

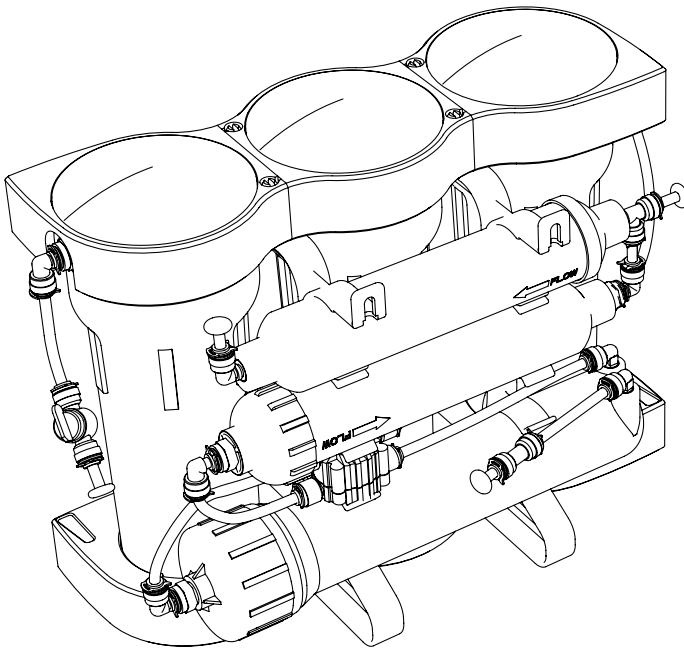


Installer and user guide for domestic reverse osmosis system

PURE BALANCE — URO6PUREBAL

PURE ALKAFUSE — URO6PUREALK

PURE AQUACALCIUM — URO6PURECAL



If you have any questions or concerns when installing, operating, or maintaining your reverse osmosis system, call our toll free number:

+1 (844) 257 4103

or visit briowater.com

When you call, please be prepared to provide the model, date code and serial number of your product.

MADE IN UKRAINE



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Technology, Inc.

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CONTENTS

1	Specifications and components	3
1.1	Specifications and requirements	3
1.2	Water quality	3
1.3	Reverse osmosis system components	4
2	Connection Diagrams	6
2.1	Connection diagram for PURE Balance system	6
2.2	Connection diagram for PURE Alkafuse system	7
2.3	Connection diagram for PURE AquaCalcium system	8
3	Steps for installing reverse osmosis system	9
3.1	Before commencing installation	9
3.2	Installation procedure	9
4	Steps after installation	13
5	Usage	13
5.1	Parts of the filter and their recommended change out rates	14
5.2	The procedure for replacing pre-filter cartridges	14
5.3	The procedure for replacing membrane	15
5.4	The procedure for replacing carbon post-filter and/or mineralizing post-filter	16
6	Sanitization of reverse osmosis filter	17
6.1	Sanitization of pressure tank	19
7	Troubleshooting	21
8	Service record	24
9	Environmental and health safety	26
10	Purchasing	26
11	Transportation and storage	26
12	Warranty	26

1. SPECIFICATIONS AND COMPONENTS

1.1. SPECIFICATIONS AND REQUIREMENTS

	Parameter	Value
1	Main pressure (no booster pump), psi	43 – 87
2	Tank pressure, psi	6 – 9
3	Feed water temperature, °F	39 – 86
4	Weight of the system (base model), pounds	14
5	Water supply connection	3/8" or 1/2" thread
6	Filter dimensions, H x W x D (basic assembly), inches	13.8 x 17.7 x 5.9
7	Tank dimensions, H x W x D, inches	13.8 x 10.2 x 10.2

* If supply water pressure is below required value, purchase pump model or fit your existing filter with a booster pump. If the pressure in the water system is above the limit, a pressure regulator must be installed on the main pipe.

** If pressure in tank bladder is outside this range, the pressure must be increased or released until it conforms to the requirement.

*** If supply water temperature is in the range of +68 – +86 °F, rejection of impurities will be decreased and system capacity increased, bringing about an increase in TDS. Using the product with supply water temperature in excess of +86 °F is not recommended.

1.2. WATER QUALITY

1.2.1. SUPPLY WATER QUALITY REQUIREMENTS*

	Index	VALUE**
1	pH	6.5-8.5
2	TDS	<750 ppm
3	Hardness	<500 ppm CaCO ₃ (<28 °dH)
4	Free chlorine	<0.5 ppm
5	Iron	<0.3 ppm
6	Manganese	<0.1 ppm
7	Chemical oxygen demand	<5 ppm O ₂
8	Total bacterial count (TBC)	<50 CFU/mL
9	E. coli titer	<3

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

* If water supply does not meet the requirements, service life of membrane and/or pre-filter cartridges may be shortened.

** If your home is supplied with raw well water, perform a laboratory test of your water before installing a reverse osmosis filter. If any of your water indices exceed the limit, consider using a water treatment system to correct supply water quality. Refer to water treatment specialists or companies for advice and proper equipment selection.

1. SPECIFICATIONS AND COMPONENTS

1.2.2. QUALITY OF MINERALIZED WATER*

	Index	Pure Balance URO6PUREBAL	Alkafuse URO6PUREALK	AquaCalcium URO6PURECAL
1	pH	7-8.5	6.5-7.5	7-7.5
2	TDS, ppm	60-80	20-30**	55-65**
3	Calcium, ppm	10-15	<10.0	10-15
4	Magnesium, ppm	4-6	—	—

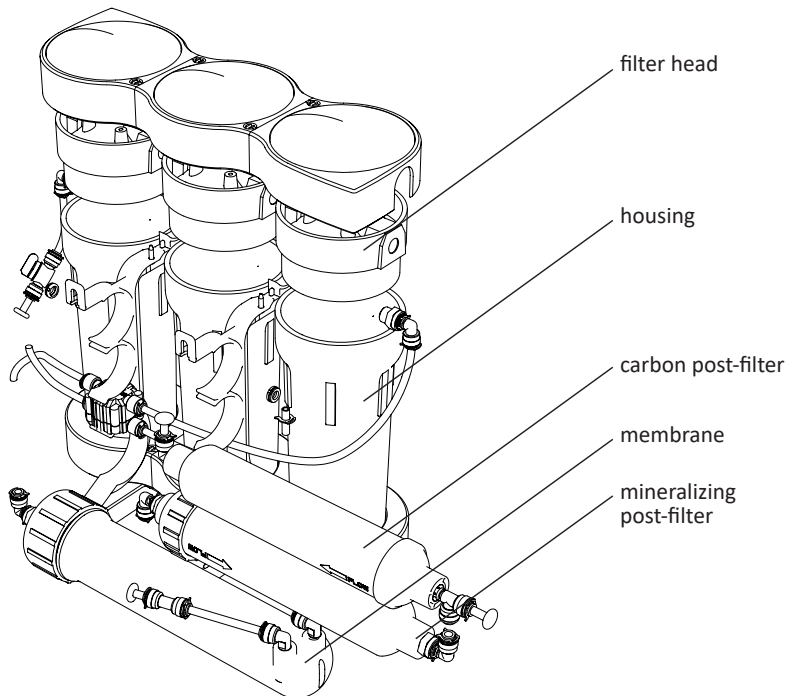
* Values are determined under the following conditions: temperature of supply water is 20 °C (68 °F), supply water quality and operation conditions correspond to manufacturer’s requirements, water consumption is typical for a family of three. As the temperature of supply water drops in winter, the mineral content may be lower, and with increasing temperatures in summer the mineral content may be higher.

** If standby exceeds an hour the content of minerals in the first glass of purified water may be higher than the specified values, as more minerals can dissolve during this period. This is normal and does not impair the quality of the purified water.

1.3. REVERSE OSMOSIS SYSTEM COMPONENTS

The manufacturer reserves the right to modify product design or specific components, if such modification does not negatively impact product performance for the consumer.

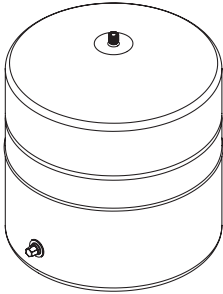
1) Filter rack



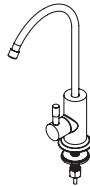
1. SPECIFICATIONS AND COMPONENTS

1.3. REVERSE OSMOSIS SYSTEM COMPONENTS

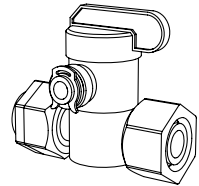
2) Pressure tank



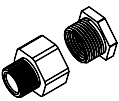
3) Drinking water faucet



4) Inlet water connection



4.1)* Connection kit for 3/8" or 1/2" thread inlet water Adapters



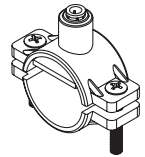
5) Tank valve



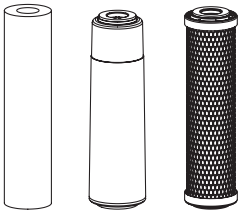
6) Set of colored tubes



7) Drain saddle

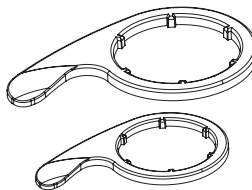


8) Set of pre-filter cartridges

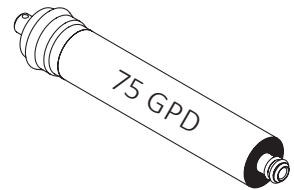


PP5 **GAC** **CTOAG**
 RFCT25105PP RFCT2510GAC RFCT2510CTOAG

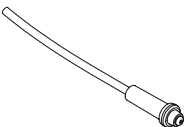
9) Housing and membrane housing wrenches



10) Reverse osmosis membrane RFROM181275



11) Flow restrictor



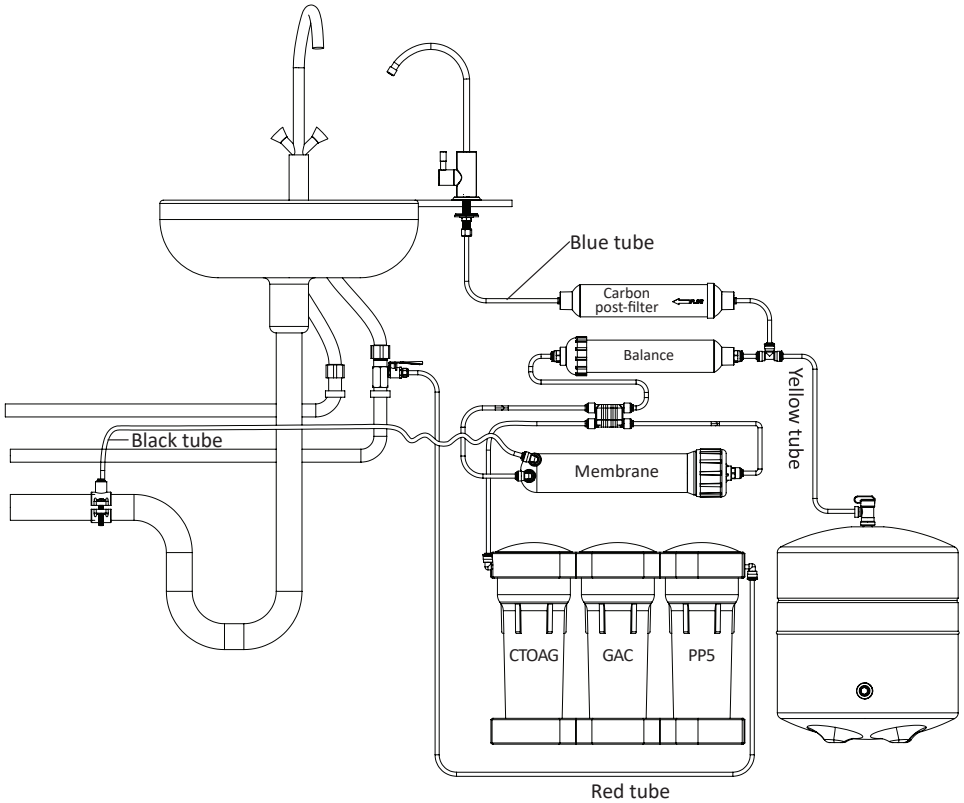
12) Locking clip:

An accessory that secures push-fit connections, preventing accidental disconnection. Presence of clip has no effect on tightness of the connection. Quantity of clips included with your reverse osmosis filter may vary depending on design of the product, and has no bearing on its performance.

* Included with filter assembly of some models.

2. CONNECTION DIAGRAMS

2.1. CONNECTION DIAGRAM FOR PURE BALANCE SYSTEM — URO6PUREBAL

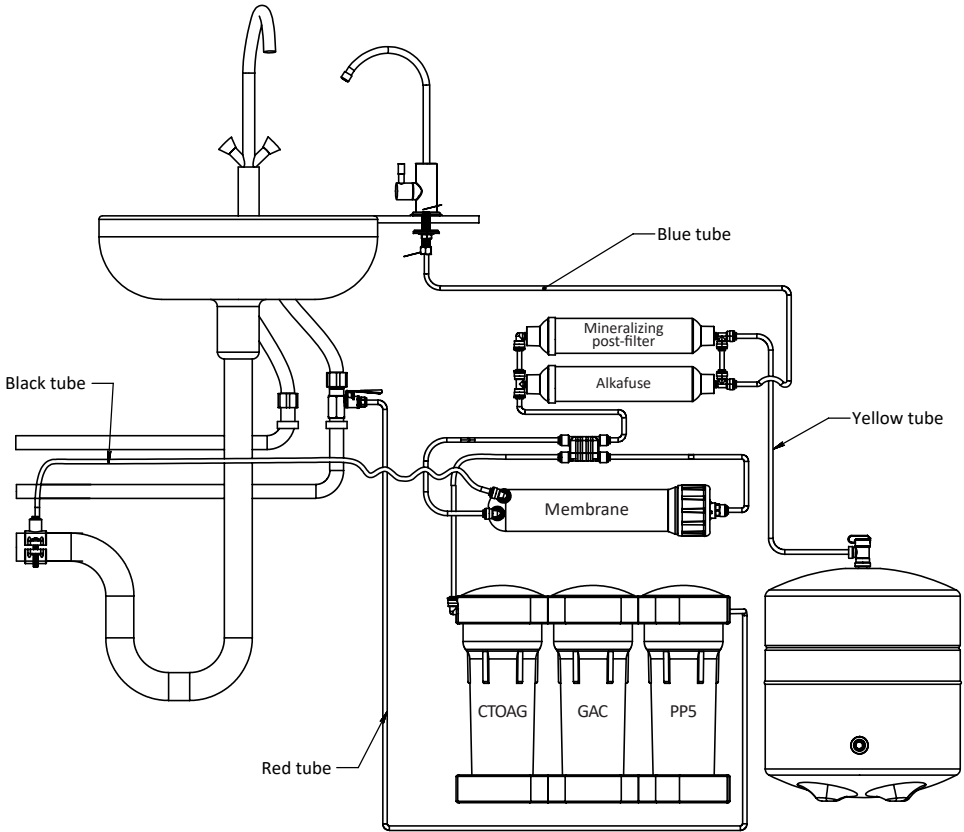


The manufacturer reserves the right to modify product design or specific components, if such modification does not negatively impact product performance for the consumer.

* Model MO6-100MBAL is not certified by WQA.

2. CONNECTION DIAGRAMS

2.2. CONNECTION DIAGRAM FOR PURE ALKAFUSE SYSTEM — URO6PUREALK

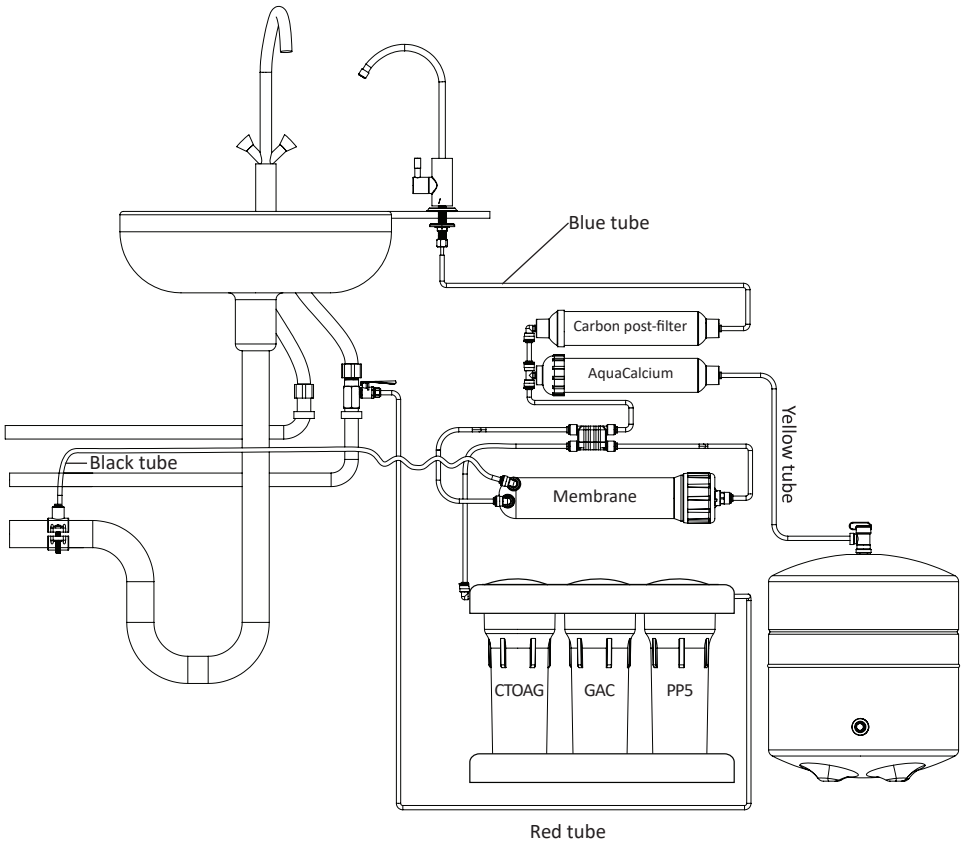


The manufacturer reserves the right to modify product design or specific components, if such modification does not negatively impact product performance for the consumer.

* Model MO6-100MPURE is not certified by WQA.

2. CONNECTION DIAGRAMS

2.3. CONNECTION DIAGRAM FOR PURE AQUACALCIUM — URO6PURECAL



The manufacturer reserves the right to modify product design or specific components, if such modification does not negatively impact product performance for the consumer.

* Model MO6-100MACPURE is not certified by WQA.

3. STEPS FOR INSTALLING REVERSE OSMOSIS SYSTEM

Please carefully read these instructions before installing a domestic reverse osmosis filter. This system must be installed in compliance with local codes.

3.1. BEFORE BEGINNING INSTALLATION

- 1) Check that all parts are in the package. Do not open plastic bags with filter parts until you've verified all parts have been received. Systems with filter part bags that have been opened cannot be returned if system is found to be faulty or incomplete.
- 2) Check conformity of your local variables to required specifications:

Main pressure*	Tank pressure*	Supply water temperature*
Check water pressure at mains before installing the product. Compare to the requirements in paragraph 2.2.	Check pressure in the tank bladder. Compare to the requirements in paragraph 2.2.	Check temperature of supply water. Compare to the requirements in paragraph 2.2.
*Refer to paragraph 2.2 for recommended measurements in case any of the above variables do not meet the requirements.		

- verify that your product is as specified in paragraph 2.2;
 - verify that your supply water quality** meets the requirements in paragraph 2.3.
- **If supply water quality does not meet the requirements, you must consult a water treatment specialist.

- 3) Before installing the system, make sure there is enough space for both the filter rack and the pressure tank under the sink. In case there is not enough available space, the pressure tank can be placed in a separate location provided that the yellow tube's length is sufficient to connect it to the rest of the system.
- 4) Install the system per the guidelines of this manual.
- 5) The unit must be supplied with single-phase 230 VAC, 50 Hz electrical power. The unit is supplied with a power cord and can be connected to a properly installed IEC 60884-1 compliant socket. Electrical specification of the unit can be found on manufacturer's factory sticker. That system and installation must comply with state and local laws and regulations.

3.2. INSTALLATION PROCEDURE

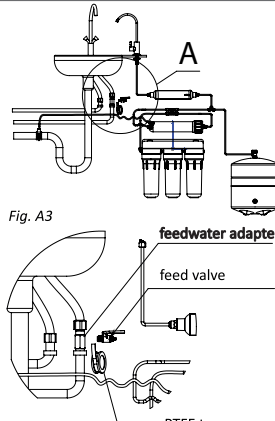
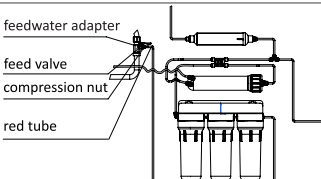
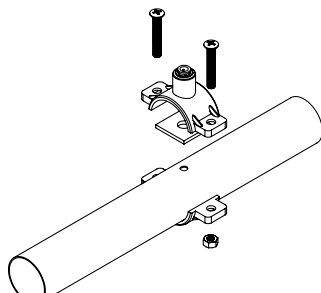
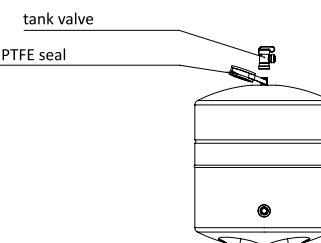
CAUTION! This system has been tested by the manufacturer for leaks, therefore residual water may be present in the system.

Wash your hands thoroughly with antibacterial soap before handling tubes, cartridges, and membrane.

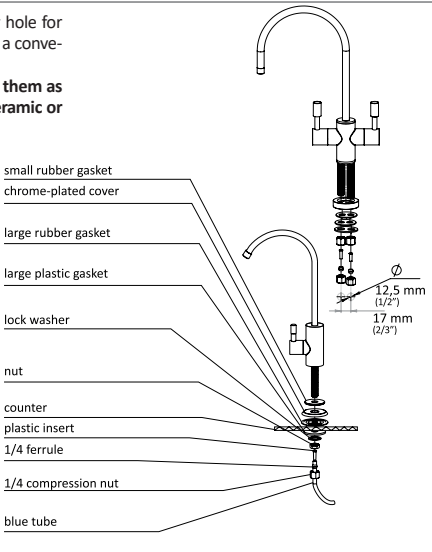
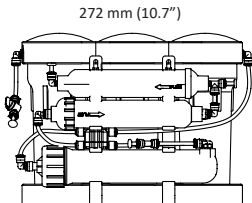
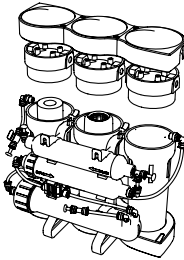
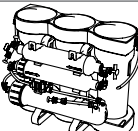
This system must be installed in places protected from direct sunlight and away from heating appliances.

1.	Remove the reverse osmosis system from its packaging and check the equipment. Do not open the bag with components. Note that you will not be able to claim missing parts if the bag is opened.
2.	Shut off water supply in your kitchen or whole home and open water faucet where you are going to install the system (e.g., your kitchen sink) for 1 minute to relieve pressure in the system, and then close it.

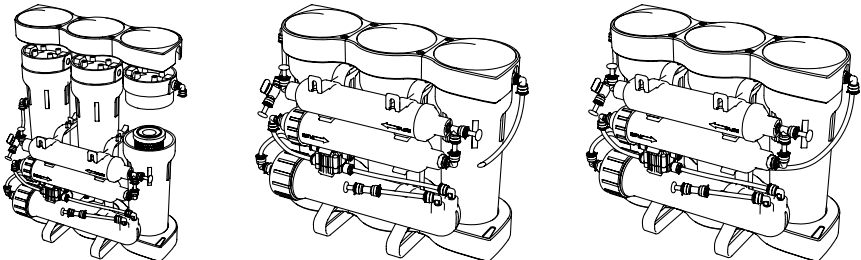
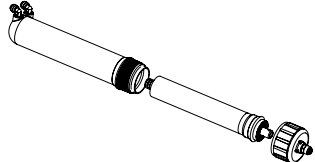
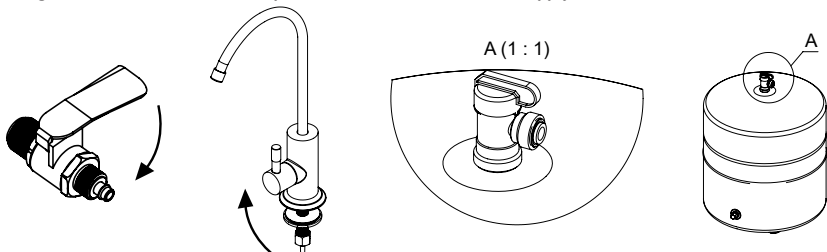
3. STEPS FOR INSTALLING REVERSE OSMOSIS SYSTEM

<p>3.</p>	<p>Screw the feedwater adapter 4 into the cold water line. Screw the feed valve 5 into the feedwater adapter 4. To help prevent water leaks use PTFE sealing tape.</p> <p>Connection size has been selected to fit most common ½ inch pipes. If your pipe is another size, install an appropriate adapter.</p>	
<p>4.</p>	<p>Unscrew the compression nut from the feed valve 5 and put it on the red tube. Push the red tube into the end of feed valve's fitting and screw on the compression nut. Connect the free end of the red tube with the quick connect fitting of the first (rightmost) housing in the rack.</p>	
<p>5.</p>	<p>Connect the drain saddle 8 to the drain pipe from the kitchen sink. The drain saddle is compatible with most standard drain pipes. Drill a hole 0.2 in. (5.0 mm) in diameter in the kitchen sink drain pipe. Position rubber gasket (included in package) over pipe hole, sticky side facing pipe, and apply securely to pipe. Install the drain saddle 8 on drain pipe over hole. Tighten screws on drain saddle with a screwdriver. Insert black tube into the connection on the clamp (figure 4). Connect the other end of the black tube with concentrate outlet of membrane housing.</p> <p>CAUTION! Check if flow regulator 12 is installed in the black tube in the end connected to membrane housing.</p> <p>CAUTION! If RO systems do not use air gap faucets, they must be plumbed in with a physical air gap between the wastewater outlet and the drain. This will ensure that if the drain backs up, sewage will not push up into the RO system.</p>	
<p>6.</p>	<p>Add 5-6 wraps of PTFE tape to tank knob and hand tighten tank valve – do not overtighten, which may cause damage. Close the tank valve.</p> <p>IMPORTANT! Check air pressure in empty tank. Tank should be pressurized to 0.4-0.6 bar (5.8-8.7 psi). If necessary, use a pump with a pressure gauge to increase the pressure or press the core of the valve stem to relieve pressure.</p>	

3. STEPS FOR INSTALLING REVERSE OSMOSIS SYSTEM

<p>7.</p>	<p>Installation of the faucet.</p>
<p>7.1</p> <p>To install drinking water faucet 3 drill 12.5 mm (1/2") diameter hole for single way tap or 17 mm (2/3") diameter hole for two way tap in a convenient location at the sink or countertop.</p> <p>Caution! Metal filings can damage your unit. Carefully remove them as soon as you have drilled the hole. If the mounting surface is ceramic or stone, you may need a special carbide drill.</p>	 <p>The diagram shows a faucet assembly with various components labeled: small rubber gasket, chrome-plated cover, large rubber gasket, large plastic gasket, lock washer, nut, counter, plastic insert, 1/4 ferrule, 1/4 compression nut, and blue tube. Dimensions are indicated: 12.5 mm (1/2") for a single way tap and 17 mm (2/3") for a two way tap.</p>
<p>7.2</p> <p>Mount the faucet on the sink or countertop as shown in the figure. Nut, lock washer and plastic washer on the faucet shank must fix the faucet firmly on the surface.</p>	<p>7.3</p> <p>Take the blue tube, and in the following order, slide on compression nut, ferrule, then insert plastic insert into tube.</p>
<p>7.4</p> <p>Push the blue tube as deeply as possible into the bottom of the faucet's shank, ensuring the compression nut is in the joint. Screw on the compression nut in order to join the tube to the faucet.</p>	<p>7.5</p> <p>Installation of the double lever faucet (for a system with mineralizing post-filter) is done similarly.</p>
<p>8.</p>	<p>Select where you are going to install the filter and make two holes in the wall. The distance between the holes must precisely correspond to that between the holes in the bracket. Allow for at least 100 mm (3.9") gap between the bottom of the filter and floor. Install screw anchors if necessary and screw in two screws (not included). The distance between the holes is 272 mm (10.7").</p> 
<p>9.</p>	<p>Insert cartridges into the first and the second housings in the direction of water flow (right to left).</p> 
<p>10.</p>	<p>Tighten all the three housings by hand.</p>
<p>11.</p>	<p>Unplug the tube that connects the third housing (in the direction of water flow) with the auto shut-off valve from the valve.</p> 

3. STEPS FOR INSTALLING REVERSE OSMOSIS SYSTEM

<p>12.</p>	<p>Open the water tap 5 and flush the first two pre-filters with 5-7 liters (1.5-2 gallons) of water to wash off the carbon fines (black in colour) that may appear in cartridges during shipping. Then close feedwater valve before installing the third cartridge. CAUTION! This water will pour through the tube disconnected from auto shut-off valve. Be sure to prepare a vessel to collect it.</p>
<p>13.</p>	<p>Insert the cartridge into the third sump along water flow direction and attach the sump back again. Reconnect the free end of the tube to the auto shut-off valve.</p> 
<p>14.</p>	<p>Install membrane 11 into the membrane housing. CAUTION! Cut the plastic bag to install the reverse osmosis membrane. Install the membrane without first unpacking it by pushing it into the housing directly from the bag. Avoid touching the membrane and only hold it covered with the bag.</p> 
<p>15.</p>	<p>Leave the feed valve 5 and purified water faucet 3 open for 30 minutes. Then open the tank valve 6. Close faucet 3 and carefully check all connections for leaks. CAUTION! The first week after installation, check the system daily for leaks, then do it periodically. If you are leaving for a long time such as for a business trip or vacation, shut off the water supply.</p> 
<p>16.</p>	<p>Allow the water tank to fill completely. (you will hear the water stop flowing). Depending on the water pressure in your water mains, this may take 1.5 to 3 hours. After that, drain all water from the tank by opening faucet 3 until the flow goes to a drip or slow dribble. After the tank has been emptied, close faucet 3 so that the tank refills. Depending on the pressure in your water mains, this may take 1.5 to 3 hours. After the tank is filled for the second time, you can use purified water. In the filtration systems that include a mineralizing post-filter, the purified water can be slightly turbid after installation. Drain several additional tanks of purified water.</p>
<p>17.</p>	<p>Initially your water may appear cloudy. This is due to air in the system, which is normal. Water will eventually run clear as air is flushed out of the system. If your initially dispensed water is cloudy, leave the glass for a few minutes and allow air to dissipate.</p>

4. STEPS AFTER INSTALLATION

VERIFICATION OF THE UNIT'S OPERATING PARAMETERS

1. Measure time needed to fill the tank. Tank is filled when the dumping of the concentrate into the drain has stopped. The value obtained is dependent on the supply water pressure (pressure in water mains).

2. Measure recovery (proportion of supply water that becomes purified). You will need a 1 L (1 quart) measuring cup and stopwatch.

Shut off tank valve 6, open faucet 3 and measure time that the unit takes to produce 1 L (1 quart) of permeate (purified water), then close faucet 3. Write down the result (t_{Permeate} in the equation below).

Disconnect the black tube connected to sink drain from drain saddle. Open faucet 3 and measure time that the unit takes to produce 1 L (1 quart) of concentrate (waste water), then close faucet 3 and open tank valve 6. Write down the result ($t_{\text{Concentrate}}$ in the equation below). Calculate recovery using formula:

$$R, \% = \frac{t_{\text{Concentrate}}}{t_{\text{Permeate}} + t_{\text{Concentrate}}} \times 100\%$$

Where t is the number of seconds to obtain 1 L (1 quart) of water, R is recovery.

3. Measure TDS of supply water and TDS of purified water using a calibrated TDS meter.

4. Check if the auto shut-off valve functions properly. Close tank valve 6 and faucet 3. The unit must stop operating (water should stop being discharged to drain) within 10 minutes.

5. Check the unit for leaks.

6. Advise unit owner on filter maintenance and encourage them to read this manual.

7. Make record of commissioning in the maintenance log in paragraph 9 of this manual.

8. The reverse osmosis system contains a replacement treatment component, critical for the effective reduction of total dissolved solids. Product water must be tested periodically to verify that the system is performing properly.

5. USAGE

The domestic reverse osmosis system is designed for purification of cold water only.

If the filling time of the tank increased, this means that the pre-filter cartridges have expired and should be replaced immediately. Delay in the replacement of cartridges can lead to deterioration or destruction of the membrane.

To avoid such critical situations, it is strongly recommended that **pre-filter cartridges be changed at least once every 3 months**.

If the rate of filtration drops significantly and is not improved by replacing pre-filters, the reverse osmosis membrane must be replaced.

To enjoy purified water of consistent quality, **replace the reverse osmosis membrane at least once every 1-1.5 years**.

In case of prolonged downtime (2 weeks or more), the system must be sanitized as described in paragraph 7.

If the system is not going to be used for an extended period of time, it is strongly recommended the water supply be shut off.

5. USAGE

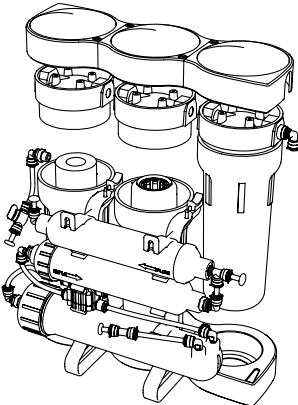
5.1. PARTS OF THE FILTER AND THEIR RECOMMENDED CHANGE OUT RATES

Stage of filtration	Name of cartridge	Term for replacement
First, second, third	Pre-filters for reverse osmosis	Once every 3 months
Fourth	Reverse osmosis membrane*	Once a year
Fifth, sixth	Carbon post-filter, Brio mineralization filter, AquaCalcium mineralization filter, AquaSpring mineralization filter	Once every six months

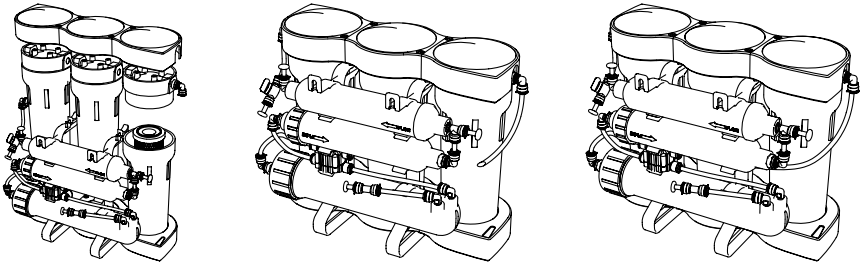
To purchase replacement components, visit briowater.com

* This reverse osmosis system contains a replaceable component critical to the efficiency of the system. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to ensure the same efficiency and contaminant reduction performance.

5.2. THE PROCEDURE FOR REPLACING PRE-FILTER CARTRIDGES

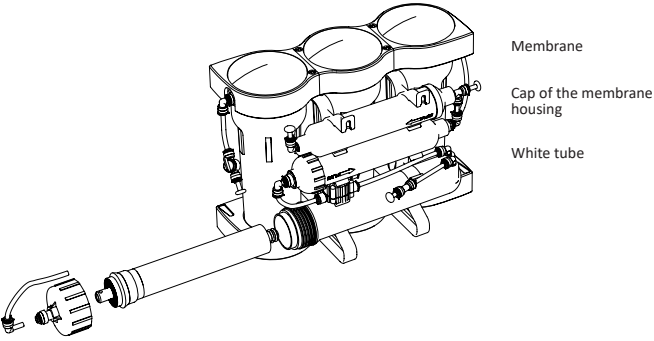
1.	Shut off feed valve 5 and tank valve 6 .	
2.	Wash your hands with antibacterial soap.	
3.	Use sump wrench 10 to unscrew first and second sumps in water flow direction (right to left). Be careful as the sumps are filled with water.	
4.	Remove the used filter cartridges.	
5.	Wash sumps with unscented soap and a clean sponge, then rinse thoroughly with water.	
6.	Insert the new cartridges in the first and second sumps in water flow direction (right to left).	
7.	Disconnect the tube stemming from the third sump from the auto shut-off valve.	
8.	Open feed valve 5 and flush the first two installed cartridges with 5-7 liters (1.5-2 gallons) of water to rinse the carbon dust that may have been produced in cartridges during shipping. CAUTION! This water will pour through the tube disconnected from auto shut-off valve. Prepare a vessel to collect it.	

5. USAGE

9.	Remove the third pre-filter's sump from filter head. Be careful as it is filled with water.
10.	Remove the used filter cartridge and wash the sump with unscented soap and a clean sponge, then rinse thoroughly with water.
11.	Insert new cartridge into the third sump. Screw the sump back on and let through at least 4 more liters of water to flush the carbon dust. Close feed valve 5 and reconnect the tube with the auto shut-off valve.
	
13.	Open tank valve 6 .
14.	Open feed valve 5 .

5.3. THE PROCEDURE FOR REPLACING MEMBRANE

(Membrane replacement should be performed by a qualified specialist)

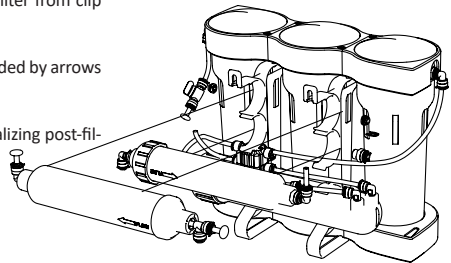
1.	Turn off water supply to the system (feed valve 5), shut off tank valve 6 .
2.	Open purified water faucet 3 to relieve permeate pressure.
3.	Disconnect the white tube from the inlet in membrane housing cap.
4.	Unscrew membrane housing cap.
5.	Remove used reverse osmosis membrane 11 (remember which end of the membrane goes where).
	

5. USAGE

6.	Lubricate rubber seals of the fresh replacement membrane and membrane housing cap sealing. CAUTION! To avoid damage to the membrane, only use food grade glycerol as lubricant.
7.	Install the fresh membrane into the housing, observing its direction and position in the tube. CAUTION! Cut the plastic bag to install the reverse osmosis membrane. Install the membrane without unpacking it by pushing it into the housing directly from the bag. Avoid touching the membrane directly. Hold it only with the bag.
8.	Screw on the housing cap.
9.	Connect the white tube to the membrane housing inlet.
10.	Close purified water faucet 3 .
11.	Open tank valve 6 .
12.	Open feed valve 5 .
13.	Once the tank is full (you will hear the water stop flowing), drain all water from the tank into the sink by opening faucet 3. When the water stops running, close faucet 3 and allow the tank to refill. Depending on the pressure in your water mains, filling may take 1.5 to 3 hours. After the second tank refill, you can safely use the purified water.

5.4. THE PROCEDURE FOR REPLACING CARBON POST-FILTER AND/OR MINERALIZING POST-FILTER

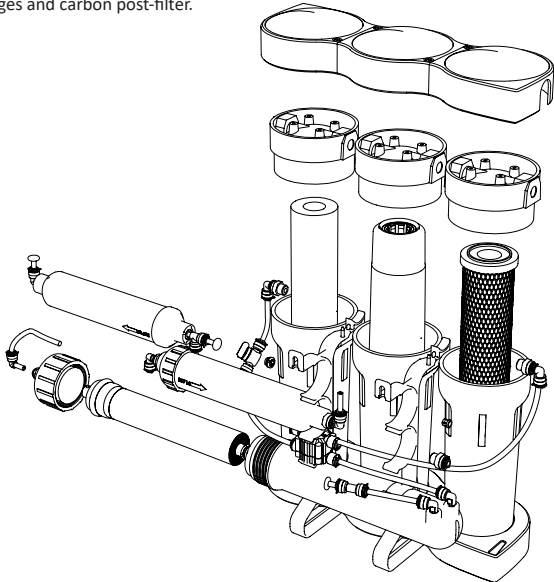
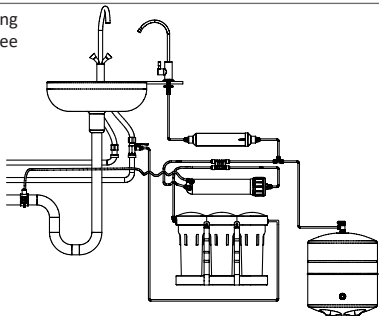
1.	Turn off water supply to the system (feed valve 5). Shut off the tank valve 6 .
2.	Open the purified water faucet 3 to relieve permeate pressure.
3.	Disconnect the tubes that connect the carbon post-filter / mineralizing post-filter to the rest of the system (remember which goes where).
4.	Remove the used carbon post-filter / mineralizing post-filter from clip brackets.
5.	Install new carbon post-filter / mineralizing post-filter, guided by arrows that indicate the direction of water flow.
6.	Connect the tubes to the new carbon post-filter / mineralizing post-filter to connect it to the system.
7.	Open feed valve 5 . Open tank valve 6 .
8.	<p>Once the tank is full (you will hear the water stop flowing), drain all water from the tank into the sink by opening faucet 3. When the water stops running, close faucet 3 and allow the tank to refill. Depending on the pressure in your water mains, filling may take 1.5 to 3 hours. After the second tank re-fill, you can safely use the purified water.</p> <p>In the models with a mineralizing post-filter, the purified water can be slightly turbid after installation. If necessary, drain several additional tanks of purified water.</p>



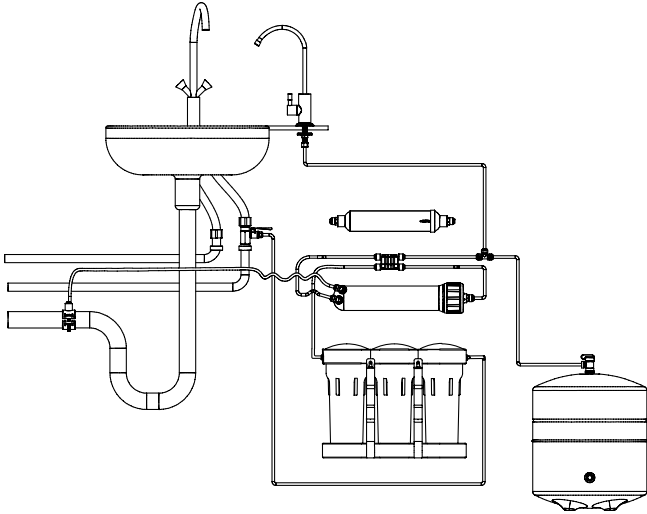
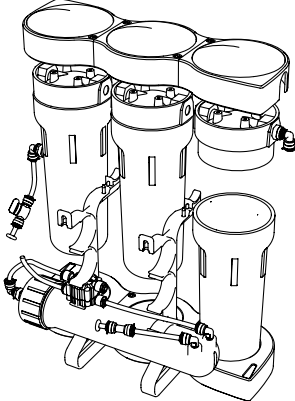
6. SANITIZATION OF REVERSE OSMOSIS FILTER

Sanitization of the reverse osmosis filter is recommended after it has been in use for an extended period (~ 6 months), and when the filter is not going to be used for 3 or more weeks at a time. Sanitizing the system is also recommended when replacing cartridges.

Using chlorine disinfectant tablets is recommended for reverse osmosis filter sanitization.

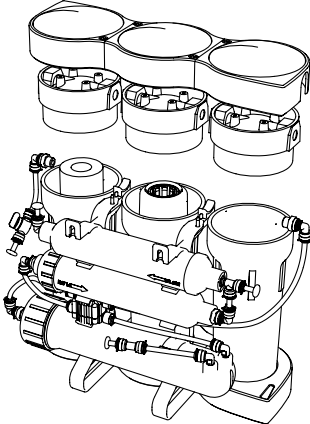
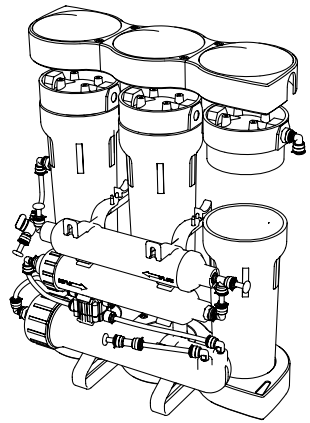
1.	Shut off feed valve 5 and tank valve 6 .
2.	Remove and discard the pre-filter cartridges and carbon post-filter. 
3.	Unscrew cap of membrane housing and remove membrane using needlenose pliers if necessary. Seal membrane in a clean plastic bag and place in refrigerator at +2 – +5°C (36 – 41 °F).
4.	Reattach 2 nd and 3 rd pre-filter sumps, screw on membrane housing cap, and connect the tube from the faucet directly to the union tee without carbon post-filter. 

6. SANITIZATION OF REVERSE OSMOSIS FILTER

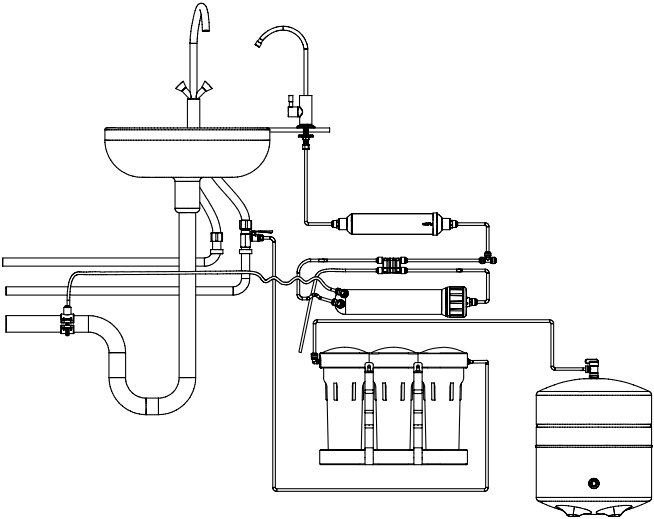
<p>4.</p>	
<p>5.</p>	<p>Place a chlorine tablet in the 1st sump. Fill the sump with water and screw on.</p> 
<p>6.</p>	<p>After 15 minutes, open the drinking water faucet <u>3</u> and feed valve <u>5</u>.</p>
<p>7.</p>	<p>When water running from faucet <u>3</u> starts to smell like chlorine, close both faucet <u>3</u> and feed valve <u>5</u>.</p>
<p>8.</p>	<p>Leave the system for 2-3 hours.</p>
<p>9.</p>	<p>Open faucet <u>3</u> and feed valve <u>5</u> and let water run until bleach odor is gone.</p>
<p>10.</p>	<p>Install all consumable parts back into the system. Open tank valve <u>6</u> and feed valve <u>5</u>.</p>
<p>11.</p>	<p>Drain the tank and refill at least twice (until chlorine odor is gone).</p>

6. SANITIZATION OF REVERSE OSMOSIS FILTER

6.1. SANITIZATION OF PRESSURE TANK

1.	Turn off feed valve <u>5</u> .
2.	Open faucet <u>3</u> and empty the pressure tank into the drain.
3.	Close tank valve <u>6</u> .
4.	<p>Remove pre-filter cartridges.</p> 
5.	<p>Re-install 2nd and 3rd sumps (in the direction of the water flow) on filter.</p> 

6. SANITIZATION OF REVERSE OSMOSIS FILTER

<p>6.</p>	<p>Disconnect the tube going to the storage tank from the union tee before the carbon post-filter, and into 3rd pre-filter's outlet.</p> 
<p>7.</p>	<p>Place a disinfection tablet in the 1st housing . Fill the housing with water and screw on.</p>
<p>8.</p>	<p>After 15 minutes, open tank valve 6.</p>
<p>9.</p>	<p>Open feed valve 5 for 5 minutes.</p>
<p>10.</p>	<p>Close tank valve 6 and leave the tank filled with chlorine solution for 1-2 hours.</p>
<p>11.</p>	<p>Open tank valve 6 and drain all water from the tank to the sink. Disconnect it from the third pre-filter and restore the original tubing of the system.</p>
<p>12.</p>	<p>Put cartridges in sumps and install the sumps on their heads. Then, open tank valve 6 and feed valve 5.</p>
<p>13.</p>	<p>Drain the tank and refill at least three times (until chlorine odor is gone).</p>

7. TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Fitting leak	Tube is not joined tightly	Remove and rejoin the tube
Drain saddle leak	Drain saddle is not installed properly	Reinstall drain saddle as described in paragraph 4.2 of this manual
Pre-filter sump leak	O-ring seal is lacking or misaligned	Check that the O-ring seal is properly aligned in the groove inside sump
	Sump is not joined tightly	Tighten the sump till snug
Water runs too slowly from the faucet or slows down substantially a few seconds after the faucet is opened	Supply water pressure too low	This RO system requires at least 3 bar to function properly. If necessary, install a pressure booster pump or consult a plumber
	Pre-filter cartridges are clogged	Replace pre-filter cartridges
	Membrane is clogged	Measure permeate flow rate by closing tank valve 6 and opening faucet 3. Use a measuring cup to check if the time it takes to produce 1 L drinking water is as follows: – 8 minutes with 50 gpd membrane; – 5-6 minutes with 75 gpd membrane; – 4 minutes with 100 gpd membrane. If it took twice as long or more to produce 1 liter of water, the membrane may need to be replaced (refer to the store where you bought this product)
	A tube is kinked	Straighten the tube
	Pressure tank is deflated	Pressure in the empty tank should be 0.4-0.6 bar (6-9 psi). Charge the tank to the above pressure
High noise	Air in the auto shut-off valve	The air will go away by itself with continued operation of the system
	Supply water pressure too high	Check your supply water pressure. If necessary, install a pressure regulator or consult a plumber

7. TROUBLESHOOTING

Auto shut-off valve knocks	Pressure surges in water mains	Install a check valve on the main pipe in your kitchen or at the point of entry of your home's water supply. Refer to a plumber.
The system is always on (water is drained continuously)	Supply water pressure is too low	This RO system requires at least 3 bar (44 psi) to function properly. If necessary, install a pressure booster pump or consult a plumber
	Pre-filter cartridges are clogged	Replace pre-filter cartridges
	Membrane is clogged	Measure flow of product water by closing the tank valve and opening the faucet. Measured flow rate should correspond to nominal membrane flow rate.
	Missing or misplaced flow restrictor	Flow restrictor must be installed in the tube running from membrane housing to drain. Flow restrictor must face membrane housing. If it faces drain saddle fitting, clean it and swap ends of the tube so that it is placed at the outlet of membrane housing. If flow restrictor was not installed, install one.
	Failure of auto shut-off valve	The RO system operating ceaselessly while the tank is full may be due to automatic shutoff valve failure. Contact the store where you bought this product if no other possible cause can be established
	Failure of check valve in the transition fitting installed at membrane housing permeate outlet	Pressure in the empty tank should be 6-9 psi (0.4 – 0.6 bar). Charge the tank to the above pressure if necessary
	Pressure tank is deflated	Open drinking water faucet and let some water run. It is normal for the system to stand idle when the pressure tank is full of water.
The system will not turn on (no water runs to sink drain)	Pressure tank is full	Open drinking water faucet and let some water out. It is normal for the system to stand idle when the pressure tank is full of water.
	Flow restrictor is clogged	Clean or replace flow restrictor
	Drain saddle fitting is not centered on drain pipe hole	Correctly position the drain saddle

7. TROUBLESHOOTING

<p>Drinking water has a milky or cloudy appearance that goes away after a few minutes</p>	<p>Air in the system</p>	<p>Some air in the system is normal for a few days after the system was installed. In some cases, air bubbles may appear due to supply water being significantly lower temperature than your home's ambient temperature</p>
<p>Water has a taste and/or odor</p>	<p>Carbon post-filter has expired</p>	<p>Replace the post-filter</p>
	<p>Preservative solution in the membrane has not been flushed out</p>	<p>Drain all the water from the tank and let the system refill it</p>
	<p>Contamination in reverse osmosis system</p>	<p>Sanitize the system per instructions in section 7</p>
	<p>Contamination in pressure tank</p>	<p>Replace the tank or sanitize per instructions</p>
<p>Pressure tank holds too little water</p>	<p>Tank bladder is overpressurized</p>	<p>Pressure in empty tank should be 0.4-0.6 bar (6-9 psi). Make sure pressure in your tank is in line with the above figures</p>
<p>No water is dispensed from faucet despite full tank</p>	<p>Tank bladder is underpressurized</p>	<p>Pressure in empty tank should be 0.4-0.6 bar (6-9 psi). Make sure pressure in your tank is in line with the above figures</p>
	<p>Tank valve is closed</p>	<p>Open tank valve</p>

8. SERVICE RECORD

The manufacturer strongly recommends keeping a record of your system's operation. Information recorded in this log will help specialists carry out maintenance or repair if needed. Also, this information may be requested by the manufacturer in case any malfunctions are encountered.

COMMISSIONING

Commissioning date, DD: MM: YY	
Main pressure	
Sanitization performed, YES / NO	
TANK FILL DURATION, HH: MM	
Recovery, %	
Recommendations	
Further information about installed equipment: name, date of installation (Example: pressure regulator, pump, POE water filter, etc.)	
Seller's identity	
Installer's identity	

Installation works were completed. The product was tested and is fully functional. No claims as to product quality and/or installer's performance were encountered.

Owner _____

Signature / Name

Installer _____

Signature / Name

8. SERVICE RECORD

MAINTENANCE LOG

Type of job					
Consumables used for the job: product, date of manufacture, serial number (example: cartridges, membrane)					
Sanitization performed, YES / NO					
Tank fill duration, HH: MM					
Recovery, %					
Recommendations					
Date of maintenance, DD: MM: YY					
Servicing company name					
Installer's name					
Servicing company contact information					
Signature					

9. ENVIRONMENTAL AND HEALTH SAFETY

The product does not have any chemical, radiological, electrochemical impact on the environment. The product is not regarded as hazardous by their impact on the human body, meets requirements of relevant sanitary legislation for its intended scope of use.

10. PURCHASING

It is recommended this product be purchased from authorized sales establishments. When buying, check integrity of packaging, absence of mechanical damage and other defects, contents of the system (without opening the plastic bags), availability of user documentation, particularly this manual.

11. TRANSPORTATION AND STORAGE

Shipping of the product may take place by any means of transport (except unheated during cold seasons in colder climates) in accordance with the rules of transportation of goods, applicable to each type of transport. Observe handling labels when handling and shipping the product. Product should be stored indoors with protection from mechanical damage, impact of moisture and aggressive chemicals. Store this product in the manufacturer's original packaging at ambient temperatures ranging from 5 °C to 40 °C (from 41 °F to 104 °F) and relative humidity up to 80%, at least 1 m (3.3 ft) away from heating equipment.

12. WARRANTY

Brio ("Vendor") warrants to the original purchaser of the Brio Water Filters (the "Product"), and to no other person, that if the Product is assembled and operated in accordance with the printed instructions accompanying it, then for a period of one (1) year from the date of purchase, all parts in the Product shall be free from defects in material and workmanship. This Limited Warranty shall be limited to repair or replacement of parts, which prove defective under normal use and service and which Vendor shall determine in its reasonable discretion upon examination to be defective.

To take advantage of this Limited Warranty, please follow these steps:

1. Please retain your sales slip or invoice, as Vendor may require reasonable proof of your date of purchase.
2. Contact Vendor's Customer Service Department using the contact information listed below.
3. Return parts to Vendor, per Vendor's instructions, at your cost and expense.
4. Upon receipt by Vendor, Vendor shall advise you in writing whether a defect covered by this Limited Warranty exists in any returned part and whether your claim has been approved or denied.
5. Upon Vendor's approval of your claim, Vendor will replace such defective part without charge to you.

WHAT THIS LIMITED WARRANTY DOES NOT COVER: This Limited Warranty does not cover any failures or operating difficulties of the Product due to accident, abuse, misuse, alteration, misapplication, improper installation or improper maintenance or service by you or any third party, or failure to perform normal and routine maintenance on the Product, as set out in the User's Manual. In addition, this Limited Warranty does not cover damages to the finish, such as scratches, dents, discoloration or rust after purchase. This Limited Warranty is the only express warranty given on the Product and is in lieu of all other express warranties. Vendor disclaims all warranties for products that are purchased from seller other than authorized retailers or distributors.

12. WARRANTY

THIS LIMITED WARRANTY RESTRICTS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE ONE (1) YEAR TERM OF THIS LIMITED WARRANTY. UPON THE EXPIRATION OF THE ONE (1) YEAR TERM OF THIS LIMITED WARRANTY, VENDOR DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, THE PRODUCT BEING THUS SOLD AS-IS, WITH ALL FAULTS. FURTHER, VENDOR SHALL HAVE NO LIABILITY WHATSOEVER TO PURCHASER OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. OTHER THAN THIS LIMITED WARRANTY, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. Vendor assumes no responsibility for any defects caused by third parties. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state. State law may also override statements in this Limited Warranty regarding the restriction on the duration of implied warranties. Some jurisdictions do not allow exclusion or limitation of special, incidental or consequential damages, or limitations on how long a warranty lasts, so the above exclusion and limitations may not apply to you.

WARRANTY REGISTRATION CARD

**ONLY THE ORIGINAL WARRANTY REGISTRATION CARD
WITH SIGNATURE AND STAMP OF THE DEALER IS VALID**

Product: **WATER PURIFICATION SYSTEM**

Model: _____

Code: _____

Serial №: _____

Date of manufacture: _____

Guaranteed service life: **12 months from the date of sale**

_____ date of sale

_____ dealer company

_____ seller (name and signature)

