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3/4-1-2, CU. FT.

Carbon Filter Installation

- 1) **Select location for filter.**
 - Attach filter to the main water line prior to other equipment
 - By-pass any outside line that will not need treatment.
 - (1) 120 Volt electrical outlet must be near.
 - Floor surface must be level.
- 2) **Attach the noryl adapter to the back of the control valve using the black in and out nipples to make the connection.**
 - Use a small amount of silicone grease on the nipple O-rings to prevent damage. Secure with connector bars and screws. Use clevis in the top holes.
- 3) **Connect the filter.**
 - Plumb the main hard water line into the top 1" opening of the adapter. Plumb the soft line into the bottom 1" opening of the adapter.
- 4) **Install drain line.**
 - Install a 5/8" ID flexible tube for drain using a 1/2" barb fitting.
- 5) **Check the system for leaks.**
- 6) **Install Controller Hood.**
 - Remove stud from plastic bag and screw it into the tapped hole in the center of the lid of the control valve.
- 7) **Attach the solenoid harness to the control valve.**
 - Connect the red and white cable to the top solenoid coil.
 - Connect the green and white cable to the middle solenoid coil.
 - Connect the black and white cable to the bottom solenoid cable.
- 8) **Complete installation of controller hood.**
 - Place the hood over the top of the control valve and allow the stud to stick through the small hole in the top of the hood. Secure the hood with the black knob.
- 9) **Attach power cable to the outside two connections of the 12 volt transformer.**
 - Plug transformer into a continuously hot 120 volt electrical outlet.

Programming Carbon Filter Controller

- Standard Braswell control valve modified to eliminate brining functions. Number 13 backwash flow control is used to provide 5 gpm backwash flow rate.
- **INSTALL CARBON FILTER BEFORE SOFTENER**
- Carbon filter start up.
- Remove acrylic door from front of controller hood.

STEP 1 Set the clock:

Press the scroll button. A red light will appear next to "Set clock" press the up or down button under change value to set proper 24 hour time. The speed increases with the length of time the button is depressed.

STEP 2 Set backwash time:

Press scroll. The red light will move to "Set regeneration time" (Backwash). Press the up or down button to set the proper 24 hour backwash time. — ?

STEP 3 Set regeneration interval (Backwash):

Press scroll. The red light will move to "Set regeneration (Backwash) interval in days." Press the up or down button to set proper backwash interval (7 days).

STEP 4 Select tank size:

Press scroll. The red light will move to "Select tank size." Press the up or down button to select tank size. Leave the setting on 8X35 regardless of the size of the tank being programmed. This setting will provide approximately 15 minutes of backwash time.

STEP 5 Select pulse or non-pulse:

Press scroll. The red light will move to "Select pulse or non-pulse." Press the up or down button to select NO for non-pulse.

STEP 6 Set compensated hardness:

Press scroll. The red light will move to set compensated hardness. Press up or down button to set compensated hardness on 200. The display will read 11. This reading is not relevant.

STEP 7 Purge air from resin tank:

Press manual activate button to initiate a backwash cycle. It is very important to eliminate the air and fines from the resin tank to prevent color throw. When the system has completed the backwash cycle it will automatically return to service.

STEP 8 Return to service:

Press scroll to return to service at any time. Continue to press scroll until the display reads "end." during service the system will display gallons and time of day alternately every 5 seconds.