GROWONIX

TUNED FOR GROWING

EX600T/1000T
EX600/1000

OWNERS MANUAL

WWW.GROWONIX.COM

1:1

EX 600/1000 SERIES

The strategy behind the EX Series is simply to make the highest quality, most efficient water filter, tuned specifically to meet the rigors of the industry.

Each filter system is designed, hand built, and tested right here in the United States, using American made, top-of-the-line fittings and tubing. All components are housed in steel powder-coated brackets fabricated in sunny Los Angeles, California.

The crown jewel of the EX Line is the Dow Membrane element, delivering a consistent rejection of 98.5% at a 1:1 ratio.

No matter how big or small your water production needs are, the EX Line has a solution for you.

NO ADDITIONAL PRE-FILTERS NEEDED

FEATURES

- 600 TO 1000 GALLONS PER DAY
- 25 TO 42 GALLONS PER HOUR
- 1:1 WASTE RATIO
- DOW CHEMICAL MEMBRANE
- ECO GREEN CARBON BLOCK
- HIGH FLOW WASHABLE SEDIMENT FILTER
- STAINLESS STEEL LIQUID FILLED PRESSURE GAUGES
- CAN USE A BOOSTER PUMP TO DOUBLE FLOW RATES
- MEMBRANE VESSELS RATED FOR 300/250 PSI
- PATENTED METAL HOUSING
- AUTO SHUTOFF VALVE
- EZ HOOKUP KIT
- WALL MOUNTABLE
- 75% LESS WATER THAN TRADITIONAL RO SYSTEMS

EX600/EX1000

The EX600 Designed to flow 25 GPH (Gallons Per Hour) of pure RO water. Utilizing the best membrane technology in the world, mounted on locking casters, and wrapped in our EX Series patented bracketing system; our EX600 will change the way you look at RO.

A pair of liquidfilled stainless steel pressure gauges tells you when it's time to change the pre-filters. A manual flush valve allows you to clean the membrane, purging out pollutants that could otherwise add buildup to the system. Flushing adds considerable life to the membrane. For those who demand even more performance, the EX600 can be used with a pressure-boosting pump to dramatically increase GPD output.

SYSTEM SPECIFICATIONS:

Flow Rate EX1000 =1000 GPD
EX600 = 600 GPD
Max Flow Rate w/Booster Pump 2000 GPD(1800 GPD average)
Minimum Feed Pressure 40 psi
Recommended Feed Pressure 60 psi—80 psi
Recovery (system ratio 1:1) 50%

Operating Temperature	40°F—105°F
Operating pH	3-11
Dimensions LxWxH (in)	21x9x28
Weight	50 lbs.
Nominal % Rejection	98.5%

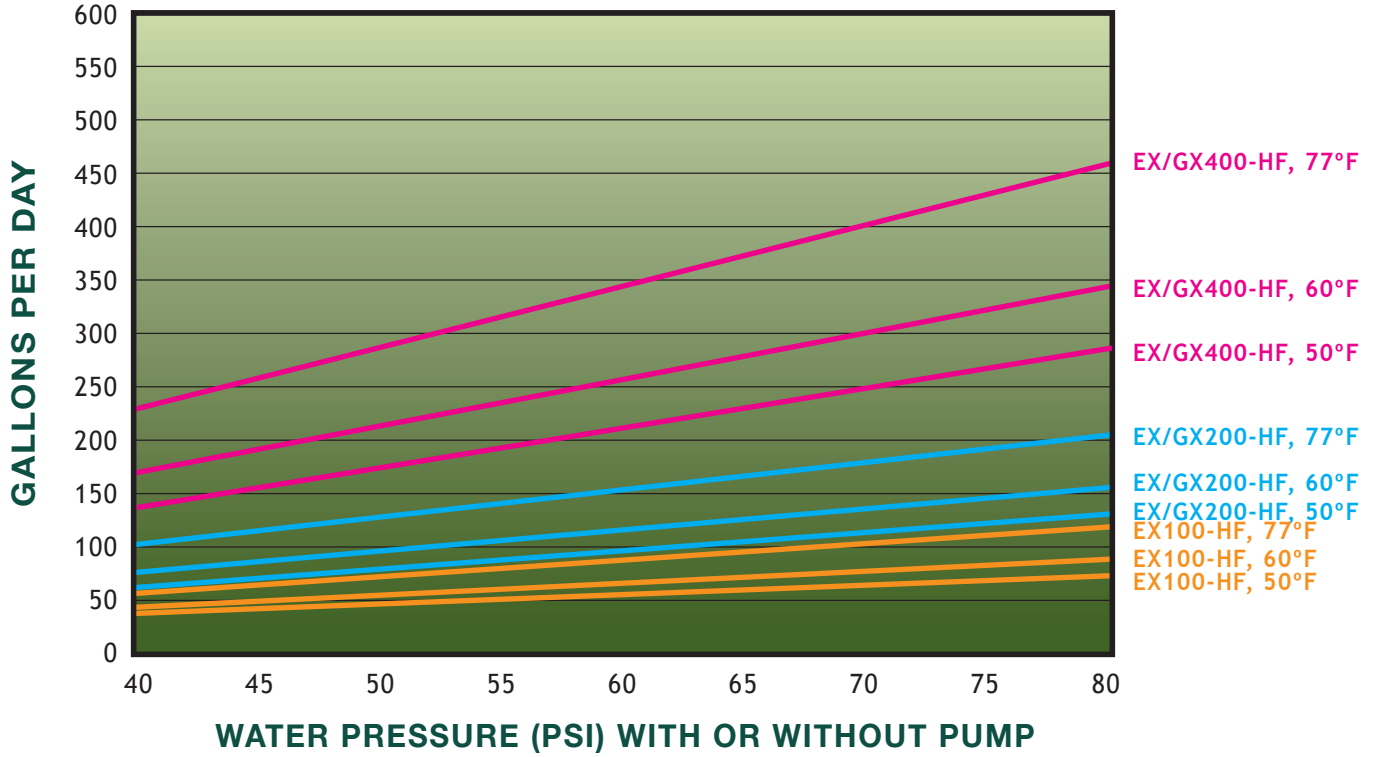
Maximum TS: 2000 ppm
Minimum NACL Rejection: 96%
Maximum Hardness: 15 gpg

Test Conditions:
Permeate flow and salt rejection based on 550 ppm, 80 psi, 77°F (25°C), pH 7, and 50% recovery.

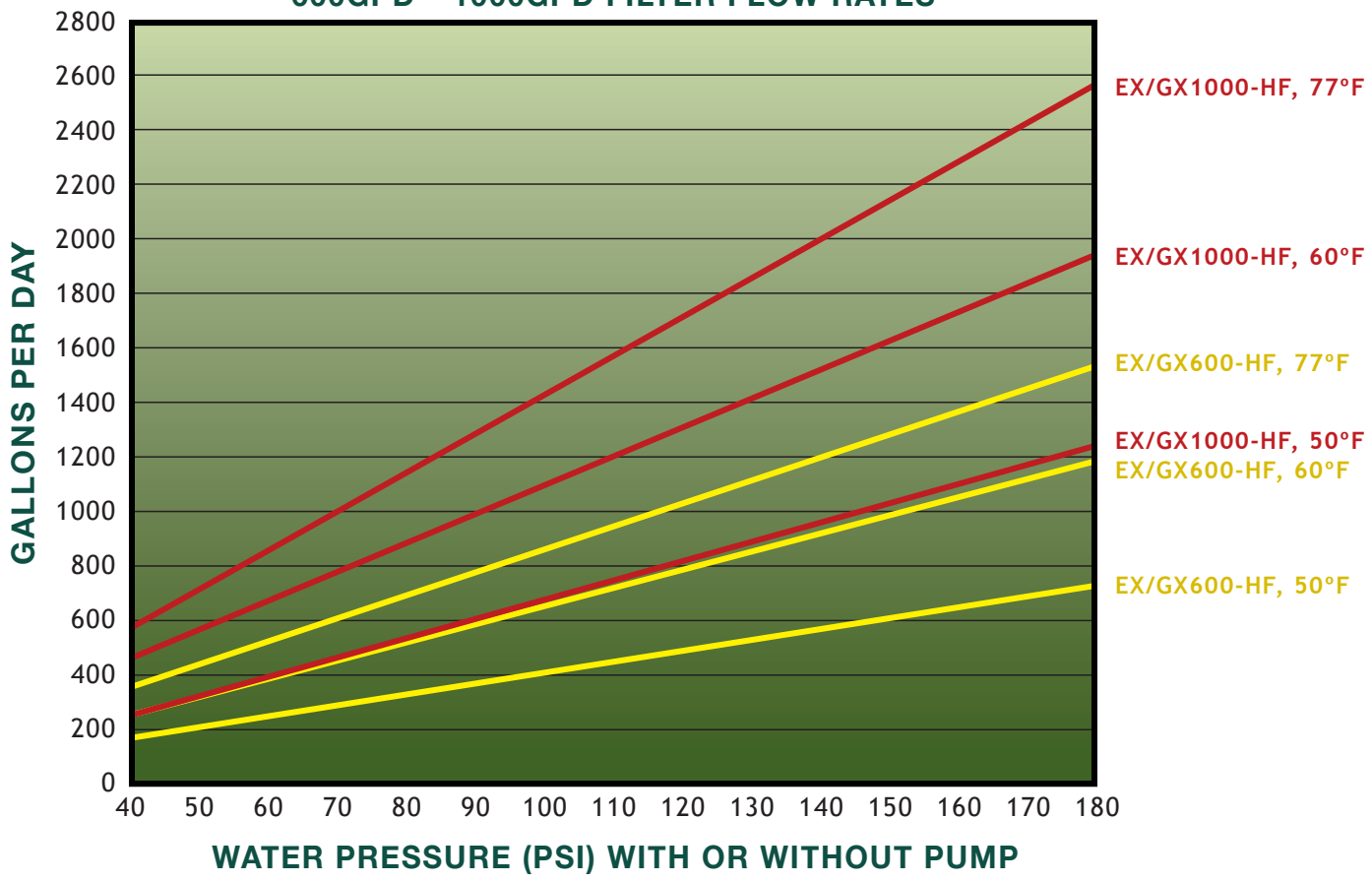
www.growonix.com toll free 888.406.8521, office 818.510.0264, sales@growonix.com

FLOW RATES

100GPD — 400GPD FILTER FLOW RATES



600GPD — 1000GPD FILTER FLOW RATES



REPLACEMENT PARTS

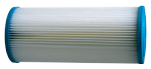
MEMBRANE INDEX

COCONUT CARBON FILTER— "GREEN BLOCK"
PREMIUM COCO CARBON, PRODUCED USING ECO-FRIENDLY LOW EMISSIONS PROCESSES

COCONUT CARBON FILTER—"WHITE BLOCK"
ECONOMY COCO CARBON, SAME PERFORMANCE AS GREEN BLOCK, FOR A LITTLE LESS MONEY.

KDF85/CATALYTYIC ACTIVATED CARBON FILTER
PREMIUM CARBON FILTER USING THE BEST ACTIVATED CARBON WITH A BED OF KDF85 MEDIA. THERE'S NO BETTER CARBON AVAILABLE.

SEDIMENT SPUN
SPUN POLY SEDIMENT FILTERS WITH HUGE DIRT HOLDING CAPACITY.



SEDIMENT PLEATED
HIGH FLOW SEDIMENT FILTERS WITH ULTRA LOW PRESSURE DROP.

GXM INDUSTRIAL MEMBRANES
HIGHEST FLOWING DOW SHEET MEMBRANES ON THE PLANET, WITH THE LOWEST WASTE RATIO.

GXM HIGH FLOW COLD WATER MEMBRANES
HIGHEST FLOWING RESIDENTIAL SIZED MEMBRANES.
ALWAYS 2:1 RATIO.

ALKALINE INLINE
INLINE FILTER ADDS CALCIUM & MAGNESIUM TO FILTERED WATER, RAISES THE PH.

ALKALINE CARTRIDGE
CARTRIDGE ADDS CALCIUM & MAGNESIUM TO FILTERED WATER, RAISES THE PH.

REMINERALIZING INLINE
INLINE FILTER ADDS CALCIUM & MAGNESIUM TO FILTERED WATER,

REMINERALIZING CARTRIDGE
CARTRIDGE ADDS CALCIUM & MAGNESIUM TO FILTERED WATER,

UV STERILIZATION
KILLS 99.9% BACTERIA AND VIRUSES.

DI INLINE
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 1000 GPD @ 60 PSI · 2400 GPD @ 180 PSI
GXM-600HF 600 GPD @ 60 PSI · 1400 GPD @ 180 PSI

FLOW RATED AT 65°F WATER TEMPERATURE

PRODUCT	TYPE	MSRP	SYSTEM	NOTES
SPECIALTY FILTRATION, ACCESORIES & REPLACEMENTS				
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
REPLACEMENTS FOR ALL WATER FILTERS 400 GPD AND UNDER					
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 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 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 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
REPLACEMENTS FOR EX400HF-TALL AND SLIMSCRUB					
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 5,300 Gallons RO Water	
CF-2520-KDF	Premium Carbon	EX400-tall, Slim Scrub	71.00	17,000 Gallons Total 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 17,000 Gallons RO	Must for well water and chloramine removal

GROWONIX EX 600/1000 ACCESORIES

ELECTRIC SHUT OFF KIT

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.

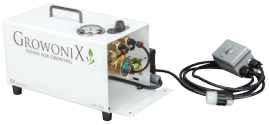
DDP-6

The DDP-6 is the ultimate water delivery pump. With a flow rate of 6.5 GPM, the DDP-6 can move water from on 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 EX600 and EX1000 water filters. Splash Guard™ chassis connects directly to the EX600/EX1000. 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 EX600/1000 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 EX series chassis for easy viewing and adjusting. Easy wall mounting as well.

GXMV 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 unmatchable 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 EX600, EX600, EX600T

Flow Rate:1000 gpd high flow membrane
Membrane replacement for EX1000, EX1000, EX1000T

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 / WHITE BLOCK

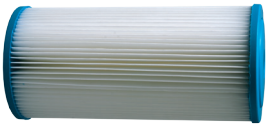
Economy: High purity coconut shell activated carbon filter. Excellent cost to performance value.

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 fitler changes. Comes standard in most GrowoniX water filters.

4.5”x9.75” | 16000 gallons

KDF85/CATALYTYIC 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

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GROWONIX
TUNED FOR GROWING

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.

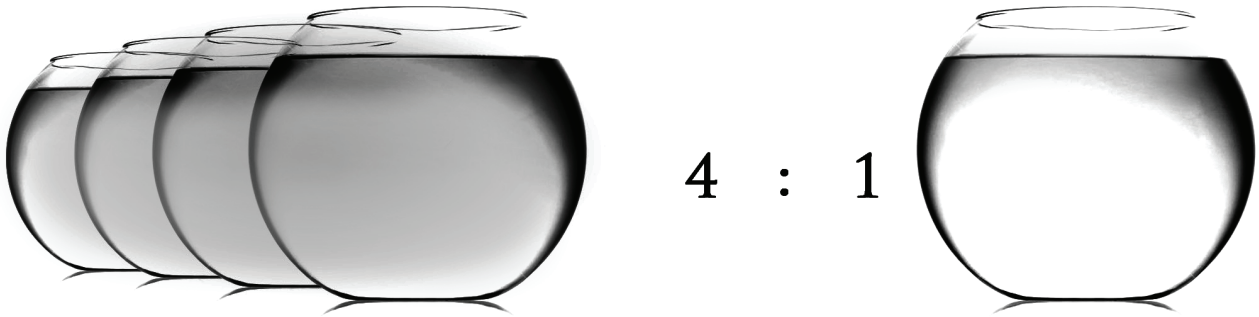
TUNED FOR GROWING - IN TUNE WITH OUR CUSTOMERS

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.

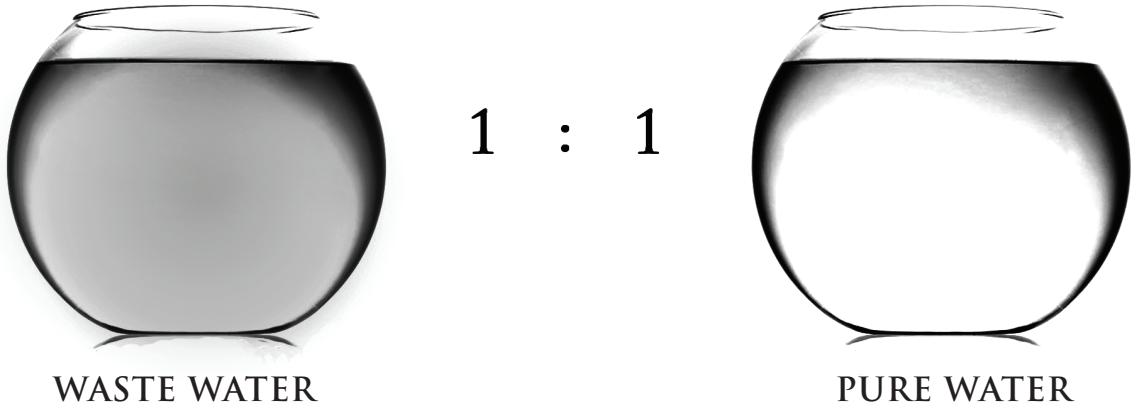
GrowoniX has created a complete product line that will address the needs of hydroponic operations of all sizes. Our filters will significantly reduce your water use while dramatically increasing your yields.

THE TRADITIONAL WAY

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



THE GROWONIX WAY



PRECAUTIONS

- Do not use unit with inlet water pressure exceeding 80 psi. If inlet water pressure is too high, install water pressure regulator before the unit. Regulators and pressure limiters are available at www.Growonix.com or your local plumbing supply.
- Keep unit away from direct light.
  Direct light can cause algae and other biologicals to grow inside of the filter housings.
- Do not install unit near electrical outlets or electrical devices.
- Do not install in places where a leak can cause damage.

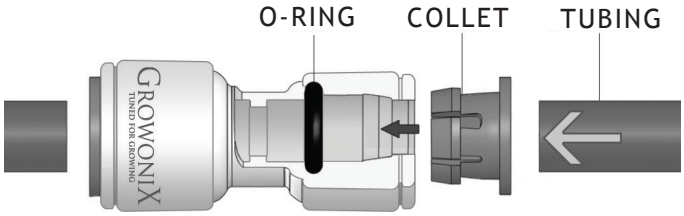
- GrowoniX EX Series RO water filters are rated using supply water that is 77°F, 475ppm, at 70psi. Slower performance may be noted in areas with colder temperatures, higher water salinity, or lower inlet water pressure.
- A minimum of 40psi is recommended to operate GrowoniX water filters. If your inlet water pressure is too low, booster pumps can be used to increase pressure.
  Pumps are available at www.Growonix.com.
- Do not use a flow restrictor other than the one included with your unit.
- Flow restrictors help tune the unit for proper waste ratio.
- Using bigger flow restrictors, or using the unit in areas with exceptionally dirty water, will decrease membrane performance and longevity.

INFORMATION ON QUICK CONNECT FITTINGS

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

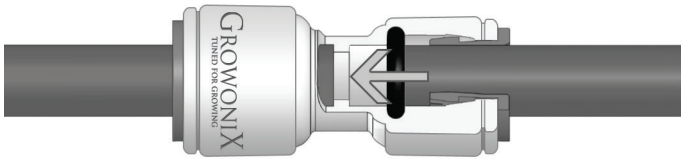
MAKE A CLEAN TUBE CUT

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.



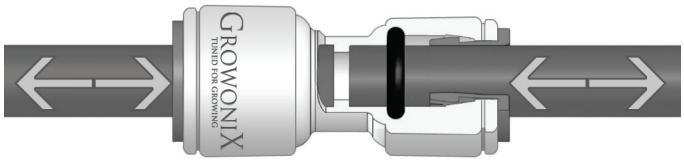
INSERT TUBE INTO FITTING

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

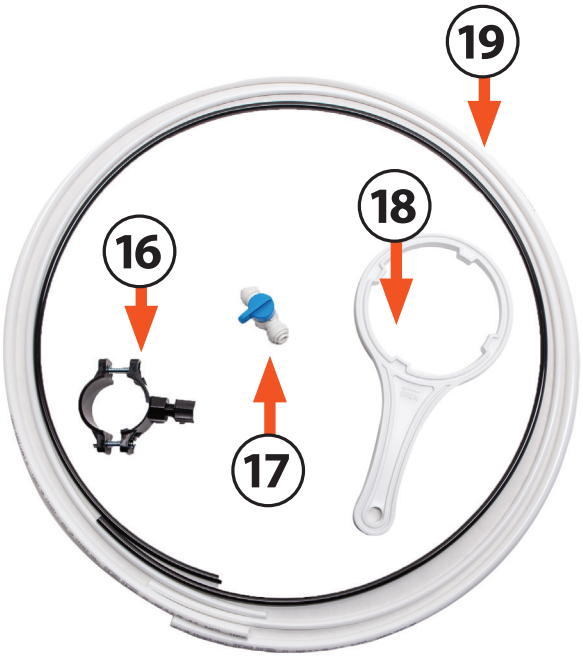
Push and pull the tubing toward and away from the fitting to ensure that it has been installed properly. Test and inspect the installation for any leaks.



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.

COMPONENT DIAGRAM



1. SUPPLY WATER IN
2. INPUT SIDE PRESSURE GAUGE
3. OUTPUT SIDE PRESSURE GAUGE
4. SEDIMENT FILTER
5. CARBON FILTER
6. RO MEMBRANE HOUSING
7. RO MEMBRANE
8. O-RING
9. END CAP
10. SNAP RING
11. FLUSH VALVE
12. FLOW RESTRICTOR
13. DRAIN/WASTE WATER OUT
14. AUTO-SHUTOFF VALVE
15. RO WATER OUT
16. DRAIN SADDLE CLAMP
17. IN-LINE SHUTOFF VALVE
18. FILTER WRENCH
19. RO AND DRAIN TUBING

SETUP INSTRUCTIONS

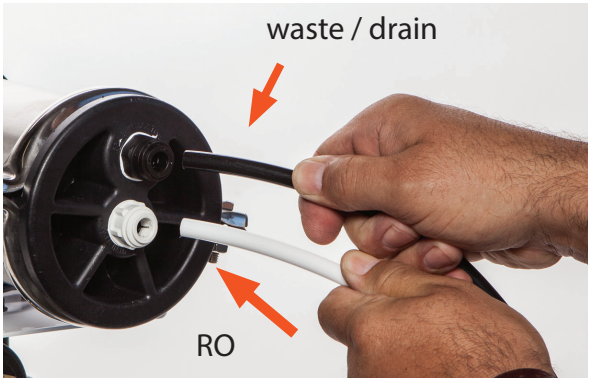
Important Tips:

- Always turn incoming water pressure off before servicing the unit.
- Always turn incoming water pressure on slowly, allowing all air to be discharged from the system before full water pressure is restored.
- GrowoniX GX600 and GX1000 water filters are designed to be used with between 40-80 psi of incoming water pressure. Do not exceed 80 psi of incoming water pressure
- If incoming water pressure is too high, install pressure regulator before unit.
- It is recommended to flush the membrane upon initial startup. (see: Flushing Membrane Element)

1

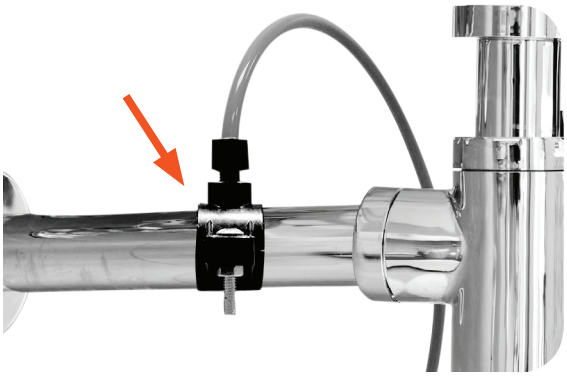
Connect inlet water supply.
This example shows 3/4" garden hose connected to supplied hose union.
Hose fittings can be removed to allow for 3/4" NPT pipe connections.

2



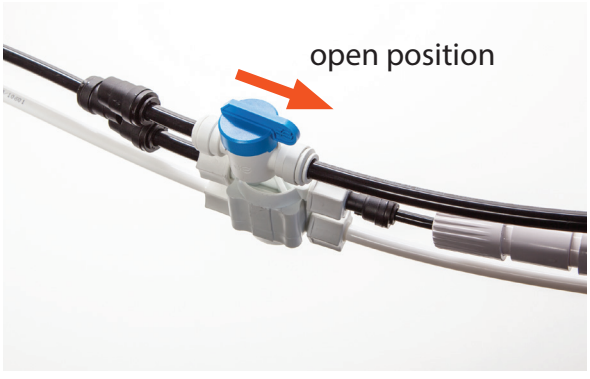
Connect RO and waste / drain assembly to membrane housing as shown.
Make sure tubing is seated completely

3



Mount drain clamp to available drain pipe. Connect other end of drain tubing to included drain clamp.

4



Make sure flush valve is in open position as shown above. This position is for flushing the RO membrane.

5

BEFORE TURNING INCOMING WATER SUPPLY ON, REFER TO NEXT STEP "FLUSHING THE KDF85 CARBON FILTER" ON THE NEXT PAGE

FLUSHING THE KDF85 CARBON FILTER

Growonix EX600 and EX1000 water filters can be upgraded with a KDF85 Catalytic Carbon Pre-Filter. The "KDF" carbon filter is a superior blend of highly reactive catalytic carbon and KDF85 process media used to remove/reduce iron, hydrogen sulfide, chlorine, chloramine, bacteria, scale, and algae.

The catalytic carbon in these filters is in a loose form, and thus will discharge a small amount of carbon dust upon initial startup. It is recommended to unhook the membrane input side and flush ten gallons of water through the carbon filter before re-connecting to the RO membrane. This will ensure no dust gets into the membrane causing premature fouling.

1

With system OFF and depressurized, disconnect fitting from membrane input.

2

Position fitting over drain or bucket and slowly turn on incoming water pressure. Allow ten gallons of water to flush through carbon before reconnecting to membrane input.

WARNING

DISCONNECT TUBING FROM PUMP INPUT OR MEMBRANE INPUT AND FLUSH 10 GALLONS THROUGH KDF CARBON FILTER

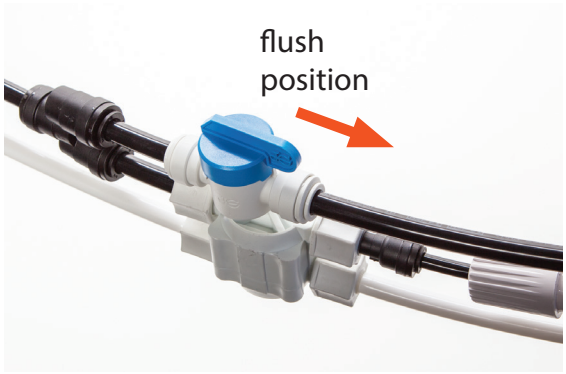
MAKE SURE WATER IS FREE FROM CARBON FINES & DEBRIS BEFORE RECONNECTION TO MEMBRANE INPUT

FLUSHING THE MEMBRANE ELEMENT

Growonix GX600 and GX1000 water filters come with a manual flush valve. Flushing the membrane element after each use for approximately 3-5 minutes will remove standing salts from the membrane, significantly extending membrane life. Even weekly flushes will improve membrane life and system performance.

The flush valve is located on the waste line of the RO membrane. To flush the membrane simply turn the flush valve to the FLUSH position as seen in picture 1. High-pressure water will bypass the flow restrictor and shutoff valve and be sent down the drain, carrying membrane pollutants with it. If using a float valve and the system happens to be OFF due to valve engagement, opening the flush valve will start the system again in flush mode, and the membrane will be cleaned.

1

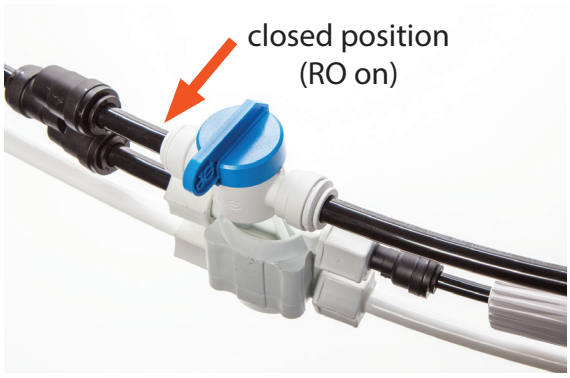


While the system is running, turn the flush valve to the OPEN position.

2

Let system run for 3-5 minutes.

3



After flushing is complete, simply turn flush valve to CLOSED position. Membrane has been flushed.

REPLACING SEDIMENT AND CARBON PRE-FILTERS

GrowoniX EX600 and EX1000 pre-filters should be changed regularly to ensure maximum membrane element life and system performance. When a 30% — 40% differential between the gauges is reached and output water pressure gauges is reached, pre-filters should be changed (i.e., when input gauge reads 80 psi and output gauge reads approximately 50 psi, you have a 30% differential—time to change pre-filters).
The pressure differential is really "pressure drop" caused by dirty pre-filters.

IMPORTANT TIPS

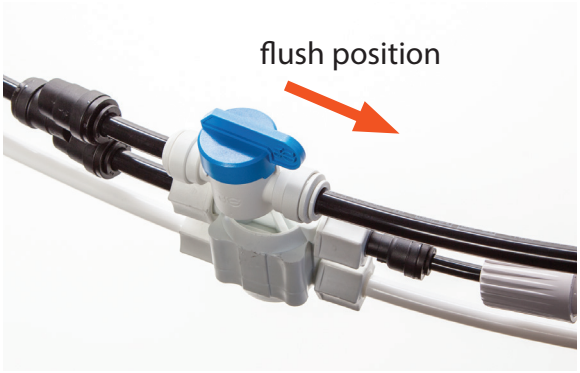
- After changing filters, always turn incoming water pressure on slowly, allowing air to be discharged before full water pressure is restored.
- Be careful not to lose the O-ring when removing each filter housing bottom.

The table below displays pressure gauge readings that will assist you in knowing when to change EX Series pre-filters. Pre filters should be changed when the output pressure gauge reads 30% lower than input pressure gauge (30% pressure differential).

Input Pressure Gauge	Output Pressure Gauge	Pressure Differential
80	56	30%
75	53	30%
70	49	30%
65	45	30%
60	42	30%
55	54	30%
50	35	30%
45	31	30%
40	28	30%

REPLACING SEDIMENT AND CARBON PRE-FILTERS

1



Turn off incoming water supply. Open flush valve to relieve system pressure.

2

Loosen pre-filter housings using supplied filter wrench. Empty standing water and remove old pre-filters. Clean interior of housings to remove standing sediment and debris.

3

Install new sediment & carbon cartridges, making sure sediment cartridge is installed in the housing closest to the input side of the unit.

4

Grease O-rings with food grade silicone grease

5

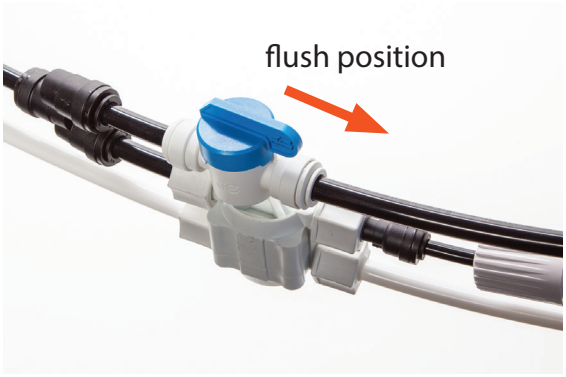
Tighten housings with supplied filter wrench. Close flush valve and begin normal usage. If KDF85 carbon filter is being used, make sure to flush carbon filter before connection to membrane input (see section : Flushing The KDF85 Carbon FIlter)

REPLACING MEMBRANE ELEMENT

IMPORTANT TIPS

- Before servicing membrane element system must be de-pressurized. To de-pressurize the EX600 and EX1000, turn incoming water supply completely OFF and open the flush valve.
- It is suggested that you replace sediment and carbon pre-filters as well when replacing membrane element.
- After replacing membrane turn incoming water pressure on slowly, allowing all air to be discharged before full water pressure is restored.
- End caps can be difficult to re-install.
  To aid in installation, apply continuous pressure to end cap.
  Do not strike the end cap.

1



Turn incoming water supply OFF and open flush valve to depressurize the system.

2

Make sure to depress collet while pulling stem outward.

3

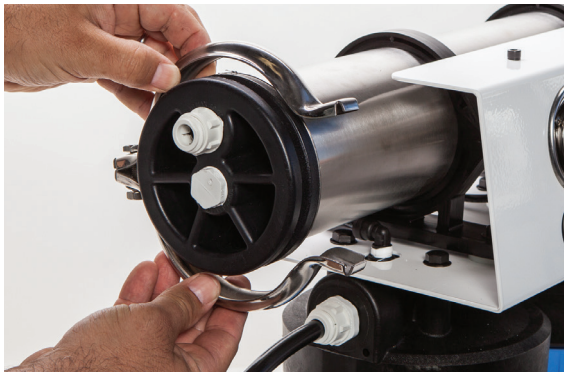
Remove stem elbow from input side of membrane housing.

4

On the input side of the membrane housing, remove the end-cap retaining bolts.

REPLACING MEMBRANE ELEMENT
INPUT SIDE

5



Remove end clamp.

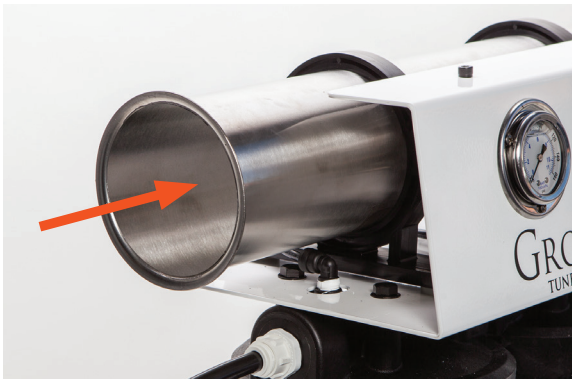
6

Remove the end-cap
and slide membrane out.

7

Pull used membrane element out towards
the input side of membrane housing.

8



Clean inside of membrane housing
to remove buildup or debris.

9

Prepare new membrane element by
applying food grade silicone grease
to the membrane brine seal and both
ends of the center tube.

10

Insert membrane element into
membrane housing making sure that
the brine seal goes in last.

REPLACING MEMBRANE ELEMENT
INPUT SIDE

11

Newly seated membrane element.

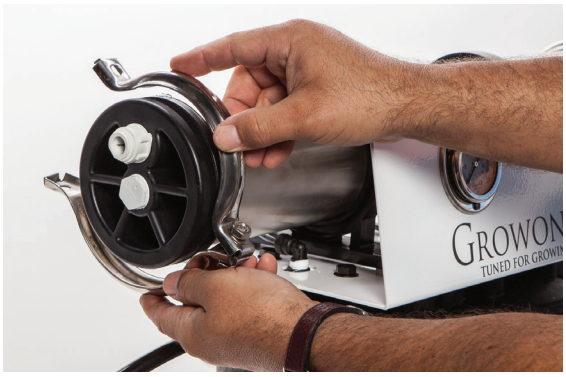
12

Grease brine seal and endcap center hole with food grade silicone grease.

13

Seat end-cap back into input side of membrane housing.

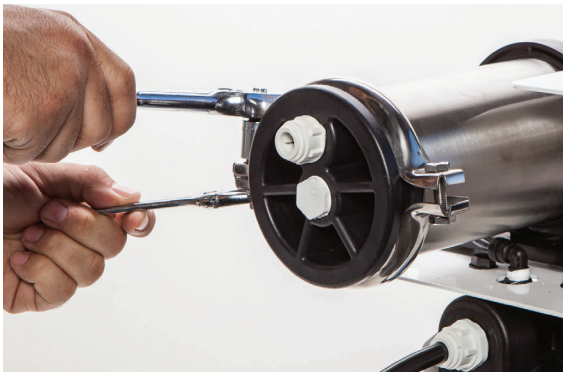
14



Replace end-clamp on input side of membrane housing.

15

16



Tighten end-clamp retaining bolts evenly.

17 Turn incoming water supply ON slowly, allowing air to be discharged, before full water pressure is restored. Let system run in “Flush Mode” for 30 minutes to clear new membrane element. After 30 minutes, close flush valve and begin normal usage. Enjoy.

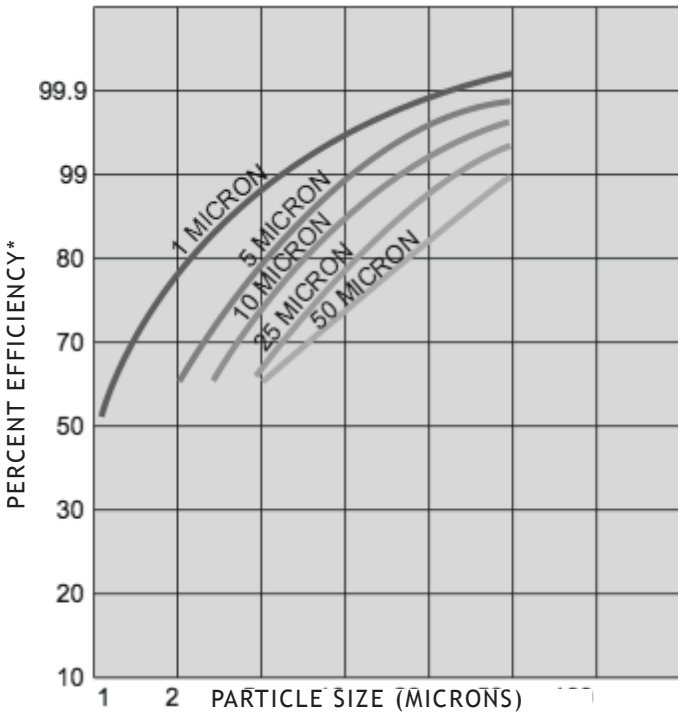
ADDITIONAL SPECIFICATIONS CHARTS

Pleated Sediment Filter 4.5 " Diameter

Materials of Construction:
- Filter Media
- End Caps
- Core
- Temperature Rating
- Non-woven Polyester
- Vinyl Plastisol
- Polypropylene
- 40˚F to 125˚F (4.4˚C to 51.7˚C)

Size Description:
- 4.5" X 10"

Initial AP (PSI) @ Flow Rate (GPM):
- 1 PSI @ 10 GPM (.01 bar @ 38 L/min)

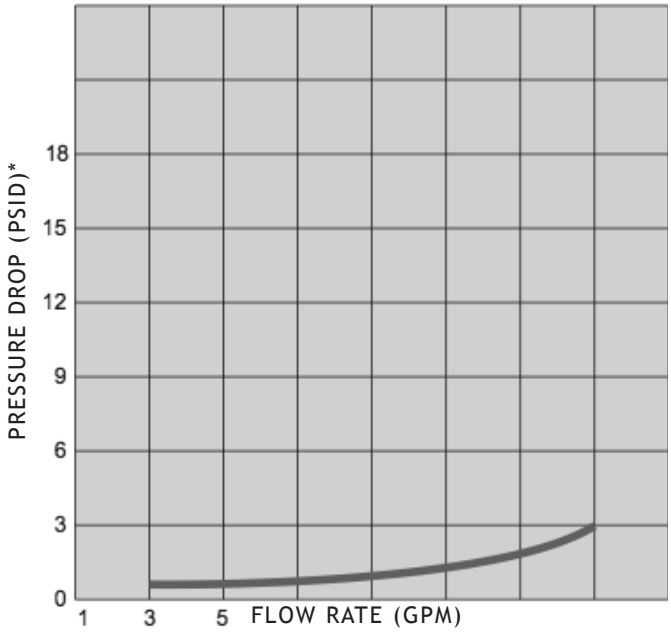


Filter Housings

Materials of Construction:
- Housing: Polypropylene
- Cap: Polypropylene
- Button Assembly: Stainless Steel, EPDM & Polypropylene
- O-Ring: Buna-N

Maximum Dimensions:
- 13-1/2" X 7-1/4"

Initial AP (PSI) @ Flow Rate (GPM):
- 1 PSI @ 30 GPM



MEMBRANE HOUSINGS

Materials:
- NSF Approved PVC Material
- NSF Approved GTX Material
- NSF Approved EPR O-Rings
- Available with 3/8", 1/2", 3/4", & 1" Port Sizes

Specifications:
- Maximum Operating Pressure: 225 PSI
- Maximum Operating Temperature: 110˚F
- Minimum Operating Temperature: 35˚F

ADDITIONAL SPECIFICATIONS CHARTS

Membrane Element

Operating Limits:
- Membrane Type: Thin film composite
- Maximum Operating Temperature: 110˚F (43˚C)
- Minimum Concentrate Flow Rate: 5:1
- pH Range, Continuous Operation: 3-11
- pH Range, Short term cleaning (30 min): 1-12
- Maximum Feed Water Turbidity: 1 NTU
- Maximum Feed Silt Density IndEX (SDI): 5 SDI
- Chlorine Tolerance: 0 PPM

Features:
- High Flow (HF) Ultra Low Pressure Membrane Material
- Tape Over Wrap
- Available Wet Tested
- Made in the U.S.A

Applied Pressure PSI (BAR)
- 600 GPD: 8.0 (5.52)
- 1000 GPD: 8.0 (5.52)

Maximum Pressure PSI (BAR)
- 600 GPD: 400 (27.58)
- 1000 GPD: 400 (27.58)

Permeate Flow rate GPD
- 600 GPD: 600
- 1000 GPD: 1000

Nominal Salt Rejection
- 600 GPD: 600
- 1000 GPD: 1000

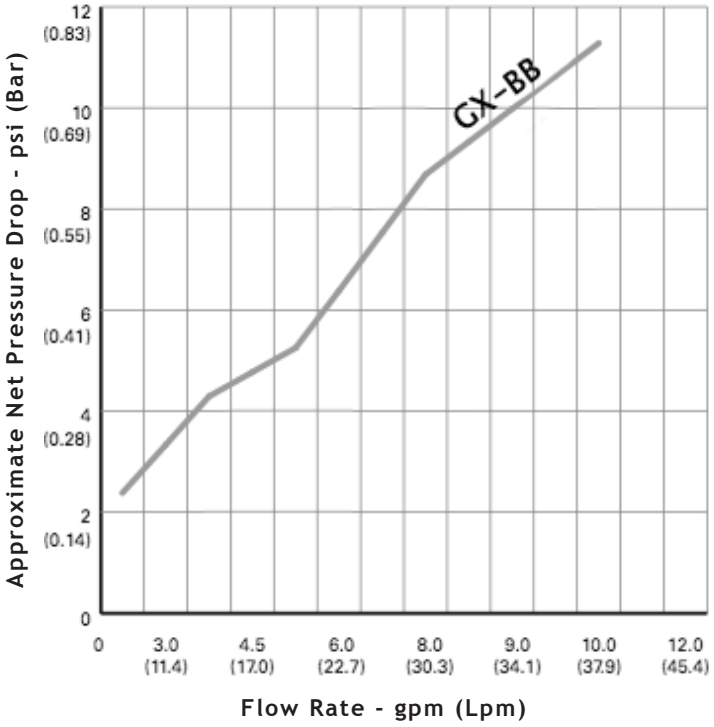
Carbon Filter Cartridge

Materials:
- Filter Media: Granular activated carbon
- Outer Shell: Polyethylene
- End Caps: Polypropylene
- Gasket: Buna-N
- Inner Wraps/Core: Polypropylene
- Temperature Rating: 40 - 125˚F (4.4 - 51.7˚C)

Maximum Dimensions:
- 4 1/2” X 9 1/4”

Initial AP (PSI) @ Flow Rate (GPM):
- 0.90 PSI @ 4 GPM (.06 bar @ 15.1 L/m)

Chlorine, Taste, Odor Reduction Capacity Flow
- >70,000 gallons @ 4 GPM (265,000L @ 15.1 LPM)



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 du e 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.