



## 3" Side Mount Pressurized Bead Filter Assembly, Operation and Maintenance Instructions

Thank you for purchasing the EasyPro pressurized bead filter. Please read through these instructions completely before assembly and operation. Main control head will include flanges and piping to connect to the filter tub. Be sure to locate gaskets with hardware set also included in packaging. Also be sure to locate the filter's top cap, pressure gauge, relief "cap" and nut/washer pack for top of filter tub.

### Contents:

- Filter body tub with half flange installed
- Filter top cap with washers, nuts and decorative caps
- Pressure gauge and air relief knob
- 3" Side mount control head with half flange installed
- Flange hardware pack – bolts, washers, nuts and gaskets
- Sludge drain elbow, pipe and valve
- Ultimate tube media

### Assembly:

1. Unpack the filter tub and place it gently on its side with the flanges for the side mount control head facing up. Do not lift or move the filter tub by the flanged inlet/outlets.
2. Install the sludge drain valve into the bulkhead in the bottom of the tank. Locate the sludge drain assembly fittings which will include a 1" PVC threaded street elbow, a section of 1" PVC and a 1" PVC ball valve.
3. Use Teflon tape on the threads and screw the 1" threaded elbow into the bulkhead fitting. Be sure to align the outlet with the notch in the base of the unit and keep the bulkhead tight.
4. Dry fit the 1" PVC pipe and ball valve to ensure fit.
5. Use PVC primer and glue to secure fittings into place.
6. Before placing filter right side up, ensure that weight will not be placed on drain fittings. When filter placement is in a soil application a trench will need to be excavated for the sludge drain. If the filter is placed on a hard surface the filter body will need to be shimmed up to avoid placing filter weight on the drain and fittings.
7. Place filter body in place in final operating location.
8. Fill the filter tub with 10-12 inches of water. Use this to be sure the sludge drain assembly is water tight before adding beads to filter.
9. Next install the control head assembly to the filter body. Be sure to locate the gaskets that go between the flange halves on the filter body and the control head assembly.
10. Be sure the filter is oriented in the correct position for operation.
11. Line up the flanges and position the gasket between the flanges. Place bolt through the flange and gasket. Use supplied washers on the head and the nut side of the bolt. Properly support the control head while making the connection.
12. Install and hand tighten all bolts. Use wrench and socket to provide final tightening of bolts. Alternate bolts to ensure even tightening. Tight-



en to 20-30 ft/lbs. The flanges will not contact each other as the gasket between the flanges creates the water tight seal. DO NOT over tighten flanges.

13. Now check to see if sludge drain is holding water. If water tight seal is verified, begin to fill the filter body with filter bead media.
14. If a blower kit was purchased with your unit it can be installed at this point. Follow instructions provided for these systems.
15. Once media is installed, install filter's top cap. Be sure O-ring is present. Secure the cap to the filter using washers and nuts provided. Tighten nuts in alternating sequence to ensure proper seal. Be sure not to cross thread or over tighten the nuts. Decorative bolt/nut caps should be applied to cover threads once nuts are tightened.
16. Install the air relief knob into appropriate port on top of filter top cap. Do not use Teflon tape for this fitting since an O-ring is included to create the seal.
17. A pressure gauge is included as well as a threaded plug for the pressure gauge port. Either can be used. While a pressure gauge is used to monitor system pressure, these systems are required to be backwashed on a regular basis rather than on when the pressure reading is a certain psi. If you choose to install the pressure gauge, use it only for reference and be sure to backwash the system on a regular basis to keep the filter functioning properly. If the pressure gauge is installed use a minimal amount of Teflon tape on the threads to avoid over sizing the threads and cracking the filter top cap.
18. Connecting your pump, pond return and waste lines in appropriate ports is the next step. For any future servicing of the control head and filter, consider using union, flange or other disconnecting fittings or minimum of 8" long straight PVC before any glued fittings to ensure ability to remove control head assembly without affecting plumbing.
19. Always provide extra support for plumbing to relieve any additional stress on control head or flanged connections.



### Startup and Operation:

1. Set the control head to "FILTER."
2. Prime and start pump according to pump instructions.
3. It will take a bit for water to fill the tank depending on flow rate and filter size.
4. Check for leaks and steady flow.
5. At initial startup or periodically during operation, air may become trapped in the filter. Air can be released by slowly loosening the air relief knob on the filter top cap. Once air is evacuated, re-tighten the air relief knob.
6. If a pond is new or has not had previous filtration, it may take several weeks for proper balance to be established. If pond is excessively dirty or green (pea soup), a water change is necessary before starting filter.

### Backwashing:

Getting rid of excess waste that collects in the filter is simple with the handle operated backwash system.

1. While pump is running and control handle is in the "FILTER" setting, open the ball valve on the sludge drain assembly. Leave valve open for 15 to 30 seconds. Some beads may discharge with the waste.
  2. Close valve. Wait 10-20 seconds and repeat step one if necessary.
  3. Once sludge has been drained close valve and continue with "Backwashing" steps.
  4. Shut off the main pump.
  5. If blower system is installed rotate the control head to "RINSE". If not, skip to step 8.
- NOTE:** Do not run pump during blower operation.
6. Open the ball valve on the Blower Assist unit and turn on blower. Run the blower for three to five minutes. Some water will discharge from the waste line followed by air escaping from the tank.
  7. Switch off blower and close the ball valve on the blower assist unit.
  8. Set control head to "BACKWASH"
  9. Turn main pump back on.
  10. Run pump until water begins to run clear.
  11. Turn pump off.

12. Turn handle to “RINSE” and turn pump back on.
13. Once water runs clear return handle to “FILTER” position.
14. It is optional to open sludge drain once more after the backwashing procedure. The process may have loosened additional sludge that can now be drained.

### Control Valve Settings:

| Setting     | Description  |
|-------------|--|
| Filter      | Normal pond filtration   |
| Backwash    | Cleaning filter by reversing the flow                          |
| Rinse       | Used after backwash to flush valve                             |
| Waste       | By-passes filter, for pond draining or lowering                |
| Recirculate | By-passes filter for circulating water in pond when medicating |
| Closed      | Shuts off flow from pump                                       |
| Winter      | Drains the valve to prevent freezing when filter not in use    |



### Winterizing:

Follow these steps to shut down the filter during winter months in freezing climates.

1. Perform a backwash cycle and then shut the pump off.
2. Rotate the control handle to “WINTER.” This will allow water to drain from the valve head.
3. Partially open the sludge drain and allow water to trickle out. If valve is opened all the way, beads will run out. It should be expected that some beads will come out. Filter will still operate properly even with small loss of beads, but limiting the valve will ensure most beads will remain in filter.
4. Leave the sludge drain valve partially open during the winter.
5. To restart after winter, close the sludge drain valve and follow startup instructions.

