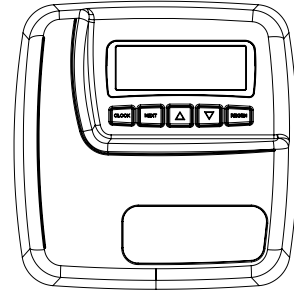


# A Homeowner's **Quick Start Manual** for WS1 - CH Units



***Congratulations on the purchase of your new water conditioner featuring the CH control system. You will have peace of mind knowing your system will bring you years of conditioned water use and enjoyment.***

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**Eliminates** Stains, Scale Deposits, Soap Scum, Clogged Plumbing, Dissolved Minerals

**Enjoy:** Longer service life of water using appliances (up to 30%), using less detergents, soaps, and harsh cleaners, better lathering of soaps, cleaner dishes, towels, linens, clothes, Softer skin and hair

**Features:** High flow rates, highest efficiency, state of the art electronics, safe low voltage operation, Energy Saver display



## MANUAL OVERVIEW

### How To Use This Manual

This Owner's Manual is designed to provide the homeowner with basic information and instructions on the residential water conditioner and control packaged with this manual.

This manual does NOT include instructions regarding installation, setup, services, or troubleshooting of the control valve or other components of a residential water conditioning system. Please contact your local Water Treatment Professional with questions or concerns about the operation or performance of your water conditioning system. Keep this manual with other valuable manuals and documents for future reference.

### General Warnings

- There are no user serviceable parts in the AC adaptor, motor or controller. DO NOT attempt to remove or repair individual components.
- Use ONLY the power transformer supplied with this water conditioning system.
- The power outlet MUST be grounded and always on. If it is necessary to disconnect power, unplug the AC adaptor from its power source first.
- Only fill the brine tank with salt designed for water softening. (Either sodium chloride or potassium chloride may be used but should not be combined.)
- Ambient temperature surrounding the system should be between 35°F (1°C) and 120°F (49°C)\*
- Water temperature flowing through the system should be between 35°F (1°C) and 100°F (38°C)\*
- Installation must conform to all state and local plumbing code(s), including electrical.

*\*If installation is located outdoors, protection from freezing conditions should be considered.*

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### ORIGINAL INSTALLATION INFORMATION

Dealer Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Installation Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Install location: \_\_\_\_\_

Model No: \_\_\_\_\_

Serial No: \_\_\_\_\_

Water Test: Hardness \_\_\_\_\_ TDS \_\_\_\_\_ pH \_\_\_\_\_ Other \_\_\_\_\_

Water Source: City ☐ Well ☐ Other ☐

Unit Capacity: Max \_\_\_\_\_ Min \_\_\_\_\_ Per Regeneration

Mineral Tank Size: Diameter \_\_\_\_\_ Height \_\_\_\_\_

Brine Tank Size: Diameter \_\_\_\_\_ Height \_\_\_\_\_

Salt Setting Per Regen: \_\_\_\_\_ lbs

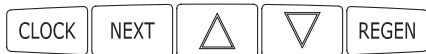
Time of Regeneration: \_\_\_\_\_ AM ☐ PM ☐

DLFC: \_\_\_\_\_ GPM

Fill Rate: \_\_\_\_\_ GPM (0.33 unless otherwise specified)

Injector #/Color: \_\_\_\_\_

## GENERAL SYSTEM INFORMATION



*(If light is set to "off", press any button to light up display, then...)*

Press and release NEXT to scroll through:

- Time of Day
- Current flow rate (GPM)
- Capacity Remaining (gallons)
- Days Remaining to Regeneration (if programmed)

### Setting Time of Day - Initiating a Manual Regeneration

#### Setting the Time of Day - Start-up or Power Outage

*(If light is set to "off", press any button to light up display, then...)*

- Press CLOCK to set time of day, hour (XX:00)
- Press CLOCK again to set time of day, minutes (00:XX)
- Press NEXT to return to Time of Day display (normal)

Time of Day will need to be reset only if power is lost for greater than 8 hours. (Your system has a battery back-up.) If power is lost during a regeneration, the control will complete the regeneration at the point of interruption once power is restored.

### Manual Regeneration (Immediate)

If higher than average water usage is anticipated, a Manual Regeneration can be initiated:

- Press and hold (3-4 seconds) the REGEN button. A Manual Regeneration will start immediately.

### Manual Regeneration (Delayed)

To delay a Manual Regeneration until the normal regeneration time (typically 2:00 am):

- Press and release the REGEN button. To cancel prior to regeneration time, press and release the REGEN button a second time.

*(Note: during any Manual or Normal Regeneration, untreated water may flow through the unit if required)*

### Bypassing the Water Conditioning System

A bypass should be installed on all water conditioning systems. A bypass isolates the conditioner from the home's water system and allows unconditioned water to be used in the home while the conditioner is undergoing service, routine maintenance, if the conditioner is experiencing performance issues, or if any leak is detected. The bypass valve is located directly behind the control valve and connects to the main line plumbing.

- NORMAL position for the bypass (flow through the conditioner, to the house) is shown in Figure 1. The small, red handles are parallel with the inflow and outflow plumbing.
- To BYPASS the conditioner, turn both small red handles until they are in the position in Figure 2.
- To return the bypass to the NORMAL position, turn both small red handles to the position shown in Figure 1.
- If your water conditioning system is placed in BYPASS, immediately contact your Water Treatment Professional.

Figure 1

#### NORMAL OPERATION

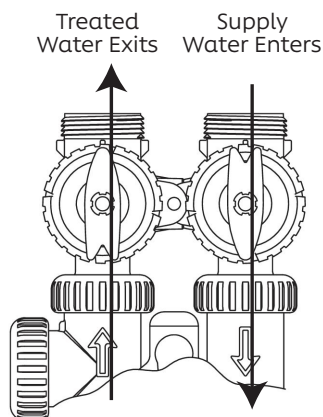
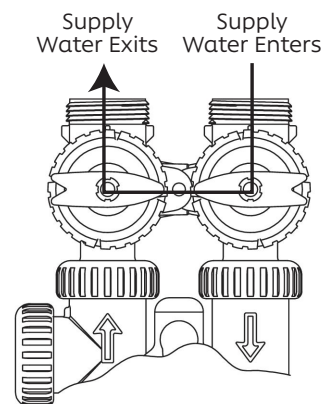


Figure 2

#### BYPASS OPERATION



## BASIC TROUBLESHOOTING

### Error Codes

Error codes are rare. The most common causes are power supply (brown out, etc.). If any error message appears, contact your Water Treatment Professional immediately.

### Leaks

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If there is a leak on or by your water conditioner, put the unit in BYPASS (see "BYPASSING THE WATER CONDITIONING SYSTEM" section on previous page) and contact your Water Treatment Professional immediately.

### Hard Water

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If you believe you do not have "soft" water:

- Verify unit is plugged in, the outlet has power, and that the display is on, either gray LCD (light "Off") or blue LED (light "On").
- Make sure the Bypass is in the NORMAL position. If the bypass valve is in the BYPASS position, return it to the NORMAL position. (See "BYPASSING THE WATER CONDITIONING SYSTEM" section on previous page).
- Check the brine tank for adequate salt (sodium chloride or potassium chloride). The "dry" salt level should be above the water level. If it is not, add enough salt to cover the water, wait approximately 20 minutes, then initiate a Manual Regeneration, either immediate or delayed. (See "SETTING TIME OF DAY - INITIATING A MANUAL REGENERATION")
- Make sure the Time of Day is set correctly. If not, set the correct time of day (see "SETTING TIME OF DAY - INITIATING A MANUAL REGENERATION") section.

### Additional Issues

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- Unit used too much salt
- Loss of water pressure
- Staining with conditioned water
- Excessive water in brine tank

*The above issues and other concerns not listed in this manual should be addressed with your Water Treatment Professional.*



Charger Water Treatment Products  
8150 N. Lehigh Ave, Morton Grove, IL 60053  
[www.chargerwater.com/FAQ](http://www.chargerwater.com/FAQ)