

Crusader Estate Series

1.25" Water Softeners & Filters



Homeowner Benefits

- Higher Flow rates for larger residences
- On-demand electronic metered design
- Modular platform for easy service & repair
- Salt-saving and Water-efficient technology
- ProGuard feeder included for complete protection
- Twin, Triple, and Quad configurations available

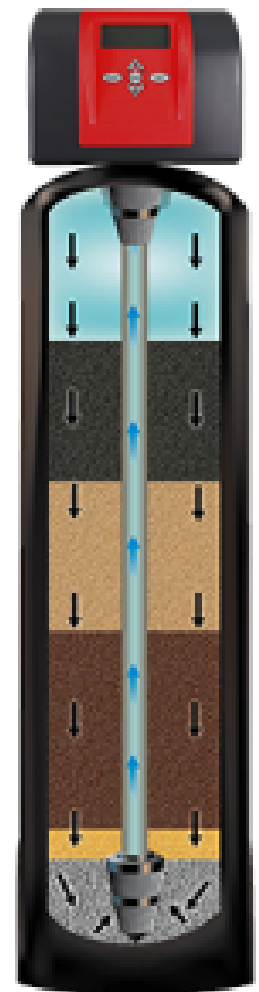
Crusader Estate Series Overview

The Crusader Estate Series offers higher flow rates for larger homes, without the extra costs of a Commercial configuration. Our systems bring high flow rates and advanced water treatment technology to your home.

Crusader Iron filters and pH neutralizers are built to treat your water and protect pipes, faucets, water heaters, boilers and all appliances requiring the use of water. Our product lines eliminate blue-green staining associated with low pH water, remove iron, sediment, color, unpleasant odors and even improve the taste of your water.

Crusader Carbon filters contain ChlorZorb and Catalytic carbon to address a broad range of contaminants that could be in your water. Chlorine, Chloramine, tastes, odors, and organic materials are effectively addressed by a Crusader Filter.

All Crusader Systems are constructed with high-quality American-made components to assure durability and long product life. All of this, along with a simple design, easy maintenance, and low operating costs makes for a perfect system



Crusader Estate Systems

- Complete diagnostic information and valve history data stored in non-volatile memory
- Treated water brine refill - "Dry Brining"
- Two independent relay driver outputs
- ProGuard feeder
- 12-volt DC battery operation available
- Fully programmable regeneration cycle sequence (maximum of nine steps)
- Stores system configuration and operation data in non-volatile memory - will not be lost during a power outage.
- Time-of-day battery backup with up to 8 hours of RTC
- Screen displays "low battery" when battery needs to be replaced
- Variable reserve automatically adjusts to changing water usage patterns
- Double regeneration option available

TWO TANK		CS-125-100	CS-125-150	CS-125-200	CS-125-300	CS-125-400
Grain Capacity	High	32,000	48,000	64,000	96,000	128,000
	Medium*	24,000	36,000	48,000	72,000	96,000
	Low	17,000	25,500	34,000	51,000	68,000
Resin	Cu. ft.	1.00	1.50	2.00	3.0	4.0
	Lbs.	52	78	104	156	208
Mineral Tank Size (in.)		10x40	10x54	12x48	14x65	16x65
Brine Tank Size (in.)		15x17x36	15x17x36	15x17x36	24x50	24x50
Brine Tank Capacity (lbs.)		275	275	275	800	800
LBS NaCl	High	15.0	22.5	30.0	45.0	60.0
	Medium	8.0	12.0	16.0	24.0	32.0
Regeneration	Low	4.5	6.75	9.0	13.5	18.00
Service Flow Rate (gpm)		22	22	23	24	25
Backwash Rate (gpm)		1.7	1.7	2.7	4.2	6.5
Pipe Size (in.)		1.25	1.25	1.25	1.25	1.25
Min.-Max. Pressure (psi)		20-100	20-100	20-100	20-100	20-100
Min.-Max. Temperature (°F)		35-100	35-100	35-100	35-100	35-100

* Factory settings

† At 15 psi pressure drop



MADE IN THE USA

Model Number	Tank	Service GPM		Backwash GPM
Color, Taste & Odor (Carbon) Filters		Cont.	Peak	
CS-125F-CT-2	13x48	9	11	10
CS-125F-CT-3	14x65	12	14	10
CS-125F-CT-4	16x65	15	17	15
Sediment/Turbidity (Filter AG) Filters				
CS-125F-DAN-1.5	10x54 (with dome hole)	8	11	6.5
CS-125F-DAN-2	13x48 (with dome hole)	9	12	10
CS-125F-DAN-3	13x65 (with dome hole)	12	14	10
CS-125F-DAN-4	16x65 (with dome hole)	15	17	15
Iron (Oxygen Regeneration) Filters				
CS-125F-IM-2	13x48	9	11	10
CS-125F-IM-3	14x65	12	14	10
CS-125F-IM-4	16x65	15	17	15
Iron (Potassium Permanganate Regeneration) Filters - KMnO4				
CS-125F-PIM-2	13x48	7	11	11
CS-125F-PIM-3	14x65	12	14	11
CS-125F-PIM-4	16x65	15	17	15

Acid Neutralizers

Crusader's acid neutralizers correct low pH water, protecting your pipes, faucets, heaters, boilers, and all water-using appliances. A water softener may also be required to remove added hardness.

Sediment/Turbidity (Multimedia)

Crusader's sediment filter will remove dirt, silica, and most suspended matter from your water supply down to a 20 micron filtering level. Requires no chemical regenerant - just a simple, periodic backwash.

Carbon Filters - ChlorZorb & Catalytic

Crusader's carbon filter, through filtration, absorption, and adsorption, remove chlorine, chloramine, organic chemicals and other contaminants which cause color, tastes and odor problems.

Iron Filters (Oxygen) & (KMnO4)

Crusader's iron filters remove iron and manganese, also filter out other suspended matter, prevent rust stains on clothing, appliances and remove taste and color from iron. When sulfur is present, Potassium Permanganate (KMnO4) regenerating systems are recommended.

