

# GROWONIX

TUNED FOR GROWING



## BP-1530 BOOSTER PUMP OWNERS MANUAL

[WWW.GROWONIX.COM](http://WWW.GROWONIX.COM)



1:1



## WHY USE A GROWONIX BP1530 ?

Membranes love pressure! In general, more pressure allows for better emembrane rejection, longer membrane life, and increased membrane flow rate. GrowoniX BP-6010 Series Booster Pumps allow for the full potential performance of the RO membrane to be acheived—with only 35 PSI of incoming water pressure. The perfect solution for those with low feed water pressures, and those who want to receive the maximum performance from their GrowoniX water filter.

- BP-1530 SYSTEMS FEATURES**
- Continuous duty cycle
- Adjustable output pressure
- Controllable manually or with ESOK (electric shutoff kit)
- Patented electrogalvanized bracket on BP-6010-CH

# INTRODUCTION

## OUR MISSION

Durability, Reliability, Efficiency, Purity, and Conservation form the foundation on which we design and build all of our products. Consistent and superior quality sets us apart from other manufacturers and increases our value to you - our customer. Whether you are a hydroponics hobbyist, serious enthusiast, or large-scale gardener, GrowoniX is committed to bringing you the best solution for water purification systems.

## WHAT IS REVERSE OSMOSIS?

Reverse osmosis (RO) is a filtration method that removes many types of large molecules and ions from solutions by applying pressure to the solution when it is on one side of a selective membrane. This filtering process ensures that the solute (waste water) is contained within the pressurized chamber while the pure solvent (RO water) is allowed to pass freely through the membrane.

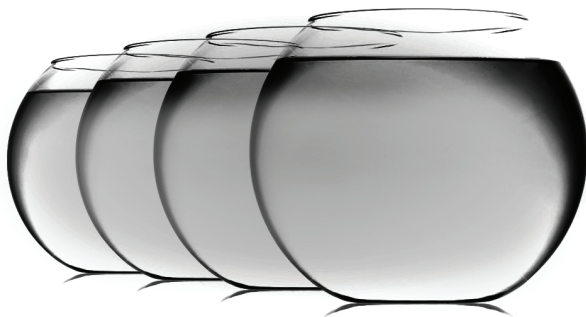
## TUNED FOR GROWING - IN TUNE WITH OUR CUSTOMERS

Traditional RO systems have waste ratios of approximately 4:1, which means there are 4 gallons of waste water produced for every 1 gallon of purified water. GrowoniX line of water filters achieve waste ratios of 2:1 with the EX100 through GX400 and an astounding 1:1 ratio with the GX600 and GX1000.

GrowoniX has created a complete product line that will address the needs of hydroponic operations of all sizes. Our filters will significantly reduce your water use while dramatically increasing your yields.

### THE TRADITIONAL WAY

takes 4 gallons of waste water to produce 1 gallon of pure water



WASTE WATER

4 : 1



PURE WATER

### THE GROWONIX WAY



WASTE WATER

1 : 1



PURE WATER

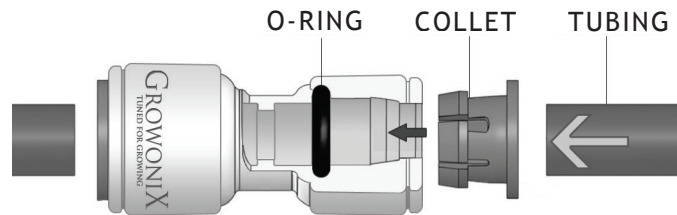


# INFORMATION ON QUICK CONNECT FITTINGS

**GROWONIX WATER FILTERS USE QUICK CONNECT FITTINGS THAT ALLOW FOR EASY MAINTENANCE.**

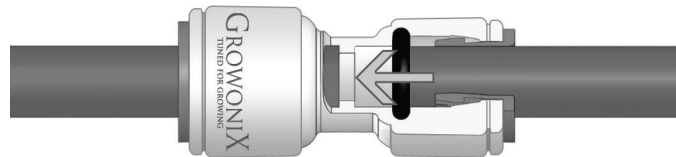
## MAKE A CLEAN TUBE CUT

Cut the tube squarely and if using plastic tubing, ensure that the cut has not made the tube out of round. Also ensure that the tube has a smooth outside diameter without any burrs or score marks prior to inserting it into the fitting.



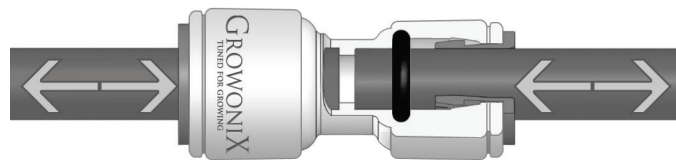
## INSERT TUBE INTO FITTING

Push the tubing through the collet and dual o-rings until it bottoms out against the tube stop. The collet holds the tube in place and the dual o-rings provide a leak resistant seal.



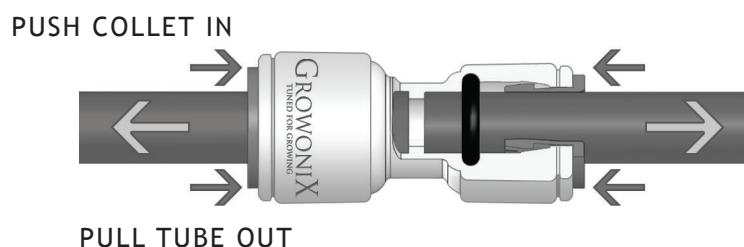
## TEST AND INSPECT

Push and pull the tubing toward and away from the fitting to ensure that it has been installed properly. Test and inspect the installation for any leaks.



## TUBE REMOVAL

Relieve pressure from the tubing and fitting. Push uniformly around the collet flange against the fitting body while pulling the tubing away from the fitting to release it.



# OPERATIONAL AND INSTALLATION GUIDELINES

## GROWONX BP-1530 SERIES BOOSTER PUMP

**PLEASE READ THESE OPERATIONAL AND INSTALLATION GUIDELINES  
BEFORE INSTALLING THE “CDP” BOOSTER PUMP.  
IF ADDITIONAL HELP IS NEEDED, PLEASE CONSULT THE FACTORY.**

### ABOUT

- The GX150/300 Booster Pump is designed for use with all GrowoniX water filters 600 GPD and under.
- The pump is designed to boost low water pressure conditions to optimal pressure. We recommend not exceeding 79 psi output pressure.

### CAUTIONS

- The pump is equipped with an adjustable bypass valve which controls the maximum operating pressure. In addition, never subject the pump to pressures above 79 PSI.
- Never operate the pump in a harsh environment or hazardous atmosphere, since motor brush and switch may cause electrical arcing.
- Pumphead materials are designed for use with water only. Do not use with petroleum products.
- Always consider electrical shock hazard when working with and handling electrical equipment. If uncertain, consult an Electrician. Electrical wiring should only be done by a qualified Electrician per Local and State Electrical Codes.

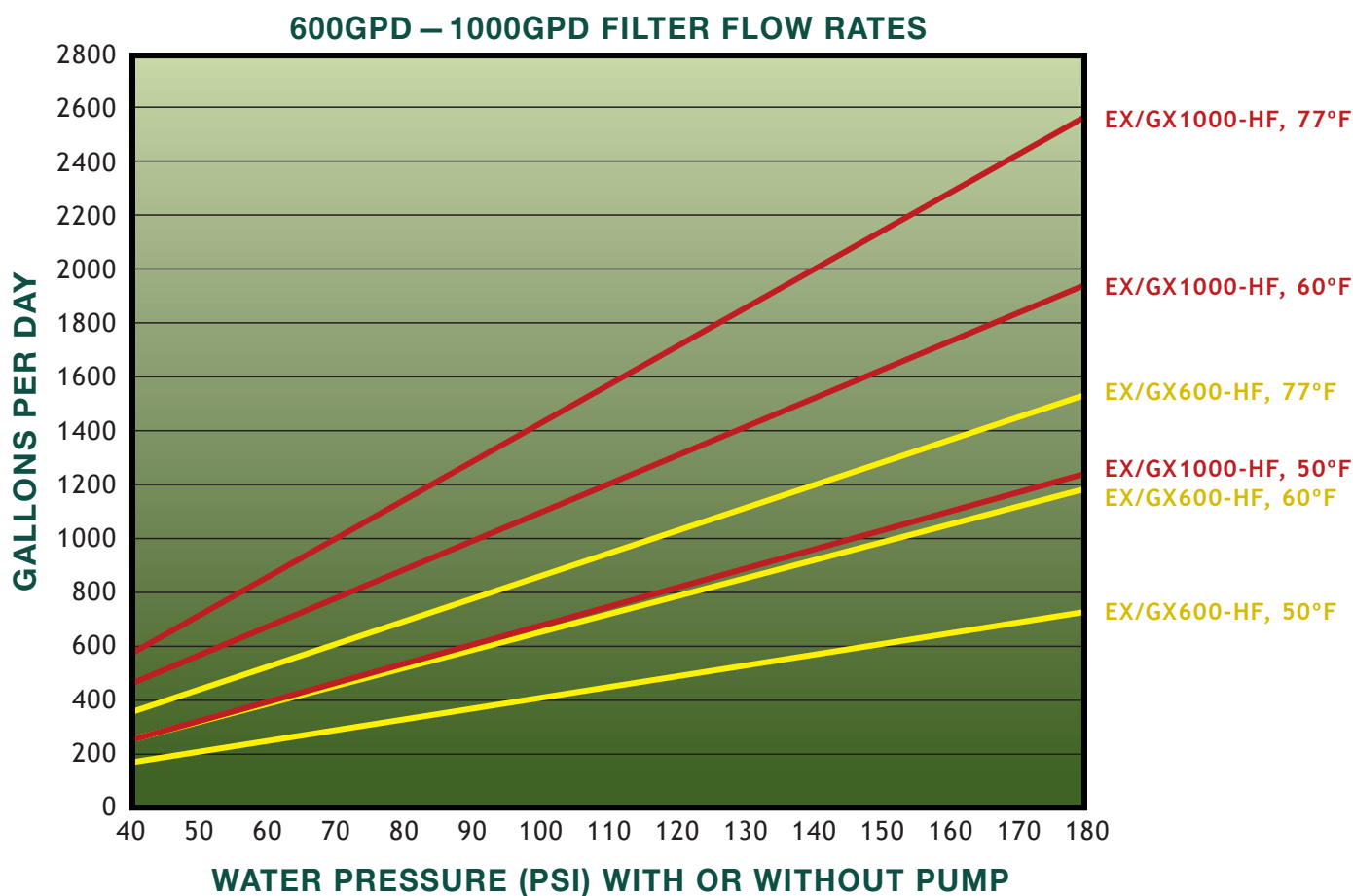
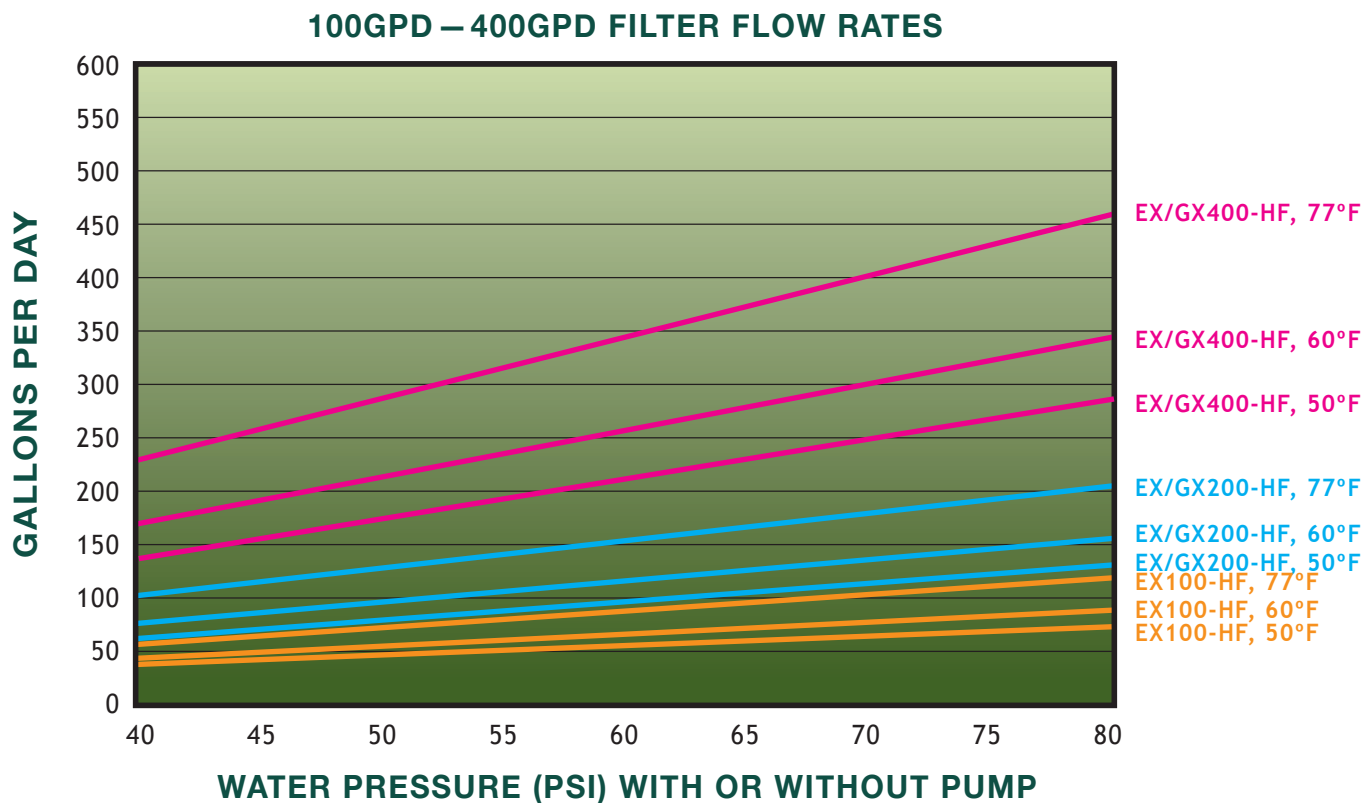
### MOUNTING

- The pump should be mounted in a dry place and away from any source of heat. If an enclosure is used, special provisions for cooling the motor may be necessary. Consult the Factory.
- Do not subject the pump to extreme high or low (freezing) temperatures while in operation. (Operating ambient temperature range is 32°F to 115°F).
- The pump may be mounted in any position. If “ceiling mounted”, however, with the pumphead upside down, air entrapment may reduce the operational performance by up to 15% . Consult Aquatec for ceiling mount solutions.

### PLUMBING

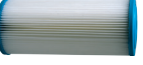
- We recommend use of flexible tubing with proper pressure rating.
- Pump will prime only if all pressure is relieved from the outlet port.
- It is recommended that an in-line sediment filter (150 micron or 100 mesh) be installed at the inlet side to keep foreign debris out of the system.  
Please consult your GrowoniX catalog for an in-line filter.
- Avoid any sharp bends which may crimp tubing and restrict flow. Use 90° elbow fittings if necessary.
- The pump should always be mounted prior to the carbon pre-filter to prevent carbon particles from entering the pump chambers and possibly causing clogging.

# FLOW RATES



# REPLACEMENT PARTS

## MEMBRANE INDEX

|                                                                                     |                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <b>COCONUT CARBON FILTER – “GREEN BLOCK”</b><br>PREMIUM COCO CARBON, PRODUCED USING ECO-FRIENDLY LOW EMISSIONS PROCESSES                                               |
|    | <b>COCONUT CARBON FILTER – “WHITE BLOCK”</b><br>ECONOMY COCO CARBON, SAME PERFORMANCE AS GREEN BLOCK, FOR A LITTLE LESS MONEY.                                         |
|    | <b>KDF85/CATALYTIC ACTIVATED CARBON FILTER</b><br>PREMIUM CARBON FILTER USING THE BEST ACTIVATED CARBON WITH A BED OF KDF85 MEDIA. THERE'S NO BETTER CARBON AVAILABLE. |
|    | <b>SEDIMENT SPUN</b><br>SPUN POLY SEDIMENT FILTERS WITH HUGE DIRT HOLDING CAPACITY.                                                                                    |
|    | <b>SEDIMENT PLEATED</b><br>HIGH FLOW SEDIMENT FILTERS WITH ULTRA LOW PRESSURE DROP.                                                                                    |
|    | <b>GXM INDUSTRIAL MEMBRANES</b><br>HIGHEST FLOWING DOW SHEET MEMBRANES ON THE PLANET, WITH THE LOWEST WASTE RATIO.                                                     |
|    | <b>GXM HIGH FLOW COLD WATER MEMBRANES</b><br>HIGHEST FLOWING RESIDENTIAL SIZED MEMBRANES. ALWAYS 2:1 RATIO.                                                            |
|    | <b>ALKALINE INLINE</b><br>INLINE FILTER ADDS CALCIUM & MAGNESIUM TO FILTERED WATER, RAISES THE PH.                                                                     |
|    | <b>ALKALINE CARTRIDGE</b><br>CARTRIDGE ADDS CALCIUM & MAGNESIUM TO FILTERED WATER, RAISES THE PH.                                                                      |
|   | <b>REMINERALIZING INLINE</b><br>INLINE FILTER ADDS CALCIUM & MAGNESIUM TO FILTERED WATER,                                                                              |
|  | <b>REMINERALIZING CARTRIDGE</b><br>CARTRIDGE ADDS CALCIUM & MAGNESIUM TO FILTERED WATER,                                                                               |
|  | <b>UV STERILIZATION</b><br>KILLS 99.9% BACTERIA AND VIRUSES.                                                                                                           |
|  | <b>DI INLINE</b><br>DE-IONIZATION FILTER REMOVES LAST BIT OF PPM.                                                                                                      |

## NEW GXM-600 & 1000 MEMBRANES!

30% INCREASED FLOW RATE

98.5% REJECTION

1:1  
RATIO



GXM-1000HF 1000GPD @ 60PSI · 2400 GPD @ 180 PSI

GXM-600HF 600GPD @ 60PSI · 1400 GPD @ 180 PSI

FLOW RATED AT 65°F WATER TEMPERATURE

| PRODUCT                                                     | TYPE          | MSRP   | SYSTEM                                 | NOTES                                          |
|-------------------------------------------------------------|---------------|--------|----------------------------------------|------------------------------------------------|
| <b>SPECIALTY FILTRATION, ACCESSORIES &amp; REPLACEMENTS</b> |               |        |                                        |                                                |
| ALK-Inline                                                  | Alkaline      | 99.00  | All RO systems                         | Raises ph, adds cal/mag mineral.               |
| ALK-Cart                                                    | Alkaline      | 99.00  | All RO systems                         | Raises ph, adds cal/mag mineral.               |
| RM-Inline                                                   | Re-Mineralize | 67.00  | All RO systems                         | Adds cal/mag minerals.                         |
| RM-Cart                                                     | Re-Mineralize | 67.00  | All RO systems                         | Adds cal/mag minerals.                         |
| DI-Inline                                                   | De-Ionization | 31.00  | All RO systems                         | Removes remaining TDS after RO (aquarium, lab) |
| DI-Cart                                                     | De-Ionization | 34.00  | All RO systems                         | Removes remaining TDS after RO (aquarium, lab) |
| UV-1530                                                     | Ultraviolet   | 149.00 | All RO, Scrubber systems, tank storage | Kills 99.9% bacteria                           |
| UV-6010                                                     | Ultraviolet   | 215.00 | All RO, Scrubber systems, tank storage | Kills 99.9% bacteria / viruses                 |
| UV-LB                                                       | Ultraviolet   | 443.00 | All RO, Scrubber systems, tank storage | Kills 99.9% bacteria / viruses                 |
| UV-XL                                                       | Ultraviolet   | 538.00 | All RO, Scrubber systems, tank storage | Kills 99.9% bacteria / viruses                 |

| PRODUCT                                                     | TYPE                          | APPLICATION / SYSTEM                                                             | MSRP   | CAPACITY                                      | NOTES                                             |
|-------------------------------------------------------------|-------------------------------|----------------------------------------------------------------------------------|--------|-----------------------------------------------|---------------------------------------------------|
| <b>REPLACEMENTS FOR ALL WATER FILTERS 400 GPD AND UNDER</b> |                               |                                                                                  |        |                                               |                                                   |
| SF-2510-PL                                                  | Sediment Pleated              | EX100/200/400/400-Tall, GX200/300/400, Mini Scrub                                | 14.50  | Depends on feed water piping/supply           | Stock on GX Series                                |
| SF-2510-SP                                                  | Sediment Spun                 | EX100/200/400/400-Tall, GX200/300/400, Mini Scrub                                | 10.75  | Depends on feed water piping/supply           | Stock on EX Series                                |
| CF-2510-CC                                                  | Economy Coco Carbon           | EX100/200/400/400-Tall, GX200/300/400, Mini Scrub                                | 12.00  | 7,500 Gallons Total<br>2,500 Gallons RO Water | Stock on EX Series                                |
| CF-2510-GB                                                  | Green Carbon                  | EX100/200/400/400-Tall, GX200/300/400, Mini Scrub                                | 16.50  | 7,500 Gallons Total<br>2,500 Gallons RO Water | Stock on GX Series                                |
| CF-2510-KDF                                                 | Premium Carbon                | EX100/200/400/400-Tall, GX200/300/400, Mini Scrub                                | 39.00  | 8,000 Gallons Total<br>2,700 Gallons RO Water | Must for well water and chloramine removal        |
| GXM-100                                                     | Standard Membrane             | 100+ GPD membrane for EX100                                                      | 83.00  | Depends on feed water quality                 | Fits most other RO systems                        |
| GXM-200-HF                                                  | High Flow Cold Water Membrane | 200+ GPD High Flow Cold Water Membrane for EX100/200/400/400-Tall, GX200/300/400 | 99.00  | Depends on feed water quality                 | Fits most other RO systems                        |
| BP-1530                                                     | Booster Pump                  | Booster pump for all RO systems 600 GPD and under.                               | 227.00 | 12,000 Hrs brush life                         | Booster pump for all RO systems 600 GPD and under |

|                                                    |                     |                           |        |                                                |                                            |
|----------------------------------------------------|---------------------|---------------------------|--------|------------------------------------------------|--------------------------------------------|
| <b>REPLACEMENTS FOR EX400HF-TALL AND SLIMSCRUB</b> |                     |                           |        |                                                |                                            |
| SF-2520-SP                                         | Sediment Spun       | EX400-tall, Slim Scrub    | 10.75  | Depends on feed water piping/supply            |                                            |
| CF-2520-CC                                         | Economy Coco Carbon | EX400-tall, Slim Scrub    | 24.00  | 16,000 Gallons Total<br>5,300 Gallons RO Water |                                            |
| CF-2520-KDF                                        | Premium Carbon      | EX400-tall, Slim Scrub    | 71.00  | 17,000 Gallons Total<br>5,700 Gallons RO Water | Must for well water and chloramine removal |
| CF-4520-KDF                                        | Premium Carbon      | EX600/1000-Tall, XL Scrub | 127.00 | 34,000 Gallons Total<br>17,000 Gallons RO      | Must for well water and chloramine removal |

## BP-1530 BOOSTER PUMP COMPONENT DIAGRAM



- 1. MOTOR
- 2. PUMP INLET
- 3. PUMP OUTLET
- 4. PRESSURE SWITCH
- 5. ADJUSTABLE INTERNAL BYPASS
- 6. POWER TRANSFORMER

**READ ENTIRE MANUAL THOROUGHLY  
BEFORE INSTALLING THIS PRESSURE-BOOSTING PUMP**

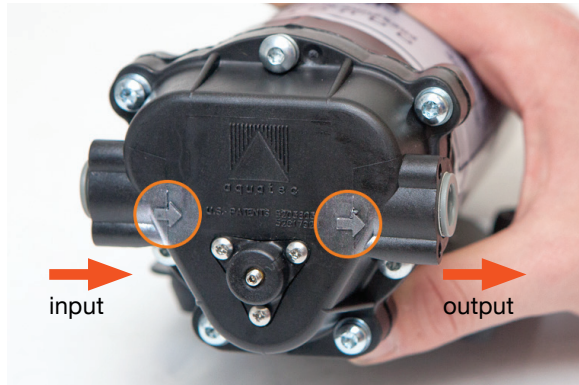


## BP1530 ASSEMBLY DIAGRAM



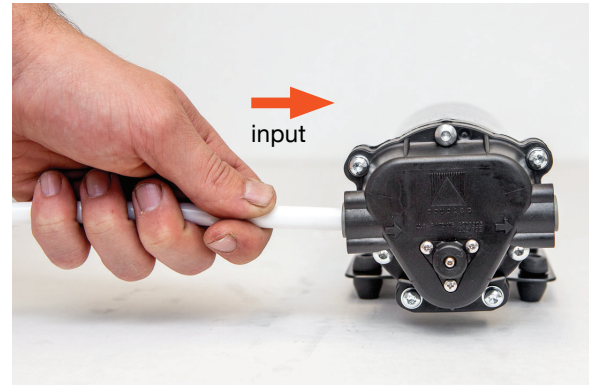
# SETUP INSTRUCTIONS

1



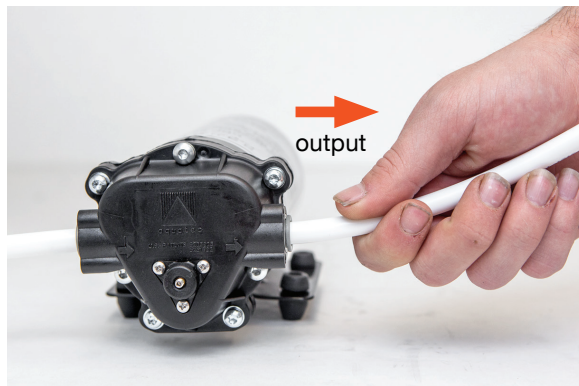
Make note of direction of flow prior to installation.

2



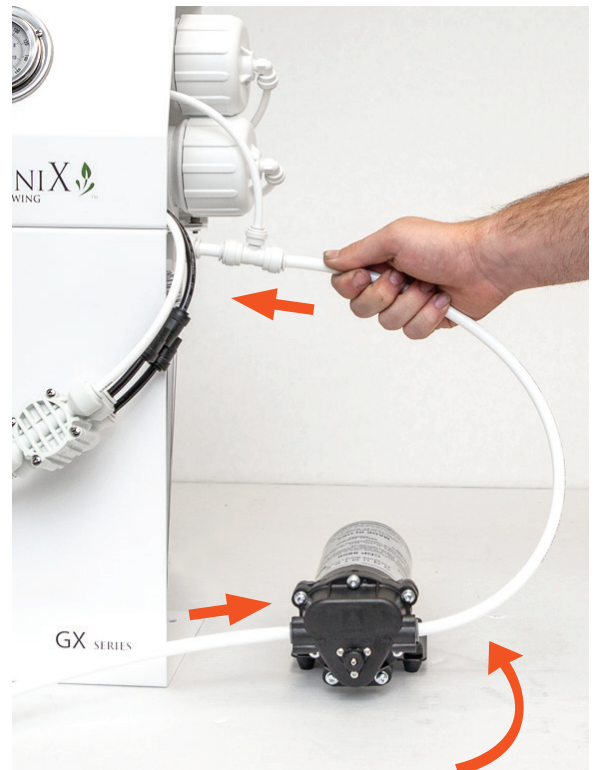
Connect feed water tubing to pump input.

3



Insert output tubing into pump output.

4

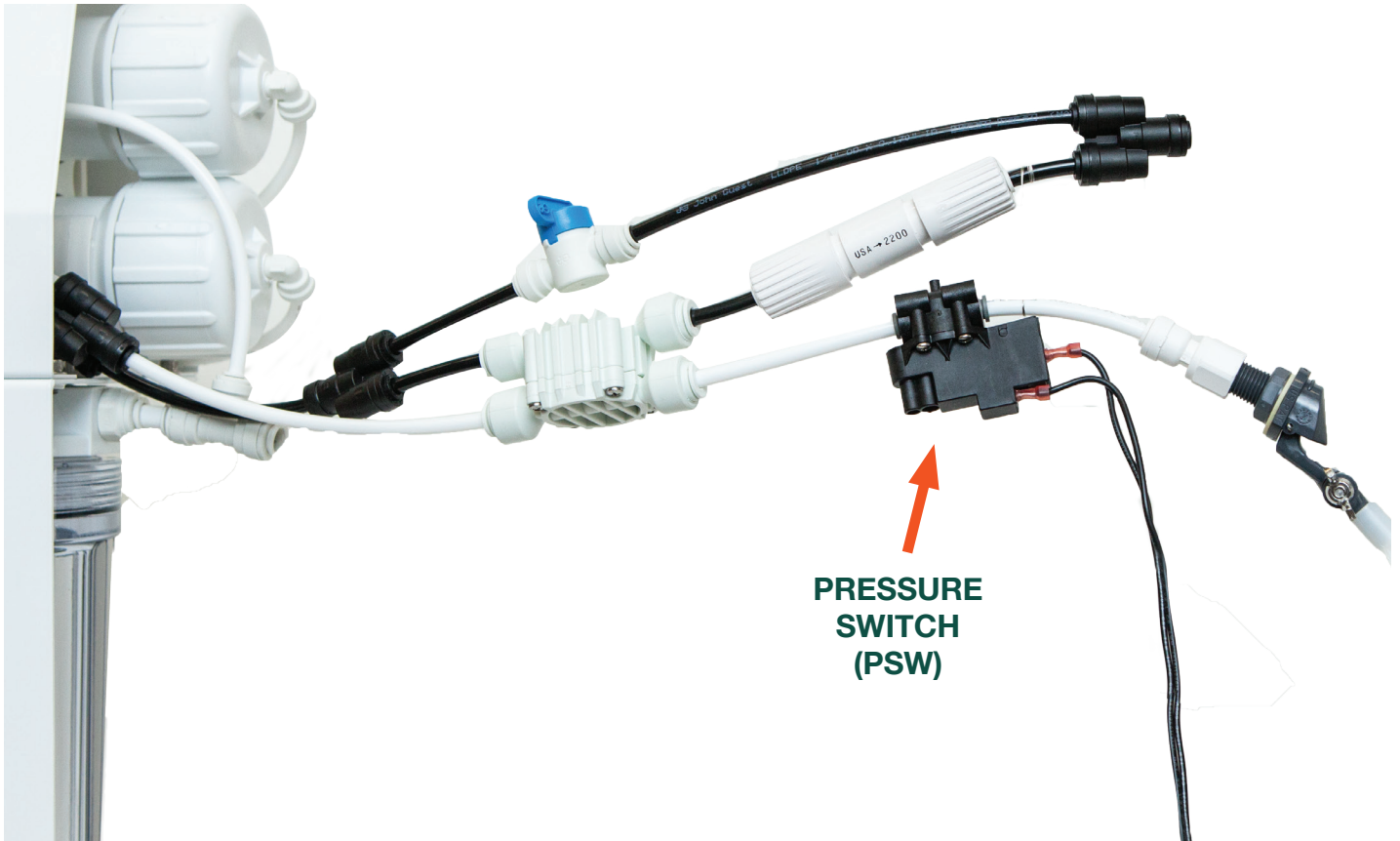


Insert output tubing into RO filter input.

# PRESSURE SWITCH

Install the pressure switch on the product water line (RO out tubing) after the auto-shutoff valve. The switch can be installed in any direction.

**FIG. 1**

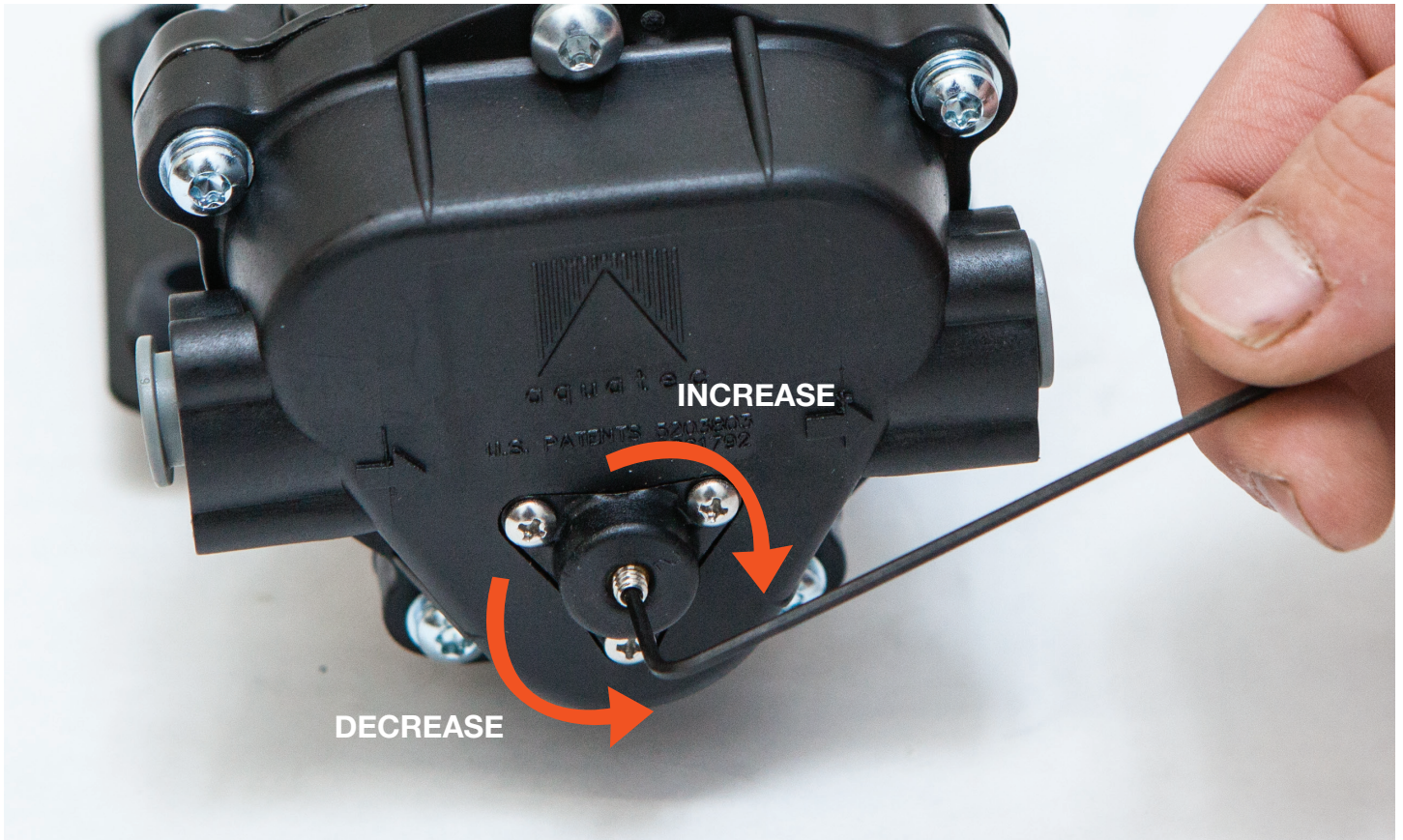




## ADJUSTABLE INTERNAL BYPASS

The BP-1530 Booster Pump is equipped with an adjustable internal bypass valve, which controls the maximum operating pressure. The valve is located in the center of the triangular cap on the top of the pump head, between the input and output ports. To adjust, insert the included 1/16" Allen Wrench into the chrome adjustment screw. Turn clockwise to increase operating pressure. Turn counter-clockwise to decrease operating pressure. It is recommended not to exceed 79 psi operating pressure.

Reference pressure guage on front of RO filter while asdjusting pump pressure.



Turn clockwise to increase operating pressure.  
Turn counter-clockwise to decrease operating pressure



# GROWONIX ACCESORIES

## ELECTRIC SHUT OFF KIT



### DDP-6

An essential add-on to almost any water filter! Shuts down feed water before the water filter. Controls on/off cycling of high pressure booster pumps. The electric shutoff kit consists of a float switch and solenoid valve. Mount the float switch in your water tank or nutrient storage tank. Install the solenoid valve on the front end of your water filter. When the tank level decreases to the desired amount, the float switch opens the solenoid valve, the booster pump (if installed) powers on, and the water system begins refilling the storage tank.



The DDP-6 is the ultimate water delivery pump. With a flow rate of 6.5 GPM, the DDP-6 can move water from one end of the garden to the other in a flash. Integral as a feed pump and return pump for GrowoniX smaller nutrient top feed systems, the DDP-6 can withstand the most rigorous of duties. Built in high pressure cutoff allows for easy use with solenoid valves, manual shutoff valves, watering wands, hose sprayers, or faucets

### BP-6010



DOUBLES pure water production for the EX600, EX1000, EX600, EX1000 water filters. The pump only needs 30psi of incoming water pressure to produce the full flow rate! Low pressure cutoff to safeguard the pump against a loss of incoming water pressure. Stainless steel liquid filled 300 psi system pressure gauge. Can be controlled manually or with our electric shutoff kit.

### BP-6010-CH



DOUBLES pure water production for the GX600 and GX1000 water filters. Splash Guard™ chassis connects directly to the GX600/GX1000. The pump only needs 30psi of incoming water pressure to produce the full flow rate! Low pressure cutoff to safeguard the pump against a loss of incoming water pressure. Stainless steel liquid filled 300 psi system pressure gauge. Can be controlled manually or with our electric shutoff kit.

## FLOW BOXES



GrowoniX FlowBox is a componential add-on to any GX600/1000 or EX600/1000 that utilizes a BP Series booster pump. Equipped with highly accurate liquid flow meters, the FlowBox allows for custom tuning and fine-tuning of the system ratio. Run your system at any ratio from 3:1 to 1:1— whenever you want. System ratios change throughout the year as the weather temperatures change. Keep a perfect 1:1 all year round with a FlowBox. Flush the system with a simple twist of the stainless steel needle valve. Allows for removal of the standard drain/flush assembly. Mounts atop the GX series chassis for easy viewing and adjusting. Easy wall mounting as well.

## GXM INDUSTRIAL MEMBRANES



These Dow sheet, American made membranes are the industries most reliable and highest performing reverse osmosis elements in the world. Advanced membrane technology and manufacturing processes ensure superior quality and unmatched performance. Ultra low energy design delivers high flow and high rejection at only 80psi. A must for cold water sources. Always at an industry leading 1:1 ratio.

Flow Rate: 600 gpd high flow membrane  
Membrane replacement for GX600, EX600, EX600-T

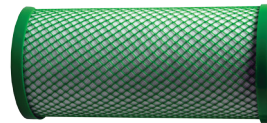
Flow Rate: 1000 gpd high flow membrane  
Membrane replacement for GX1000, EX1000, EX1000-T

## UV STERILIZATION



Stainless steel ultraviolet filtration to remove 99.9% of micro-organisms in your water supply. A must for well water treatment, whole house filter systems, or anytime water will be stored.

## COCONUT CARBON / GREEN BLOCK



Green Coco: NFS61 Listed Greencarbon. High flow with a low carbon footprint. Superior chlorine removal.

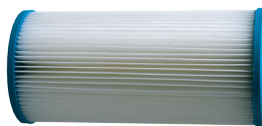
## SEDIMENT SPUN



Spun polypropylene: A true multi-staged depth filter utilizing separate layers of micron filtration. Constructed spun polypropylene, these filters offer superior dirt holding capacity at an extremely economic price. Great filter for changing frequently, especially in well water applications, or with use in GrowoniX scrubbers.

4.5"x9.75" Spun | 16000 gallons

## SEDIMENT PLEATED



High flow pleated Sediment filter: This is a washable, reusable, and durable sediment filter with very low pressure drop. Bacteria and chemical resistant. Great for high flow applications and extended time between filter changes. Comes standard in most GrowoniX water filters.

4.5"x9.75" | 16000 gallons

## KDF85/CATALYTIC CARBON FILTER



KDF/CAT. Bacteriostatic media controls growth of microorganisms. Good for water soluble metals removal, chlorine, chloramine, and scale. Highly reactive catalytic carbon, extremely porous and long lasting.

4.5"x9.75" | 16000 gallons

# GROWONIX REVERSE OSMOSIS SYSTEM WARRANTY

For a period of one year from the date of original purchase, we will replace or repair any part of the GrowoniX reverse osmosis water system that we find to be defective in operation due to faulty materials or workmanship with the EXception of the replaceable filters and membranes.

## GENERAL CONDITIONS

Damage to any part of this reverse osmosis system because of misuse; misapplication; negligence; alteration; accident; installation; or operation contrary to our instructions, incompatibility with accessories not installed by GrowoniX, or damage caused by freezing, flood, fire, or Act of God, is not covered by this warranty. In all such cases, regular charges will apply. This limited warranty does not include service to diagnose a claimed malfunction in this unit. This warranty is void if the claimer is not the original purchaser of the unit or if the unit is not operated under normal municipal water or well water conditions.

GrowoniX assumes no liability in connection with this reverse osmosis system. GrowoniX assumes no liability for any damages incurred through the use of this product. It is the responsibility of the end user to gauge the safe use of this product in the environment where it is applied. We do not authorize any person or representative to assume for us any other obligations on the sale of this reverse osmosis system. The information given out in the manual we believe to be true, but are offered to you in good faith without guarantee because each application of this product is different and beyond our control.

THE FOLLOWING STANDARD OPERATING CONDITIONS FOR RESIDENTIAL/COMMERCIAL REVERSE OSMOSIS SYSTEMS MUST BE MET FOR WARRANTY TO BE VALID.

|                 | Water Pressure | pH Range | Maximum TDS | Water Temp |
|-----------------|----------------|----------|-------------|------------|
| Standard System | 40-80 psi      | 2-11     | 2000 ppm    | 40-100 F   |

## GROWONIX RETURN POLICY

### MERCHANDISE RETURN DETAILS AND PROCEDURE:

If any merchandise was defective —we will refund the full purchase price upon receiving and reviewing the merchandise returned in undamaged condition.

### RMA NUMBER:

You must first obtain a Return Merchandise Authorization (RMA) number from GrowoniX.com. Any products sent to GrowoniX without an RMA number will not receive a refund and may be returned to the sender at their expense.

All refund amounts will be based on the manufacturer's warranty and GrowoniX return policy. Refunds will be issued back using the payment method you used when you placed your order. Refunds take up to 3-5 business days to process once we receive the return.

### PACKAGING:

Please kindly re-pack the product in its original box, or a box of equivalent strength. The unit should be packed in the same manner as it came to prevent damage in shipping. Please return everything that was in the original box, including any free items if applicable. Be sure to drain out all water from wet systems and parts and wrap them in plastic bags before packing.

### RETURN TO:

We will provide you with an GrowoniX warehouse address for return merchandise when we issue the RMA number.