Elite High Flow
Water Softener System
Fleck 5810
Step 1 – Confirm All Product Components
Open your packages and confirm that you have received all the correct components. If you are missing any of the listed items below, please contact us at 602.222.9283. Or email us at support@602abcWATER.com

Start Here

Package Contents
1 – Mineral tank prefilled with water softening resin (48k & smaller)
1 – Brine tank with well & safety float, and 3/8” brine line
1 – Fleck 5810 xtr2 touchscreen digital metered valve
1 – Set of 1” threaded adapters
1 – Bypass valve
1 - Blue bag with small install kit (lubricant & sanitizer)

* Not included but required – Salt, Teflon tape, fittings to connect softener to your plumbing & ½” I.D. (5/8” O.D.) rigid drain line.

Be sure to visit our website and our Youtube channel for installation resources to assist you during your install.

Phone: 602.222.9283 – Monday thru Friday 7am to 4pm Arizona time. You can text us with your questions. Text: 602.321.0145.
Valve to Mineral Tank

Step 2 – Plan Your Water Softener Location
Plan where to position your water softener. Here are your primary variables to plan around.

1. Position 9’6” from grounded electrical outlet to operate
2. Requires water drain for disposing of water
3. Access to home’s main water line or soft water loop

Step 3 – Begin Assembly: Fleck Valve to Mineral Tank

1. Apply silicone lubricant to small inner O-ring. Turn valve over and locate.

2. Attach the top basket to the bottom of the Fleck 5600sxt valve. Insert large end of basket into groove and turn clockwise into locking position.

3. Apply a thin layer of lubricant to large ‘O’-ring located outside of threads.

4. Connect the Fleck valve to the mineral tank. Be sure to carefully line up the top basket to the mineral tank’s distributor tube.

5. The distributor tube should fit inside the top basket. Once aligned, fasten the Fleck valve to the tank’s threads by turning clockwise. Hand tighten. Do this without holding the tank. It’s tight enough once the mineral tank begins to turn from your own force from tightening.
Valve & Bypass Assembly

Step 4 – Connect Bypass to Fleck Valve

1. Apply silicone lube to the 2 ‘o’-rings on the bypass valve. Once applied, slide bypass valve onto Fleck valve.

2. Fasten the bypass valve to the Fleck valve. Hand tighten each valve nut clockwise.

Step 5 – Fasten the Threaded Adapter to the Bypass

1. Lubricate the ‘o’-ring found on the threaded adapter.
2. Fasten the 2 nuts to the bypass by turning nuts clockwise.

Make Your Connections

Step 6 – Attach Drain Line to Fleck Valve

1. Locate drain line elbow
2. Tape the threaded connection point with 3-4 wraps of Teflon tape. Install provided plastic barbed fitting to this point.
3. Install drain line (not included) to this barbed fitting. Secure with a stainless hose clamp (not included). Drain line should extend to a main drain to dispose of waste water.
Step 7 – Connect Brine Line to Fleck Valve

1. Prep brine line prior to install using plastic nut, plastic ferrule & brass tube insert. Be sure to assemble in this order.

2. Connect the provided plastic nut to the Fleck valve. Hand tighten.

Step 8 – Connect Brine Well to Brine Tank Side Wall

1. Locate the pre-drilled hole on the brine tank. Fasten brine well to side wall of brine tank using the supplied white overflow elbow & plastic nut.

Step 9 – Connect Brine Line to Safety Float

You will receive 1 of 2 types of safety floats. One is a compression fitting connection and the other is a push-to-connect fitting. The compression fitting requires you to loosen the nut prior to inserting the brine line. Once the brine line is inserted, fasten the compression nut to secure the line in place. Push-to-Connect fittings secure the line by inserting the tube into the fitting until it slides into place and locks.
Step 10 – Connect Water Softener to Home Water Line

1. Connect your home water line to the input port of the Fleck valve labeled with ‘IN’ and an arrow pointing toward the valve.
2. Connect the opposite port with arrow pointing away from valve to the home’s incoming water line labeled ‘OUT’. Optional water connectors available.

Step 11 – Connect to Water Softener to Power Source

1. Plug in the Fleck 5810 to a power receptacle. Your power source should be less than 9’6” feet in distance from the Fleck valve.
2. Crack open bypass valves (IN & OUT sides) to begin filling tank. You will hear water filling. After a few minutes you will hear it quiet down. At this point you can open valves all the way.
4. Find nearest faucet and open cold water to let air escape from the water line. Let run for 5 to 10 minutes until clear.

Step 12 – Add Salt to Brine Tank and Fill with Water

1. Add 3 bags (150 lbs.) of salt pellets or rock salt.
2. Fill brine tank with approximately 5 gallons of water.

**Note during normal operations it is normal for the water level to be anywhere from 1/3 to 2/3 full of water, depending on the salt level at the time of regeneration.**
Programming

Final Step - Confirm or Adjust Programming

Your Fleck valve will come pre-programmed to our default settings. Here are the steps to confirm and adjust the primary settings. Start on home screen.

1. **Time of Day.** The default time of day is set to Arizona time. To adjust, press the ‘Day & Time’ button located on top left screen. Simply touch the number you want to revise.

2. Touch ‘Gear’ icon to confirm or adjust the ‘Day Override’, ‘Regeneration Time’, and ‘Hardness’.

3. **Day Override (DO).** We suggest and set your DO to 14 - 28 days (3 -6 people vs. 1 -2 people). Touch the button to adjust this setting to your preference. Touch the ‘Check’ to confirm and close.

4. **Regeneration Time (RT).** We suggest and set your RT to 2 a.m.. Touch the button to adjust this setting to your preference. Touch the ‘Check’ to confirm and close.

5. **Hardness (H).** We set your hardness to 20 grains. You can test your water with the supplied hardness test strip. Touch the button to adjust this setting.

The Fleck valve will recalibrate to treat for this hardness number. Touch the ‘Check’ to confirm and close.

Congratulations! Your water softener is programmed.
Our company is managed by water professionals with over 50 years of combined experience. Our goal is to provide you and your family with the best equipment available in the industry, offer a support experience that is second to none and have fair pricing that everyone can afford. If you have any questions about which equipment is right for your home, or have installation questions, give us a call.

We are located in Phoenix Arizona. We accept walk in orders from local residents. We offer support via email, phone, text, video chat or YouTube. Technical support is available Monday thru Friday between the hours of 7am to 4pm AZ time.

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Manual Overview

How To Use This Manual
This manual is designed to provide the homeowner with basic instructions on assembling your water softener.

This manual does not include instructions regarding service or troubleshooting of the valve, or residential plumbing. Please contact your local water treatment professional with questions or concerns about state and local codes. This manual can be found on our website.

Icons That Appear In This Manual
Failure to follow this instruction can result in personal injury or damage to the equipment.
NOTE: This will make the process easier if followed.

General Warnings
- ❖️ WARNING There are no user-servicesable parts in the AC adapter, motor, or controller. Do not attempt to remove or repair individual components.
- ❖️ WARNING Use only the power transformer supplied with this water conditioning system.
- ❖️ WARNING The power outlet must be grounded and always on. If it is necessary to disconnect power, unplug the adapter from its power source.
- ❖️ WARNING Only fill the brine tank with salt designed for water softening.
- ❖️ WARNING Ambient temperature surround the system should be between 35°F (1°C) and 120°F (49°C)
- ❖️ WARNING Water temperature flowing through the system should be between 35°F (1°C) and 100°F (38°C)

California Proposition 65 Warning
- ❖️ WARNING This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.