

Residential & Commercial SoftPac Systems

SoftPac Anti-Scale Media

The No-Salt, No Hassle, Hardness Solution

The SoftPac Unit *does not use salt* and does not add sodium to the water.

It requires: *no control heads*
 no water for backwashing
 no common salt for regeneration

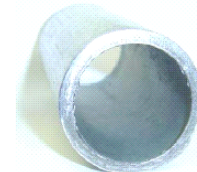
This means you have: *no cost for service*

How it works...

SoftPac is a catalyst with molecular patterns on its surface on which, depending upon the calcium and magnesium carbonate content of the water, calcite crystals grow. When the crystals reach a size in the range of Nanometers they detach and are carried away by the water flow. These calcite crystals are heat resistant and can no longer cause lime deposits. The treated water coming out of the SoftPac unit is also able to remove existing scale. Depending on the thickness of the existing scale it will take some weeks to remove it 100 %. But after this the pipe system and the heat exchanger surfaces will be absolutely clean.

The SoftPac conditioner is not a traditional filter or softener. The SoftPac conditioner does not trap the hardness nor does it exchange anything for the hardness like a traditional water softener. The SoftPac water conditioning system works like a “catalyst” media in that it causes crystallization of ions on the surface of the resin bead. The inlet water flow in a SoftPac water conditioning system is always in upward motion from the bottom up in the filter housing. The resin media in the SoftPac system always stays in a suspended fluidization state when the water is flowing upward in the filter. The resin media is in constant motion and the flows are from the bottom to the top so the resin media cannot filter the water. All of the temporary hardness that enters the SoftPac system is pulled out of solution and forms crystals as they attach to the resin surface. They attach to the resin media for a short time until they grow to Nano, sub-micron size and break free from the media and pass along with the water flow.

The Nano crystals cannot attach to any surface and the same benefits of a softener are enjoyed while leaving the hardness in a Nano crystal state.



With Softpac



Without Softpac



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Advantages

- 100% Scale prevention
- No regeneration chemicals required
- Long lifetime (5 years minimum)
- Media is not sacrificial, therefore is not used up in treatment process
- No backwash, or backwash valve
- Highly efficient: 1 cu. ft. @ 120 gal/min.

Limitations:

- Hydrogen Sulfide, Iron and Manganese prefiltration required.
- Oil should not be present.

Conditions For Operating

- Water pH range: 6.5 to 8.5
- Temperature: 48° F to 150°
- Bed depth: minimum 5"
- Only to be used in upflow systems to avoid backwash.
- Service flow: 25 GPM
- Freeboard: 200% of bed depth, Minimum 20"



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**SoftPac
Tank Sizes & Media Capacity**

Tank Size	Square Ft. of Bed Area	Volume of SoftPac (Liter)	Volume of SoftPac (Cup)	Available Valves	Inlet/Outlet	Service Flow Range Maximum	Bed Depth (Inches)	Distributor Type
7 X 44"	0.267	4.1	17.3	Clack Up-flow	1"	7	6.4	Stack Distributor
9 X 48"	0.44	6.67	28.2	Clack Up-flow	1"	11	6.4	Stack Distributor
10 X 54"	0.54	8.93	37.75	Clack Up-flow	1"	15	6.89	Stack Distributor
12 X 48"	0.78"	11.86	50.13	Clack, APW Upflow	1", 1½"	20	6.4	Stack Distributor
12 X 52"	0.78"	12.78	54	Clack, APW Upflow	1", 1½"	22	6.89	Stack Distributor
13 X 54"	0.92"	14.88	63	Clack, APW Upflow	1", 1½"	26	6.89	Stack Distributor
14 X 65"	1.07"	18.75	79.25	APW Up-flow	1½"	33	7.38	Hub & Lateral
16 X 65"	1.39"	24.56	104	APW Up-flow	1½"	43	7.38	Hub & Lateral
18 X 65"	1.77"	30.75	130	APW Up-flow	1½"	54	7.38	Hub & Lateral
21 X 62"	2.41"	39.03	165	APW Up-flow	1½"	68	6.89	Hub & Lateral
24 X 72"	3.14"	54.56	231	APW Up-flow	1½"	96	7.38	Hub & Lateral