



WATER DOCTORSSM

CUSTOM ENGINEERED WATER SYSTEMS



Infinity IXT Meter/Demand Controller

Programmable digital demand controller
High flow threshold detection

Three Piece Filter/Media Tank

Inner liner of polyethylene
Outer layer of Poly Glass
Dished stainless steel cover

pH Neutralizer

Optional adjustment of pH to
aggressive or soft water

Stratified Microsize Carbon

Finely ground coconut shell carbon
has more surface area for longer bed life
lighter weight has less unchangeable media
maintaining filter bed depth after backwash

High Efficiency Resin

Leaves Salt per Regeneration,
Faster and more even kinetics
Leaves Chlorination residuals,
Large molecule



Biochemical KDF 55 & 85

High purity copper-zinc granules that reduce contaminants
using oxidation / reduction (KDF) reduces/removes
Chlorine, Iron, Hydrogen Sulfide, Heavy Metals and inhibits
the growth of microorganisms in potable water
without the use of chemicals



We Deliver Salt

763-535-1800

WD-INFINITY- SERIES MANUAL

MODEL INFINITY 2510SXT

Installation and start-up manual:

WATER PRESSURE: A minimum of 20 pounds of water pressure is required for regeneration valve to operate effectively.

ELECTRICAL FACILITIES: An uninterrupted alternating current (A/C) supply is required. Note: Other voltages are available. Please make sure your voltage supply is compatible with your unit before installation.

EXISTING PLUMBING: Condition of existing plumbing should be free from lime and iron buildup. Piping that is built up heavily with lime and/or iron should be replaced. If piping is clogged with iron, a separate iron filter unit should be installed ahead of the water softener.

LOCATION OF SOFTENER AND DRAIN: The softener should be located close to a drain to prevent air breaks and back flow.

BY-PASS VALVES: Always provide for the installation of a by-pass valve if unit is not equipped with one.

CAUTION: Water pressure is not to exceed 120 psi. Water temperature is not to exceed 110°F, and the unit cannot be subjected to freezing conditions.

INSTALLATION INSTRUCTIONS

1. Place the softener tank where you want to install the unit making sure the unit is level and on a firm base.
2. All plumbing should be done in accordance with local plumbing codes. The pipe size for the drain line should be a minimum of 1/2". Backwash flow rates in excess of 7 gpm or length in excess of 20' require 3/4" drain line.
3. The 1" distributor tube (1.050 O.D.) should be cut flush with top of each tank.(Valve installation)
4. Lubricate the distributor O-rings seal and tank "o" ring seal. Place the main control valve on tank. Note: Only use silicone lubricant.
5. Solder joints near the drain must be done prior to connecting the Drain Line Flow Control fitting (DLFC). Leave at least 6" between the DLFC and solder joints when soldering pipes that are connected on the DLFC. Failure to do this could cause interior damage to the DLFC.
6. Teflon tape is the only sealant to be used on the drain fitting.
7. Make sure that the floor is clean beneath the salt storage tank and that it is level.
8. Place approximately 1" of water above the grid plate. If a grid is not utilized, fill to the top of the air check in the salt tank. Do not add salt to the brine tank at this time.
9. On units with a by-pass, place in by-pass position. Turn on the main water supply. Open a cold soft water tap nearby and let run a few minutes or until the system is free from foreign material (usually solder) that may have resulted from the installation. Once clean, close the water tap.

Start-up Instructions

10. Plug unit into an electrical outlet. Note: All electrical connections must be connected according to local codes. (Be certain the outlet is uninterrupted)
The water softener should be installed with the inlet, outlet and drain connections made in accordance with the manufacturer's recommendations and to meet applicable plumbing codes.

1. Remove control box cover.
2. Make "Time of Day" setting (See SXT control instructions).
3. Observe regeneration cycle settings.
4. Add three inches of water to brine tank.
5. **Note:** To set the control to the various positions noted below. (See SXT Controller)
Push the manual regeneration button. Allow the drive motor to move the piston to the first regeneration step and stop. Each time the Program Switch position changes, the valve will advance to the next regeneration step. Always allow the motor to stop before moving to the next position. (See "Program" instructions).

Control Valve Positions:

- a. Service Drive shaft out
- b. Backwash Drive shaft in
- c. Brine / Slow Rinse Drive shaft 1/2 way out
- d. Rapid Rinse Drive shaft 3/4 way out
- e. Brine Tank Fill Drive shaft out but brine cam holds brine valve stem in.

Filling the Tank:

**Slowly place the by-pass in service position (1/2 OPEN)
Let water flow into the mineral tank slowly.**

When water/carbon appears at drain line, close by-pass.

- (Carbon media will float to top of tank, let unit stand for 5 min)
Carbon will apply and water will be very dark, slowly open bypass 1/8 and continue water flow to drain for 1-2 minutes, then advance valve to service position.
(Open Bypass)
Open a cold water tap nearby and let run until the water is clear and carbon dust is purged from the unit.
6. Position valve to backwash and check to make sure that drain line flow remains steady for two (2) minutes or until clear (see above).
 7. Position valve to brine / slow rinse position and check to see that the unit is drawing water from brine tank (this step may need repeating).
 8. Position valve to rapid rinse and check the drain line flow, run for 5 min. or until the water is clear. (Note: Rapid rinse and backwash flow rates should be the same).
 9. Position valve to start of brine tank fill cycle. See that water goes into the brine tank at proper rate. Brine valve drive cam will hold valve in at this position to fill the brine tank for the first regeneration.
 10. Replace control box cover.
 11. Put salt in brine tank (do not use pellet or rock salt).



2510 SXT Control Timer

Service Manual



Filter change instructions:

Micropore Carbon media change