



## Smart Buddie™ BOOSTER PUMP 50 to 100 GPD RO Systems

### Flush Valve (Automatic):

- Flushing the Membrane is critical to obtaining peak performance from the RO unit.
- Flushing clears debris build-up on the Membrane.
- The Smart Buddie Booster Pump unit includes an internal automatic valve that flushes the Membrane for 18 seconds every time the unit is activated.
- The internal valve allows water to bypass the flow restrictor located inside the Smart Buddie Booster Pump housing. After 18 seconds, the valve will force the water to pass through the flow restrictor and build pressure against the Membrane.
- After flushing, Filtered Water production will begin.



**IMPORTANT:** Remove the flow restrictor on the RO unit itself and use the flow restrictor built into the Smart Buddie.

### THINGS TO KNOW

#### General:

- The Smart Buddie™ Booster Pump has three sets of connections, one set for the Supply Water, one set for the Waste/Flush Water and one set for the Filtered Water.
- The water will flow in through top row and out through the bottom row.
- The connections on the Smart Buddie Booster Pump are “Double Press Connections”. When connecting 1/4” tubing, you will feel the tubing stop twice before it is fully inserted.
- To avoid putting pressure on the pre-filters, the Smart Buddie Booster Pump should be installed between the final pre-filter (usually the Carbon) and the Membrane.
- Before setting up the Smart Buddie Booster Pump, ensure that the power cord is not plugged into an electrical outlet.

### Low Pressure Switch:

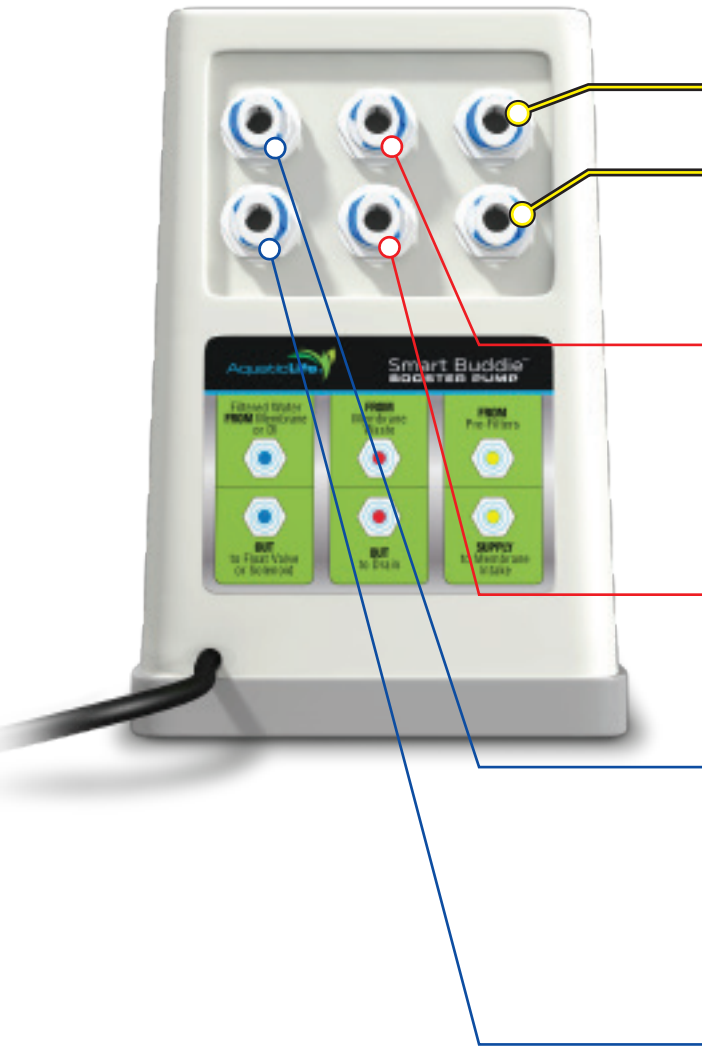
- The Low Pressure Switch will disconnect power if the Source Water pressure is between 4.35 and 7.25 PSI.
- Shutting off the source water when the pressure is low will prolong the life of the Pressure Pump.

### High Pressure Switch:

- The High Pressure Switch will disconnect power if the Filtered Water supply line pressure is between 33.35 and 36.25 PSI.
- Many RO unit installations connect to storage containers that use float valves or pressure canisters that create pressure on the Filtered water line. When the containers are full, back pressure on the Filtered Water line is created.
- The Smart Buddie Booster Pump unit will disconnect power to the Pressure Pump and prevent water flow to the Membrane.

### Pressure Pump:

- The Pressure Pump increases incoming water pressure to 80 - 90 PSI.
- This higher pressure increases the effectiveness of the RO unit.
- The Pressure Pump is low voltage and is powered by the included transformer.



## HOSE CONNECTION

### Supply Water Connection

- 1 Insert yellow supply 1/4" tubing from final pre-filter (usually the Carbon) into the top right connection.
- 2 Insert yellow supply 1/4" tubing from the bottom right connection into the supply side of the membrane housing.

### Waste/Flush Water Connection

- 3 Insert red waste 1/4" tubing from the waste water outlet of your membrane housing to the top center connection.



**IMPORTANT:** Remove the flow restrictor on the RO unit itself and use the flow restrictor built into the Smart Buddie.

- 4 Insert red waste 1/4" tubing from the bottom center connection to the drain or waste water collection container.

### Filtered Water Connection

- 5 Insert blue filtered water 1/4" tubing from the filtered water outlet of the membrane or DI cartridge into the top left connection.



**NOTE:** If you are using a post deionization cartridge on the system verify that it can handle the required PSI needed to activate the high pressure switch.



**NOTE:** A check valve should be located between where the filtered water exists the membrane housing and where the tubing connects to the Smart Buddie Booster Pump "Filtered Water FROM Membrane or DI".

- 6 Insert blue filtered water 1/4" tubing from the bottom connection to the collection container.

## WARRANTY

Aquatic Life warrants that this Booster Pump shall be free from defective electrical components and leaks or cracks due to defects in materials or workmanship for a period of twelve (12) months from the date of purchase. If a defect is shown, Aquatic Life will, at Aquatic Life's sole discretion, either repair or replace the product without charge. No cash refunds will be made. This warranty is provided solely to the original consumer purchaser of the product and may not be transferred or assigned.

This warranty does not apply to damage resulting from accident, misuse, abuse, lack of reasonable care, failure to follow safety and installation instructions. This warranty will not be effective unless and until the Aquatic Life product is shown to have been used in accordance with the safety and installation instructions accompanying the product.

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AQUATIC LIFE IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY. AQUATIC LIFE EXPRESSLY DISCLAIMS ALL ALLEGED DAMAGES FOR LOSS OF MARINE LIFE, PERSONAL INJURY, AND/OR PROPERTY DAMAGE.

Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of implied warranties or conditions, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary by state or province.

Aquatic Life shall not have any obligations under this warranty unless the owner notifies Aquatic Life in writing of any alleged defect(s) within 30 days of discovery of the defect(s).

Any notice to Aquatic Life must be delivered by United States or electronic mail to the following address: U.S. Mail: Aquatic Life, 2416 W. Victory Blvd, #136, Burbank, CA 91506 or electronic mail: customersupport@aquaticlife.com. Aquatic Life shall be allowed a reasonable period of time to investigate any warranty claim and to perform any testing Aquatic Life deems necessary to determine the cause of the defect. This warranty shall be interpreted under the laws of the State of California.