



# Cochrane® FilterX Softener

For Use With Fire Tube or Water Tube Boilers

## Cochrane® FilterX Softener Features

- Co-current, industrial grade ion exchange softener (Cochranex® CXA resin)
- Reduces raw water hardness from up to 200-ppm down to < 5 ppm
- Compact, high-flow design
- NSF or food-grade certified components
- Fully integrated system with vessel, media, piping and instrumentation pre-wired and pre-tested
- Rated for continuous or intermittent duty
- Automatically regenerated based on manual, time or metered flow demand



## Cochrane® FilterX Softener Design Advantages

- **Designed for many applications** including boiler feedwater, reverse osmosis pre-treatment, drinking water, produced water, food service applications, etc.
- Systems come fully **factory tested** at the **COCHRANE®** manufacturing facility
- Systems are fully pre-engineered for **quality assurance** and **fast delivery**



**COCHRANE**

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# Cochrane® FilterX Softener

For Use in Moderate to Low-Temperature Applications

## Included Components

- NSF certified epoxy coated 100-psig rated carbon steel vessel with top dome manway and side-shell hand hole accessways
- 48-inches of industrial grade gel-type strong acid cation softening resin (Cochranex® CXA resin, 8% DVB crosslinked, >93% sphericity, 1.6 uniformity coefficient) with gravel subfill
- Lug-style pneumatically actuated butterfly valves with stainless steel disc & stem, EPDM seat, steel body and two-way NEMA 4 UL certified 24V solenoid
- NSF certified paddlewheel-style flowmeter with polypropylene body (> 100 psig rated up to 120°F), FKM O-rings, Titanium pin, PVDF rotor, UL certified
- Schedule 80 PVC piping, eductor, upper flow distributor and underdrain collector (separate PVC brine distributor on 60-inch softener)
- Feed and discharge pressure gauges (2.5" dial, stainless case, glycerin filled)
- Manual PVC vessel drain and vent ball valves
- Epoxy-coated carbon steel supports for face piping
- Polyethylene tank-based brine saturator complete with gravel bed, PVC underdrain lateral, automated fill valve and level switch controls

Model Code	Rating (gpm)	Inlet Size	Tank OD	Tank SS	Resin Volume (ft3)	Capacity (Kilograins)
CXWS-30	95	3"	2'-6"	6'-0"	19.6	550
CXWS-36	140	4"	3'-0"	6'-0"	28.3	795
CXWS-42	190	4"	3'-6"	6'-0"	38.5	1080
CXWS-48	250	6"	4'-0"	6'-0"	50.3	1410
CXWS-54	315	6"	4'-6"	6'-0"	63.6	1785
CXWS-60	390	6"	5'-0"	6'-0"	78.5	2200

Note: Capacity is based on regeneration with 10 lbs. salt per cubic foot of resin

## Options Available

- Epoxy coated steel skid
- ASME code stamped vessels
- Brine centrifugal pump with titanium wetted parts
- Substitution of flowmeter for magnetic type flowmeter
- Stainless steel piping
- Stainless steel internals
- Online hardness monitor
- Seismic zone rated
- PLC based control panel with touchscreen and ethernet communication capability



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