

## DIY Automatic Water Change System

Article by: Bitterman

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Parts for Drip water change system:

### LeeValley

- \$2.95 XC413 - 5 DRIPPERS, PRESURE-COMPISATING 1GPH
- \$11.50 XC310 - PRESSURE REGULATOR (attaches to garden hose attachment)
- \$5.75 XC307 - 1/4" 50' PVC FEEDER HOSE (I only used about 4')
- \$2.50 XC245 - 1/4" HOSE/FAUCET CONNECTOR

The following are only required if you are doing more than 1 tank/Dripper.

- \$1.70 XC233 - (10)1/4" T-Connectors
- \$1.95 XC341 - (20) Hole Plugs (Used it you want to turn off a dripper and still use others.)

### Canadian Tire

- 1/4 HP sump pump with float switch.
- Hose to attach sump pump to remove water

### Optional

- Get a timer to reduce the amount of water that is changed over in the tank per week

### **Method:**

1. Install a garden hose tap somewhere close to the fish tank if you don't already have one.
2. (Optional Step) install a garden water timer on the facet to decrease water dripper hours.
3. Attach XC310 - PRESSURE REGULATOR to the garden hose faucet
4. Attach XC245 - 1/4" HOSE/FAUCET CONNECTOR to the pressure regulator
5. Cut a piece of the XC307 - 1/4" 50' PVC FEEDER HOSE. I only used about 4' and push it into the end of XC245
6. Put 1 XC413 - 1 GPH Dripper into the end of the hose.
7. Mount the Dripper so it drips into the tank
8. Hook the sump pump up such that it pumps excess water out or you sump out you sump pump hole (You could also put it down a drain need the tank)
9. Turn on the water and tune the levels in you sump tank. Ensure you watch this very closely otherwise you could have a flood.

Mine is running full out so 1 GPH x 24 Hours X 7 days = 168 Gallons per week turn over. So for a 90 you would most likely want the timer.

Say you want to change about 45 gallons per week you would set the timer to run about 6.5 Hours per day so 6.5 x 1 GPH x 7 Day gives about 45.5 Gallons of water during the week.

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