



AIR CLEANING EQUIPMENT INC
 303 N Main St • Broadway NC 27505 • 800-962-0650
WWW.INDUSTRIALAIRTREATMENT.COM

ScaleX2®

An Alternative to Water Softening
 Chemical-Free Scale and Hardness Protection
 Information – Specifications

• ScaleX2® (SX2) Water Pre-Treatment for Humidity Control Systems

The Superior Water Softener Alternative



Chemical-Free Scale Prevention

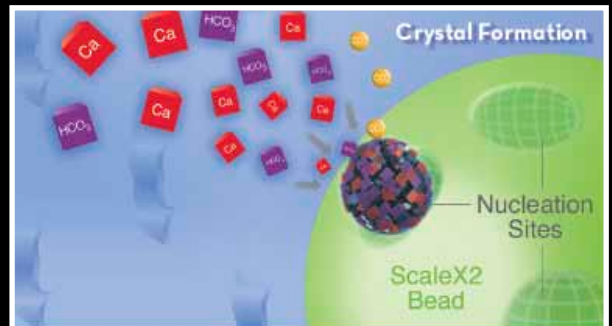
- No salt
- No chemicals
- No electricity

Template Induced Crystallization (TIC)

Effective Scale Prevention
 – *Converting scale-causing calcium carbonate (CaCO₃) into harmless, inactive microscopic crystals.*

• **Tested** – by an independent laboratory against the international protocol for scale prevention – ScaleX2® achieved a 99.6% effectiveness rating – the highest among all water softener alternatives. Used in business applications successfully for 8 years.

• **Simple & Efficient Operation** – Converts dissolved hardness ions (scale-causing calcium carbonate) into harmless, inactive microscopic crystals - No backwash water waste – Long lasting media-not consumed by the reactions – Great fit for corporate “Green” programs or initiatives.



Atomic sized nucleation sites on the surface of small polymer beads convert dissolved hardness into microscopic crystals.



Once the crystals grow to a certain size they are released from the bead. The crystals in solution keep the hardness out of the water so that it can't form scale or interfere with soap.

Nano-Crystal observed on the ScaleX2 media surface.

Photo by the Scanning Electron Microscope.



When the crystals are large enough, they break free and are carried away with the flow of water.



Effective – Low Cost – Low Maintenance Scale Prevention



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Specifications:

Water Chemistry Components & Application Ranges (Use only on municipal water)

- | | |
|--------------------------|---|
| • pH | between 6.5 to 8.5 |
| • Hardness, max. | 25 grains (428 mg/l CaCO ₃) |
| • Water Temperature | 41 to 140° F (5-60°C) |
| • Chlorine | less than 3 ppm |
| • Iron | maximum 0.3 mg/l |
| • Manganese | maximum 0.05 mg/l |
| • Copper | maximum 0.3 mg/l |
| • Oil & H ₂ S | Remove prior to ScaleX2® |
| • Polyphosphates | Remove prior to ScaleX2® |

Regulatory Approvals:



The ScaleX2® filter cartridge in the SX2-11 and SX2-12 is Tested and Certified by NSF International against NSF/ANSI Standard 42 for materials and structural integrity requirements only.

NOTE: Testing was performed under standard laboratory conditions, actual performance may vary. It is recommended that you have your water supply tested to determine your actual water treatment requirements.

Model SX2-11

Capacity
1 gpm

Dimensions
14.5" H
8.5" W
5" D

Weight
8 lbs

Cartridge
Annual
Cartridge
Replacement
SCLX2-1



Model SX2-12

Capacity
2 gpm

Dimensions
25" H
8" W
5" D

Weight
10 lbs

Cartridge
Annual
Cartridge
Replacement
SCLX2-2



Model SX2-12B

Capacity
4 gpm

Dimensions
28.25" H
11.75" W
8" D

Weight
16 lbs

Cartridge
Annual
Cartridge
Replacement
SCLX2-4



Note 1: Each New ScaleX2 Model Includes 2 Cartridges at time of order (2 year supply / 1 cartridge per year).

Note 2. Larger Systems available.

Note 3. Operation: with adequate system pressure and yearly filter change, normal operation is completely automatic.

Note 4. Routine Maintenance: yearly filter change and/or replacement of sump O-rings if needed.

Note 5. Maximum pressure: 125 psi; Inlet/Outlet Connections: 1/2" frpt; Max. Temp: 100°F / Min. Temp: 35°F

Note 6. Install a 1/2" full-flow ball valve on the water supply side to the ScaleX2 unit.

Note 7. ScaleX2, when included upon ordering a new high pressure system from ACE, is factory installed on the pump skid and shipped as an integral component of the pump station skid to customer location.

Note 8. Replacement Parts for all three sizes which may be special ordered include: the cartridge filter, sump housing, sump O-ring, Inlet Ball Valve, Wrench and Pressure Relief Button Kit.