactures Filtersorb SP3 since 2004 and more than 3 Million Systems are installed worldwide. The only media in the world with its Test-Kit (Clear Yellow). No other Scale-Prevention or Scale-Treatment systems can be tested or has any method to test. Why? Ask this from your Scale-Prevention system provider or Media Manufacturer.

Technical Data

<table>
<thead>
<tr>
<th>Model: SPECIAL-NAC</th>
<th>ONE</th>
<th>TWO</th>
<th>THREE</th>
<th>Over THREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Height with head</td>
<td>mm</td>
<td>525</td>
<td>485</td>
<td>655</td>
</tr>
<tr>
<td>Total height without head</td>
<td>mm</td>
<td>475</td>
<td>435</td>
<td>605</td>
</tr>
<tr>
<td>Connection height</td>
<td>mm</td>
<td>500</td>
<td>460</td>
<td>630</td>
</tr>
<tr>
<td>Installation length</td>
<td>mm</td>
<td>160</td>
<td>160</td>
<td>160</td>
</tr>
<tr>
<td>Vessel diameter</td>
<td>inches</td>
<td>6</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Vessel height</td>
<td>inches</td>
<td>18</td>
<td>17</td>
<td>23</td>
</tr>
<tr>
<td>Weight of complete system</td>
<td>kg</td>
<td>3.2</td>
<td>4.3</td>
<td>6.0</td>
</tr>
<tr>
<td>NAC media amount</td>
<td>Liters</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

Manufactured by:

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Join the Team Today!
With us your water is safe & healthy.

All details on SPECIAL-NAC Home Page www.watchwater.com