

# Luxury Water

## 2850 SERIES

**MAKING WATER SOFT FOR OVER 30 YEARS  
NOTHING BEATS THE FEEL OF LUXURY**

### THE AUTOMATIC WATER CONDITIONER THAT GIVES YOU MORE!

2850 XT SERIES



- 1-1/2" control valve ideal for smaller size commercial/industrial applications
- Fully adjustable 5 cycle control delivers controlled upflow backwash, downflow brining, slow rinse, rapid rinse and downflow service
- Time tested hydraulically balanced piston, seal and spacer concept to pilot service flow and regeneration
- Solid, lead free brass valve body for superior strength and durability
- Consistent brining regardless of salt levels with timed brine refill
- Available with 7 or 12 day clock, mechanical or electronic XT meter (shown) (Meter information on reverse side)
- 100% non metallic pressure vessel will not chip or corrode
- Salt storage tank features a blow molded one piece design with a one piece blow molded cover

Models	FC-75-2850	FC-90-2850	FC-120-2850	FC-150-2850	FC-180-2850	FC-210-2850	FC-240-2850	FC-300-2850
Exchange Capacity Per Tank Grain @ lb. Salt	Min. 50,000 @ 15	Min. 60,000 @ 18	Min. 80,000 @ 24	Min. 100,000 @ 30	Min. 120,000 @ 36	Min. 140,000 @ 42	Min. 160,000 @ 48	Min. 200,000 @ 60
	Med. 60,000 @ 20	Med. 72,000 @ 24	Med. 96,000 @ 32	Med. 120,000 @ 40	Med. 144,000 @ 48	Med. 168,000 @ 56	Med. 192,000 @ 64	Med. 240,000 @ 80
	Max. 75,000 @ 38	Max. 90,000 @ 45	Max. 120,000 @ 60	Max. 150,000 @ 75	Max. 180,000 @ 90	Max. 210,000 @ 105	Max. 240,000 @ 120	Max. 300,000 @ 150
Resin (CU Ft) Per Tank	2.5	3.0	4.0	5.0	6.0	7.0	8.0	10.0
Mineral Tank Size	13" x 54"	14" x 65"	16" x 65"	18" x 65"	21" x 62"	21" x 62"	24" x 72"	24" x 72"
Brine Tank Size Salt Storage	18" x 40" 450 lbs.	24" x 41" 550 lbs.	24" x 50" 700 lbs.	24" x 50" 700 lbs.	24" x 50" 700 lbs.	24" x 50" 700 lbs.	24" x 50" 700 lbs.	24" x 50" 700 lbs.
Pipe Size	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"
Flow Rate (Cont. 15 psi)	29	30	33	35	45	39	42	40
(Peak 25 psi)	40	42	45	48	54	52	56	54
Backwash Rate	4.0 gpm	5.0 gpm	7.0 gpm	9.0 gpm	12.0 gpm	12.0 gpm	15.0 gpm	15.0 gpm

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**PRODUCTS OF**





The XT advanced electronic controller is available for single control valve operation.

In Time Clock Delay mode, the XT will display the number of days until the next scheduled regeneration. Some meter delayed types will display the volume remaining (SRV) minus the reserve. Once the volume remaining is zero, the display will start counting down the reserve volume and queue (RGQ) regeneration.

## Features

- Time of day backup for up to 12 hours of power loss
- Calculating Reserves:
  - Daily Variable - adjusts reserve based on previous day's water usage*
  - Day of Week - adjusts reserve for each day of the week based on an average of the last three weeks*
- LED Status Indicator:
  - Blue: In Service*
  - Green: In Regeneration*
  - Red: Error with codes*
- New shift key (left arrow) for digit selecting, allows faster programming
- 2 Line/16 character LCD backlit display
- Defaults for all valve, piston, and cam types are stored
- Diagnostics:
  - Current Flow Rate*
  - Peak Flow Rate (can be reset)*
  - Totalizer ( can be reset)*
  - Hours between Last two Regenerations*
  - Hours between Last Regeneration*
  - Volume Remaining (Adjustable)*
  - Previous Days Usage*
  - Reserve Volume*
  - Software Version*

## System Type

Meter Delayed Weekly Reserve	Single Valve
Meter Delayed Variable Reserve	Single Valve
Meter Delayed Fixed Reserve	Single Valve
Meter Immediate	Single Valve
Remote Signal Start Delayed	Single Valve
Remote Signal Start Immediate	Single Valve
Time Clock Delayed	Single Valve
Twin Tank	Single Valve
Volume Override Delayed	Single Valve
Volume Override Immediate	Single Valve

## Generic Meter Guidelines

Meter power supply is +19V DC, up to 10 mA. 01-150 pulses per gallon/liter output. Open collector output, board will sink up to 10mA at 5V DC. Pulse rate generated must not exceed 100 pulses per second (100 Hz) or 6,000 pulses per minute

## Electrical Rating

24V Pentair transformers:  
115V AC +/- input, 24V AC output

## Humidity

95% RH, Non-condensing

## Two Programming Levels

User Mode:

- Water Hardness
- Regeneration Day Override
- Regeneration Time

Master Programming:

- System Type
- Valve Type
- Regenerant Flow
- Display Format
- Unit Capacity
- Capacity Safety Factor
- Water Hardness
- Regeneration Day Override
- Regeneration Time
- Cycle Steps
- Auxiliary Relay Outputs
- Flow Meter Sizes

## Options

- Programmable auxiliary relay output:
  - Dry contact Relay (fused at 3 amps)
  - Program entire Regeneration
  - Two programmable time windows during regeneration
- Remote Lock
- Programmable for Fleck® or generic meters

## Meter Specifications

METER SIZE	Connections Inlet/Outlet	ACCURACY (±5%) RANGE (gpm)	Mechanical	
			CAPACITY RANGE STANDARD (gals)	CAPACITY RANGE EXTENDED (gals)
1" Mechanical (Fleck)	1"M x 1"F	0.70 - 40.0	310 - 5,270 (gallons)	1,150 - 26,350 (gallons)
1" Electronic (Fleck)	1"M x 1"F	0.70 - 40.0		1 - 999,999 (grains)
1-1/2" Mechanical (Fleck)	1-1/2"M x 1-1/2"F	1.50 - 75.0	625 - 10,625 (gallons)	3,3125 - 53,125 (gallons)
1-1/2" Electronic (Fleck)	1-1/2"M x 1-1/2"F	1.50 - 75.0		1 - 999,999 (grains)
1-1/2" Electronic (Clack)	1-1/2"M x 1-1/2"F	0.50 - 75.0		1 - 999,999 (grains)