

# GravFlex™ Softeners



Graver's Flex Softeners have proven their ability to meet any water softening problem efficiently and economically in a wide range of commercial and industrial plants.

GravFlex softeners are available in any convenient size, and with valve arrangements and control options to meet any custom or special requirements.

Other applications such as dealkylation or decarbonization are also available using specialty ion exchange resins.

## Standard Design Features

- Exchange Media: Strong Acid, Cation Resin, Gel Matrix, Sodium Form
- Vessel:
  - Internal Finish: Blast SP5, NSF Epoxy Lining 10-16 MILS DFT
  - External Finish: Blast SP6, Tnemec N69F - Safety Blue
  - ASME Designed and Commercially Rated 100psig/120°F
  - Side and Top Manways (Handways 24"-36" Diameter)
  - Structural Steel Leg with Pads, Lifting Lugs, Strap Legs (24"-36" Diameter)
- Distribution:
  - Splash Plate Upper Distributor
  - Hub and Radial Lower Collector (24"-36" Diameter) with Wellscreen Over Radials
  - Header Lateral Lower Collector (42"-120" Diameter) with Wellscreen Over Laterals
  - Header Lateral Brine Distributor (42"-120" Diameter)
- Brine: Eductor Station and PE Brine Tank available (24"-66" Diameter)
- Valves: Resilient Seat Butterfly Valves with Pneumatic Actuators, EPDM Seats, SST Disc/Stem Backwash Flow Control - Limit Open Stops
- Instruments: Inlet/Outlet Pressure Gauges
- Controls: 110V/60Hz/1PH Local Solenoid Enclosure, NEMA 4

## Optional Design Features

- Ratings: ASME Code, Seismic Anchoring, ASME B31.1 Face Pipe, NEMA 4X, CRN
- Process: Duplex, Triplex, Additional Sideshell up to 96" for Added Exchange Capacity, Media Transfer Ports
- Internals: 316 Upper and Lower Distribution Systems
- Pipe: 316 SS Face Pipe (Standard on 96"-120" Diameter)
- Media: Strong Base Anion Resin, Weak Acid Cation
- Brine: Brine Pump Skids and Brine Silos
- Valves: ASME Pressure Relief (Thermal), Limit Switches, Auto Backwash Flow Orifice Available 24"-72" Diameter
- Instruments: Bi-directional MAG Meter, Differential Pressure Transmitter, Hardness Meter
- Controls: PLC, HMI, NEMA 4X, UL, cUL

## Typical Applications:

- **Hardness Reduction**
- **Reverse Osmosis Pretreatment**
- **Low Pressure Boiler Pretreatment**
- **Reverse Osmosis Polishing for High Pressure Boilers**

## SPECIFICATIONS

Model No.	Flow Rates (GPM)			Exchange Capacity (Grains)	Vessel and Tank Size (in)			Resin Volume (cu.ft)	Pipe Size (in)		Face Pipe & Internals
	Service		BW		Softener	Brine Tank	Salt Storage (lbs)		Service	Waste	
	Min.	Max.									
Soft-24x60S	9	47	20	344,203	24" x 60"	30" x 48"	1100	11.5	2	2	PVC or 316 SS
Soft-30x60S	15	74	32	550,941	30" x 60"	30" x 48"	1100	18.4	2	2	PVC or 316 SS
Soft-36x60S	21	106	46	811,954	36" x 60"	42" x 60"	2500	27.1	2	2	PVC or 316 SS
Soft-42x60S	29	144	63	1,130,242	42" x 60"	42" x 60"	2500	38	3	3	PVC or 316 SS
Soft-48x60S	38	189	82	1,508,805	48" x 60"	66" x 46"	4200	50	3	3	PVC or 316 SS
Soft-54x60S	48	239	103	1,947,643	54" x 60"	66" x 46"	4200	65	3	3	PVC or 316 SS
Soft-60x60S	59	295	128	2,452,757	60" x 60"	82" x 60"	6700	82	4	4	PVC or 316 SS
Soft-66x60S	71	356	154	3,027,145	66" x 60"	82" x 60"	6700	101	4	4	PVC or 316 SS
Soft-72x60S	85	424	184	3,673,808	72" x 60"	Optional Brine Pump Skid with Brine Silo Recommended		122	4	4	PVC or 316 SS
Soft-78x60S	100	498	216	4,392,823	78" x 60"			146	6	6	PVC or 316 SS
Soft-84x60S	115	577	250	5,193,045	84" x 60"			173	6	6	PVC or 316 SS
Soft-90x60S	133	663	287	6,075,419	90" x 60"			203	6	6	PVC or 316 SS
Soft-96x60S	151	754	327	7,037,210	96" x 60"			235	6	6	316 SS
Soft-108x60S	191	955	414	9,222,728	108" x 60"			307	6	6	316 SS
Soft-120x60S	236	1,178	511	11,782,013	120" x 60"			393	6	6	316 SS

Notes: Exchange capacity nominally based on 30,000 grains/cf and 15#/cf brine.

## Contact Us

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