



Water Softener Solutions for Hard Water

ACS - HC Series with Multiple Tanks for 62 - 250 gpm Commercial Applications

Model ACS - HC with Fleck Control Valve

Standard Features:

- Up to 250 GPM continuous flow for heavy commercial applications.
- Multiple tank (alternating or interlocking) for continuous softening and filtration.
- Lead-free brass valve.
- Metered initiated regeneration to reduce water and salt consumption.
- Fully adjustable 5-cycle control delivers controlled up-flow backwash, downflow brining, slow rinse, rapid rinse and downflow service.
- Operational no hard water bypass during regeneration.
- No hard water bypass.
- NEMA-3R cover for weather resistance.
- Sizes up to 100 cu. ft. of media.
- 3" FNPT Connections.
- Brine tank safety float.

Options:

- High-flow bypass valve
- High-flow distribution system
- Backwash filter
- Soft-water brine refill
- Variable reserve
- Metered with regeneration override
- Manual operation
- Double backwash
- Auxiliary switch
- Fill first (dry salt storage)



All of the ACS systems offered by Aqua Clear are designed and manufactured to meet the rigorous requirements of commercial and industrial water purification applications.

Systems are available for a variety of applications and flow rates. Common applications include, Pharmaceutical Production, Power Generation, Chemical Processing, Electroplating, Food and Beverage Manufacturing, Hotels and Restaurants, Agricultural and Livestock Water Purification, etc.

Aqua Clear Water Treatment Specialists

The Clear Choice for Commercial and Industrial Water Treatment Systems and Services

4920 Silverton Avenue • San Diego, CA 92126 • Ph. 858.270.7655 • Fx. 866.291.0742
www.aquaclearllc.com

Aqua Clear ACS-HC Series of Heavy Commercial Water Softeners - Twin Tank

Part Number	Media Capacity (cf)	GPG Capacity @ 5 lbs/cf	GPG Capacity @ 15 lb per cf	Mineral Tank Size (dia x height)	Brine Tank Size (dia x height)	Salt (pounds)	Peak gpm (est)	Service Flow gpm (est)
ST-240K-2460x2-3060	16	160,000	240,000	24x60 (Qty 2)	30x60	1500	100	62
ST-300K-2472x2-3948	18	200,000	300,000	24x72 (Qty 2)	39x48	2200	100	62
ST-450K-3072x2-3960	30	300,000	450,000	30x72 (Qty 2)	39x60	2600	150	98
ST-600K-3672x2-4260	40	400,000	600,000	36x72 (Qty 2)	42x60	3000	185	141
ST-750K-4272x2-5060	50	500,000	750,000	42x72 (Qty 2)	50x60	4500	200	192
ST-1050K-4872x2-5060	70	700,000	1,050,000	48x72 (Qty 2)	50x60	4500	215	215
ST-1500K-6386x2-7260	100	1,000,000	1,500,000	63x86 (Qty 2)	72x60	8500	240	240

Fleck 3900 Commercial Control Valve

Aqua Clear uses the Fleck Model 3900 Commercial Control Valve and Network Controller for all of our ACS-HC Series Commercial Water Softeners.



3900 Control Valve

3900 Controller



Fleck 3900 Control Valve Specifications

Continuous Flow (15 psi drop)	250 gpm
Peak Flow (25 psi drop)	325 gpm
Max. Backwash (25 psi)	100 gpm
Distributor pilot	3" O.D.
Drain line	2" NPTF
Injector brine system	1"
Height from top of tank	15'
Electrical rating	24 v, 110 v, 200 v 50 Hz, 60 Hz
Pressure	Hydrostatic: 300 psi Working: 20 - 125 psi
Temperature	34° - 110° F
Downflow/Upflow	Both
Adjustable Cycles	Yes
Meter Accuracy	7 - 300 GPM +/- 5%
Meter capacity range (gal.)	NXT: 9,900,000

Since 1994, Aqua Clear Water Treatment Specialists has provided water treatment systems and services for commercial and industrial applications. We offer a wide range of filtration solutions, including custom built Reverse Osmosis (RO) and Nanofiltration systems. We also offer cleaning and water treatment services for Cooling Towers, Boilers and Closed-loops.

For more information about the ACS-HC Series of Heavy Commercial Water Softeners, or to learn more about any of our other products and services, please contact us today.



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Fleck 3200NXT Network Controller



The 3200NXT Network Controller uses on-board communication capabilities to link multiple commercial valves (via off-the-shelf CAT3, CAT5, or better cables) for a variety of system types. The 3200NXT is configured for use with Fleck® 2750, 2850s, 2900s, 3150, and 3900 Control Valves, and also supports stager valves using butterfly or notched cams.

Features

- 2x16 character backlit LCD display
- Networks up to four valves
- Field-configurable for System Types 4, 5, 6, 7, and 9
- Auxiliary inputs and outputs
 - Remote signal start input
 - Remote lockout input
 - Programmable relay output/chemical pump output
- Easy installation with plug-in wiring harnesses
- Front panel diagnostics button
 - Flow rate
 - Peak flow rate
 - Totalizer
 - Hours between last two regenerations
 - Hours since last regeneration
 - Adjustable volume remaining
 - Valve position
 - Software version
- Easy time of day adjustment
 - Simply push the up or down button on the lead (#1) controller; time of day is automatically copied to the remaining controllers
- Five configurable cycle steps
- Remote signal start can be used simultaneously with time clock, meter immediate, or meter delayed regeneration triggers
 - Allows monitoring of flow and volume information in RSS applications

Three programming levels

- User mode
- Master programming
- Diagnostics mode

System Types

System 4	Single Valve	Time Clock	No Meter
		Delayed	One Meter
		Immediate	One Meter
System 5 (Interlock)	2 - 4 Valves	Remote Signal Start	Optional Meter
		Immediate	All Meters
		Remote Signal Start	Optional Meter
System 6 (Series)	2 - 4 Valves	Immediate	All Meters
		Remote Signal Start	Optional Meter
		Remote Signal Start	Optional Meter
System 7 (Alternating)	2 Valves	Immediate	One Meter
		Remote Signal Start	Optional Meter
		Remote Signal Start	Optional Meter
System 9 (Alternating)	2 - 4 Valves	Immediate	All Meters
		Remote Signal Start	Optional Meter
		Remote Signal Start	Optional Meter

Regenerant Flow

Downflow, Upflow Brine First, Upflow Brine Refill First

Generic Meter Guidelines

Open collector output.

Pulse rate generated must not exceed 100 pulses per second (100 Hz), or 6,000 pulses per minute.

Support for meter outputs in the range of 1-255 gallons (25.5 m³) for every 1-255 pulses. Example: 35 gallons/100 pulses (= 3.5 gallons/10 pulses, = 0.35 gallons/1 pulse).

Meter must operate at 5 VDC.

Electrical Rating

24 VAC Pentair® Transformers:
115 VAC +/- 20% input, 24 VAC output
230 VAC +/- 20% input, 24 VAC output

Humidity

95% RH, Non-Condensing



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