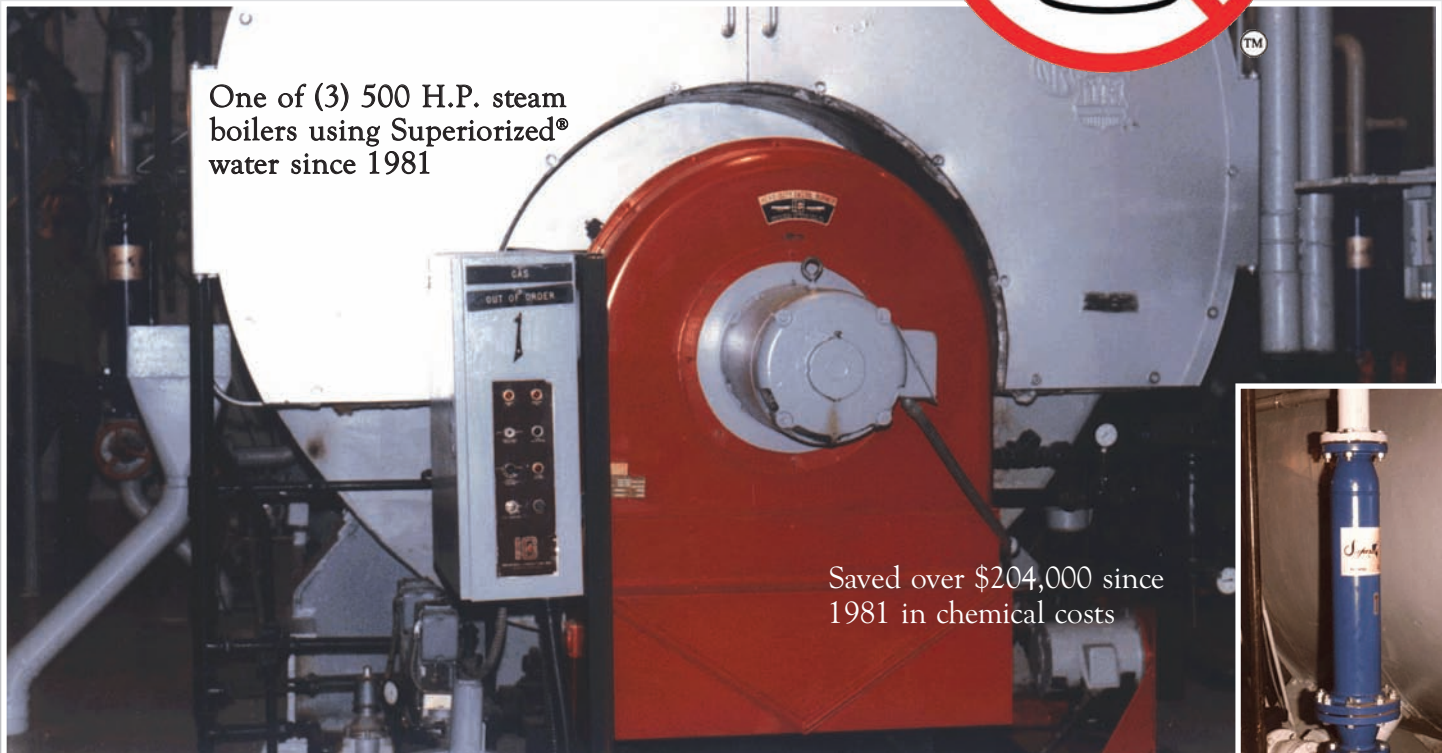


PROTECT

Your Boiler and Heating System...



One of (3) 500 H.P. steam boilers using Superiorized® water since 1981

Saved over \$204,000 since 1981 in chemical costs



...from Lime Scale and Corrosion Without The Use Of Harsh Aggressive Chemicals

With the ever-increasing cost of fuel today, business cannot afford to waste energy. A unique water treatment system program, properly designed, can yield substantial savings in both time and money.

When water temperature changes, minerals precipitate in the form of a hard, brittle scale that collects in the piping and on heat transfer surfaces. This insulating scale build-up reduces the efficiency of equipment, increases fuel requirements, and increases maintenance.

Maintaining scale-free surfaces assures optimum heat-

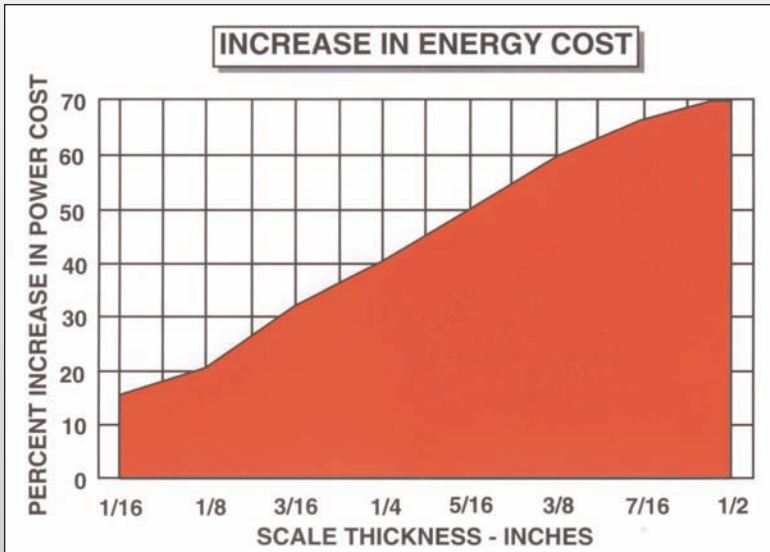
transfer coefficients, enabling the maximum utilization of your equipment, reducing downtime.

Superiorized® water controls the formation of scale and corrosion deposits without the use of hazardous and costly chemicals. Because no chemicals are used, discharged water is pollution-free and is non-hazardous to the environment.

Since 1964, years of experience and research have gone into making Superior the leader in the non-chemical water treatment industry.



Make the Most of Your Energy Dollars



Above data from the University of Illinois and the U.S. Bureau of Standards (now NIST).

The Superior Water Conditioner's® patented system will control the formation of scale and corrosion deposits without the use of chemicals.

Water passing through Superior Water Conditioner's® alternating magnetic fields causes the minerals to stay suspended in the water so they cannot form a hard, brittle scale.

Rather than the usual hard, crystalline structure formed by water-borne minerals, Superiorized® water keeps minerals in a soft, amorphous form. This amorphous coating lays a thin film of aragonite talc on the inside of pipes and the water side of boilers, which prevents free oxygen in the water (one of the most common causes of corrosion) from attacking the metal surfaces. Excessive solids settle to the bottom of the system in a soft, purgeable form that is easily removed through manual or automated blow downs.



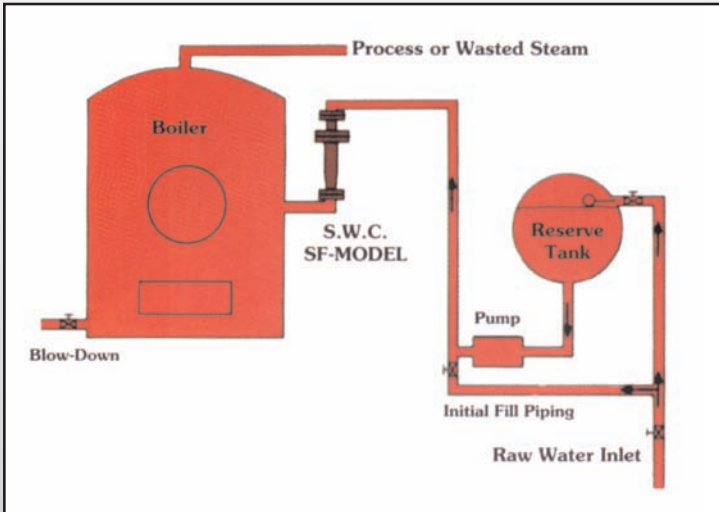
Model RT-SS 4 - 15 GPM
FNPT - 1/2" - 1"
Also available in BSPT



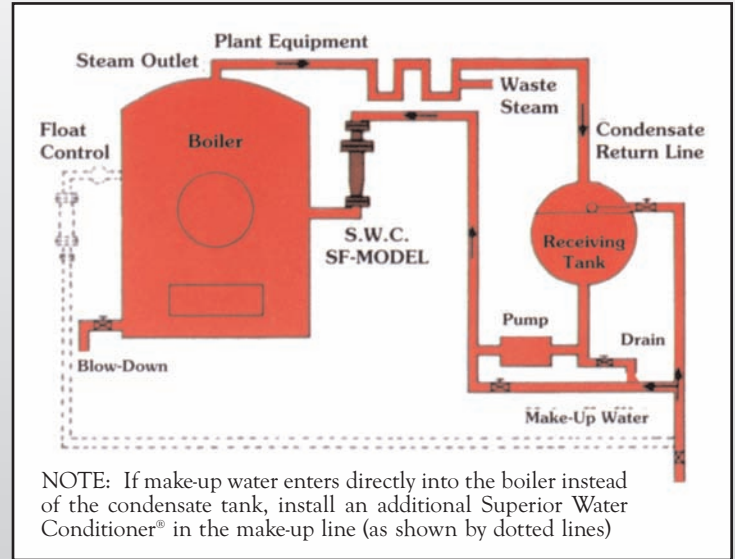
Model SF-AC 30 - 500 GPM
Connecting Flanges 1-1/4" - 6" (shown above)
Flanged units up to 60" also available
with capacities up to 50,000 GPM

Non-Chemical - Non-Polluting

Installations

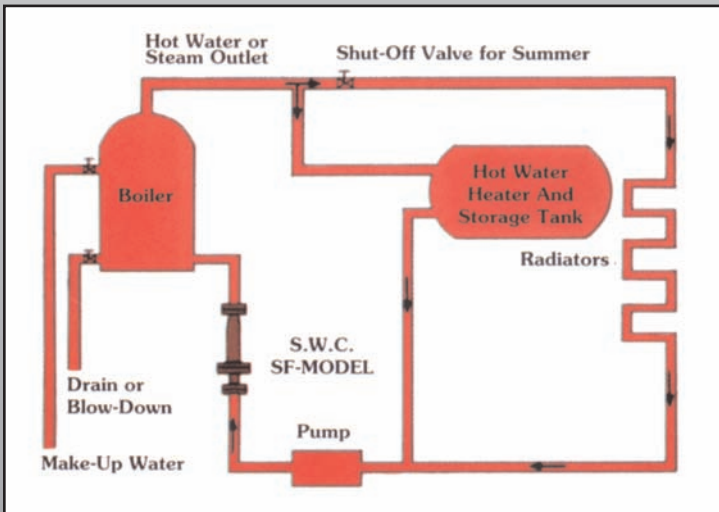


Straight-Through Processing Steam Boiler

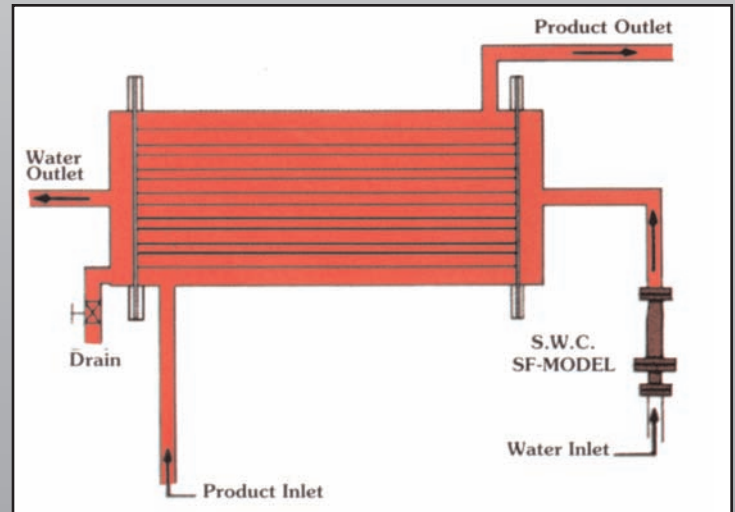


NOTE: If make-up water enters directly into the boiler instead of the condensate tank, install an additional Superior Water Conditioner® in the make-up line (as shown by dotted lines)

Recirculating or Condensate Return Processing Steam Boiler



Hot Water or Low Pressure Steam Heating Boiler



Heat Exchanger

No Hazardous Material Reporting

Sizing Chart

Boiler Horse Power	Boiler Heating Surface	Superior Model Number	GPM Evaporated 100% Rating	GPM Evaporated 150% Rating	GPM Evaporated 200% Rating	LBS/HR Evaporated 200% Rating
5	50	RT-500-SS	.35	.53	.7	350
10	100	RT-500-SS	.7	1.05	1.4	700
15	150	RT-500-SS	1.0	1.5	2.0	1,000
20	200	RT-750-SS	1.4	2.1	2.8	1,400
25	250	RT-750-SS	1.7	2.55	3.4	1,700
30	300	RT-1000-SS	2.1	3.15	4.2	2,100
40	400	RT-1000-SS	2.75	4.12	5.5	2,750
50	500	RT-1000-SS	3.45	5.17	6.9	3,450
60	600	SF-1250-AC	4.16	6.24	8.32	4,160
75	750	SF-1250-AC	5.2	7.8	10.4	5,200
100	1,000	SF-1250-AC	6.9	10.35	13.8	6,900
125	1,250	SF-1500-AC	8.6	12.9	17.2	8,600
150	1,500	SF-1500-AC	10.4	15.6	20.7	10,400
175	1,750	SF-1500-AC	12.1	18.15	24.2	12,100
200	2,000	SF-1500-AC	13.8	20.7	27.6	13,800
225	2,250	SF-2000-AC	15.5	23.25	31.0	15,500
250	2,500	SF-2000-AC	17.3	26.0	34.5	17,300
275	2,750	SF-2000-AC	19.0	28.5	38.0	19,000
300	3,000	SF-2000-AC	20.7	31.0	41.4	20,700
350	3,500	SF-2500-AC	24.2	36.3	48.4	24,200
400	4,000	SF-2500-AC	27.6	41.4	55.2	27,600
450	4,500	SF-2500-AC	31.0	46.4	62.0	31,000
500	5,000	SF-3000-AC	34.5	52.0	69.0	34,500
550	5,500	SF-3000-AC	38.0	57.0	76.0	38,000
600	6,000	SF-3000-AC	41.1	62.0	82.8	41,400
650	6,500	SF-3000-AC	44.8	67.2	89.6	44,800
700	7,000	SF-3000-AC	48.4	72.6	96.8	48,400
750	7,500	SF-4000-AC	51.8	77.7	103.6	51,800
800	8,000	SF-4000-AC	55.2	82.8	110.4	55,200
850	8,500	SF-4000-AC	58.6	87.9	117.2	58,600
900	9,000	SF-4000-AC	62.0	93.0	124.0	62,000
1000	10,000	SF-5000-AC	69.0	103.5	138.0	69,000
1100	11,000	SF-5000-AC	76.0	114.2	152.0	76,000
1200	12,000	SF-5000-AC	82.8	124.0	165.6	82,800
1300	13,000	SF-5000-AC	89.6	134.4		
1400	14,000	SF-5000-AC	96.8	145.2		
1500	15,000	SF-5000-AC	103.5	155.3		
2500	25,000	SF-6000-AC	173.0			

Sizing & Installation

All water used in boilers and heating systems must pass through the Superior Water Conditioner® to protect it from scale and corrosion.

The Superior Water Conditioner® is sized according to the maximum flow of water passing through the unit and should be installed in a vertical position in the feed line between the pump and the boiler check valve.

Maintenance Procedures

In systems with an existing scale or corrosion build-up, the Superior Water Conditioner® will gradually dissolve this build-up.

The system must be purged on a regular basis of the extra suspended/precipitated solids resulting from the gradual dissolution of the old scale and the newly added precipitated solids from the feed water. In systems where sludge cannot be removed through blow-downs, a high pressure hose can be used to flush out the excessive solids.

Occasional removal of the Superior Water Conditioner® unit for inspection and cleaning may be necessary in systems with existing corrosion build-up. This process should be performed once or twice a year and requires less than one hour each time.

These charts should only be used as a guide if actual capacity of feed pump is not known.

In order to stay abreast of all changes and innovations in the industry, Superior and/or their engineers maintain active memberships in the following organizations:



SUPERIOR MANUFACTURING DIVISION Magnatech Corporation

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