



## Excelflow Booster Pump Installation Instructions

### **Booster Pump Kit Model: PUMPAC-110TK Includes:**

- (1) Booster Pump (with Wiring Harness attached)
- (2) 3/8" FX 1/4" Compression Tube Fittings (installed)
- (1) Pressure switch model RO-SWI-H
- (2) Pump Fastening Screws
- (1) Transformer

When installed according to the directions below, this booster pump kit will increase the production rate of a household RO system by 20% - 40%, depending on the quality of the feed water. Typically, it will boost a 50 psi water supply to 70 psi – 90 psi, depending on the rated output of the RO system.

### **A. Mounting of the Booster Pump**

Referring to Figure 1. That indicates where the booster pump must be installed (**BP**), mount the booster pump near the RO system's water supply line. It may be mounted in a vertical or horizontal position. A standard 110V outlet must be close by to provide power to the pump.

Making sure the water supply has been shut off (in most installations you can use the water supply line saddle valve attached to your household plumbing), cut the supply line with a sharp knife. **Note the directional arrows on the head of the pump indicating necessary direction of flow.** Push the supply tube ends into the pump inlet and outlet compression fittings and tighten. Hand tighten + 1/4 turn is usually sufficient. Leave water supply line turned off.

### **B. Installation of the Pressure Switch and Flow Restrictor**

Refer to Figure 1. You will note three acceptable locations (**PS**) for the pressure switch to be installed. Choose one that is convenient for your own installation.

Cut the tube at the selected point and insert the tube ends into the compression fittings on the pressure switch and tighten. Hand tighten +1/4 turn is sufficient.

Remove the flow restrictor that is installed on the waste line. Replace with the flow restrictor that is supplied with the kit by pushing the waste tube into the fitting until it bottoms. Tug gently on the restrictor to ensure a secure connection.

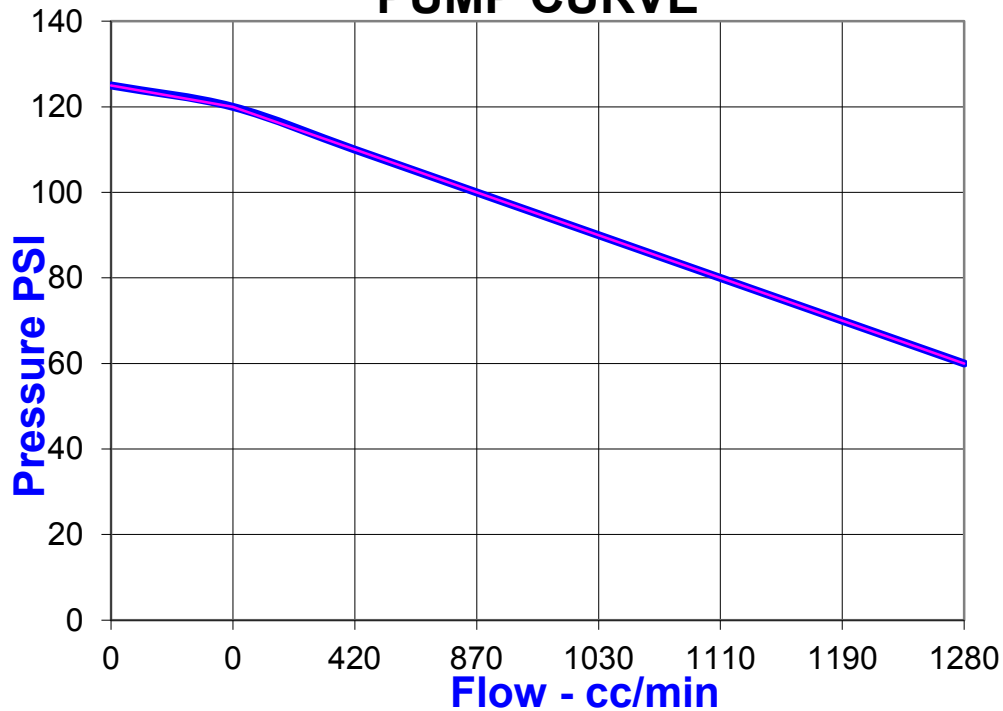
### **C. Connect the Wiring Harness**

Connect the female slip connectors on to the male ends located on the pressure switch. Connect the fork connector ends to the connecting screws located on the transformer. Make sure the screws are snug.

### **D. Testing the Installation**

Turn on the water supply valve and check for leaks. Reconnect or tighten fittings if necessary. Plug in transformer to wall electrical socket. The pump should start up and continue to run until the tank has been filled. The pump will generally operate when the tank is refilling, though it may cut off just prior to the RO system itself shuts off.

## WATERITE *EXCELFLOW* RO BOOSTER PUMP CURVE



### E. Troubleshooting

#### 1. System is not making water.

- Pump is installed backwards. Note direction of flow arrows
- Pump transformer is not plugged into an electrical wall socket.
- Water supply is turned off.

#### 2. Pump continues to run long after RO systems shuts off.

- Defective pressure switch. Consult your dealer.
- Pressure switch is incorrectly located.

#### 3. Pump does not start.

- Transformer is not plugged in.
- Check for loose or disconnected wire connections.
- System is fully pressurized and is not making water.
- Defective pressure switch. Consult your dealer.



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# RESIDENTIAL RVERSE OSMOSIS SYSTEM FLOW LAYOUT – BOOSTER PUMP INSTALLATION

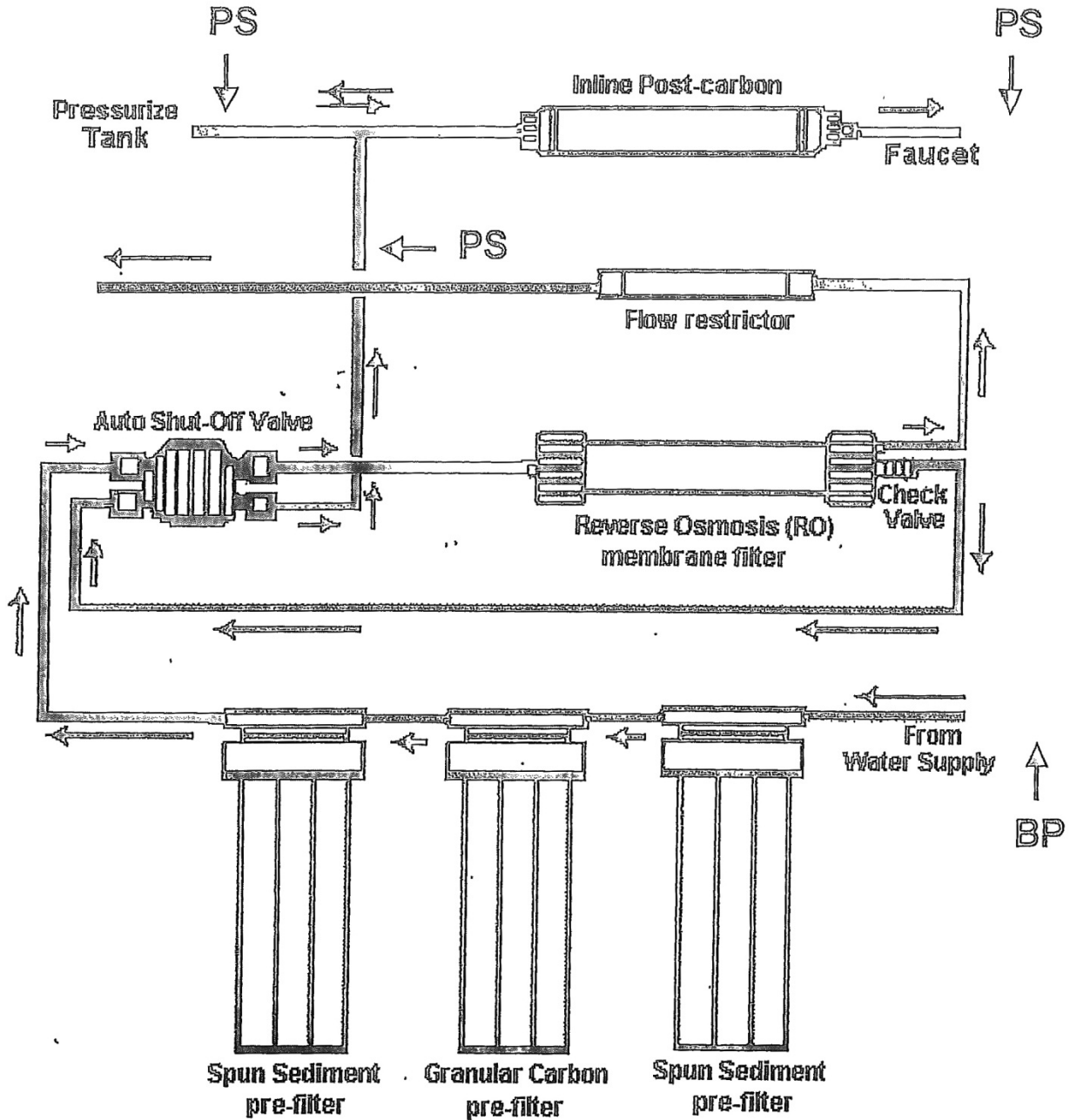


Figure 1.