



Ultra High Efficiency REVERSE OSMOSIS MANUAL

For file reference, please record the following data:

Model No: _____

Serial No: _____

Installation Date: _____

Installation Location: _____

When ordering replacement parts for your Drinking Water Units or Accessory, please include the complete Model Number and Serial Number of your unit.

Reverse Osmosis Systems

The Water Tec Signature Series Ultra-High Efficiency Reverse Osmosis systems are built with water conservation in mind. These systems offer high production and low water waste compared to standard systems. What makes these systems so efficient? We are utilizing 121 membrane technology, this new technology allows for greater recovery and less water waste this technology also leaves more of the minerals in your water than traditional R.O. This means your **Water Tec U.H.E.** will give you high purity, healthy drinking and cooking water and be environmentally friendly all at the same time, up to 1.6 to 1 recovery*. The UHE offers 50gpd production and 80-90% rejection of TDS compared to traditional R.O. which has a rejection of 95-99% and has a recovery as low as 5:1!

The Permeate pump on the U.H.E. is a simple, yet revolutionary, device. Powered only by the hydraulic energy of brine water usually lost to the drain (i.e. no electricity required), the Permeate Pump forces product water into the storage tank, reducing membrane back pressure and maximizing available feed pressure. These pumps dramatically improve the efficiency of R.O. water production, reducing wastewater by up to 80%.

INSTALLATION INSTRUCTIONS

1 EQUIPMENT LOCATION

Make sure that there is enough space under the counter for installation. Locate the COLD water shut off and drain pipe. The RO unit requires about 16"H X 15"W X 6" D. The storage tank is 11" in diameter and 20" high.

Shut off the COLD water supply under the sink. Open the COLD water faucet on the sink to relieve pressure. On single handle faucets, the hot water may have to be turned off to prevent any hot water crossover. If the existing valve is inoperable, or the water continues to come out of the faucet, the house main will have to be turned off.

NOTE: Universal Plumbing Code (UPC) requires that systems with pressure above 80 psi must have a pressure regulator installed at the water inlet to dwelling.

2 FEED WATER CONNECTION

FEED ADAPTOR: Install the provided feed valve adaptor on to the angle stop. The valve provide is 3/8" compression and has a 1/4" RO feed tap with ball valve. Please see instruction included with the feed valve.

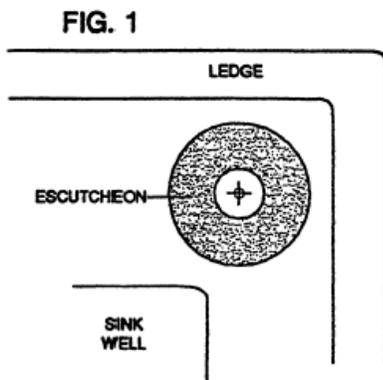


Feed Valve Adaptor

3 FAUCET

The faucet should be positioned with aesthetics, function and convenience in mind. An ample flat area is required for the faucet base so that it can be drawn down tight. Conditions that may be present which could eliminate the need to drill a hole in the sink: if a hole was previously installed in the sink and covered by a chrome hole cover; remove the spray hose and plug the outlet under the main faucet. Be sure to check if the spray used a diverter at the base of the spout. If so, remove it to avoid trouble later. Spray diverter may pop up and shut off water to the main faucet.

If space is not available on the upper sink area, the faucet could be located in the counter top at the edge of the sink. Be careful to watch for obstruction below, i.e., drawers, cabinet walls, support braces, etc. If the counter top is ceramic tile, the method for drilling the hole would be the same as for porcelain sinks.



The sink drilling process, although not complicated, requires a certain amount of caution and forethought. Porcelain or stone sinks/ counter tops can be chipped if care is not exercised when drilling the hole for the faucet assembly.

NON-AIRGAP HOLE DRILLING PROCESS:

Only a 1/2" hole is required for the NON AIRGAP faucet. To drill the hole, begin with a small drill bit and graduate to larger drill bits until a 1/2" hole is achieved. Make sure when starting to drill, to begin slowly through the porcelain portion of the sink so that chipping is cut down to a minimum.

AIRGAP HOLE DRILLING PROCESS:

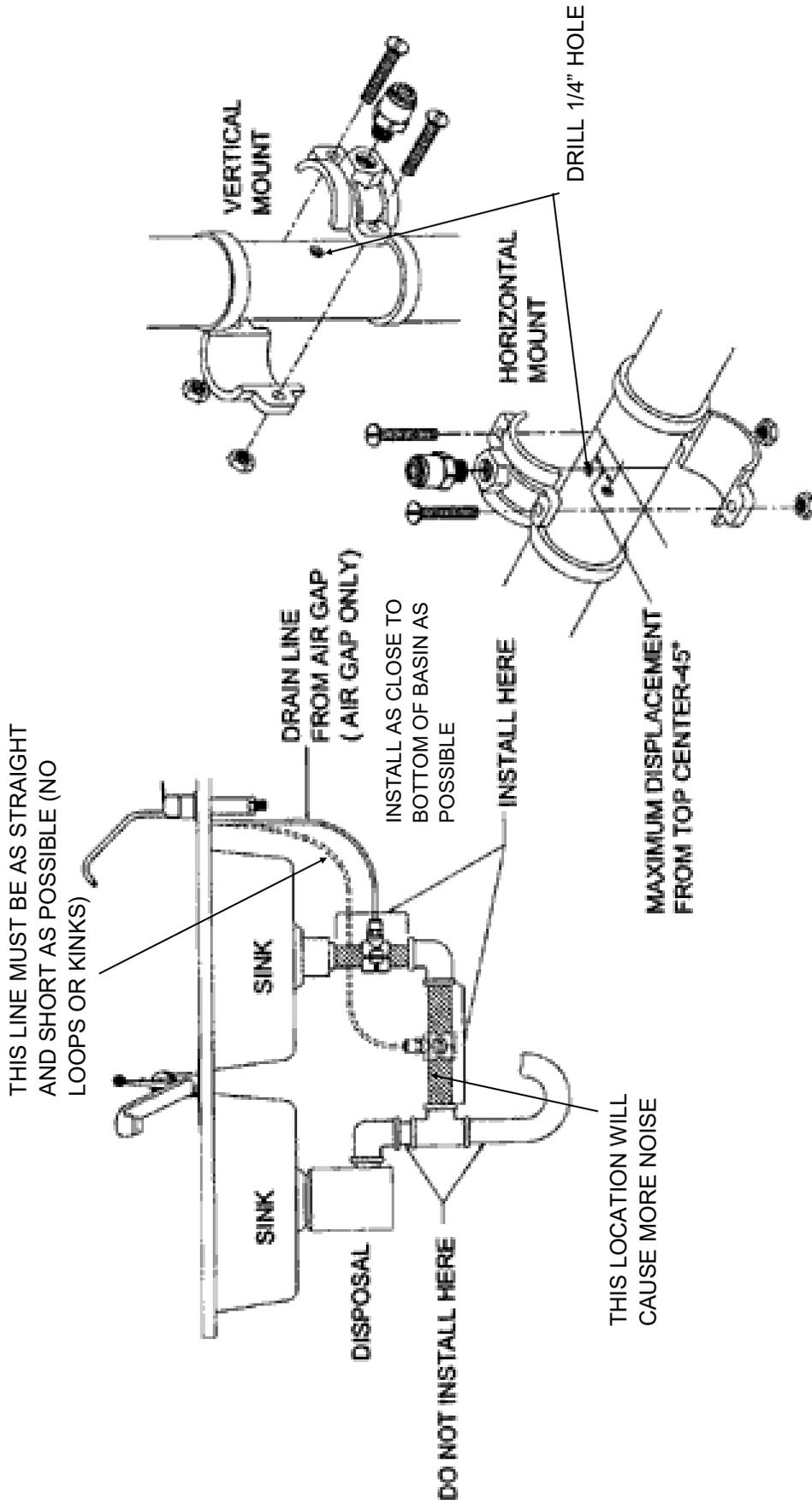
A 1 1/4" hole is required to install Air Gap Faucets. This should be done only by a trained / qualified Professional.

4 DRAIN CLAMP CONNECTION

Use one of the black plastic drain clamp provided in the installation kit, which fits most standard drain sizes of 1-1/4". Install drain clamp above the P-trap as close to the bottom of the basin as possible and drill a 1/4" hole where the plastic fitting is to be installed. Install the drain connection fitting. 1/4" and 3/8" are provided.

NOTE: IF USING DRAIN LINE ADAPTOR (DLA) FOLLOW INSTRUCTIONS ENCLOSED WITH DLA KIT.

Air- Gap Faucet Installation



Horizontal Drain Line:

Locate drain hole as close as possible to top of pipe (between 45° and top) and as far as practical from garbage disposal.

Vertical Drain Line:

Locate drain hole on a straight length of drainpipe next to "P"/"S" trap between trap and sink.

**** SPECIAL ADAPTORS ARE AVAILABLE FOR CONNECTION TO A GARBAGE DISPOSAL**

5 SYSTEM HOOK UP

1/4" RED LINE: Connect from system to feed adaptor. (Use an insert and sleeve provided in installation kit.)

3/8" BLUE LINE: Install the 7/16" compression x 3/8" Quick-connect fitting onto the faucet shank and connect the blue line to the adaptor.

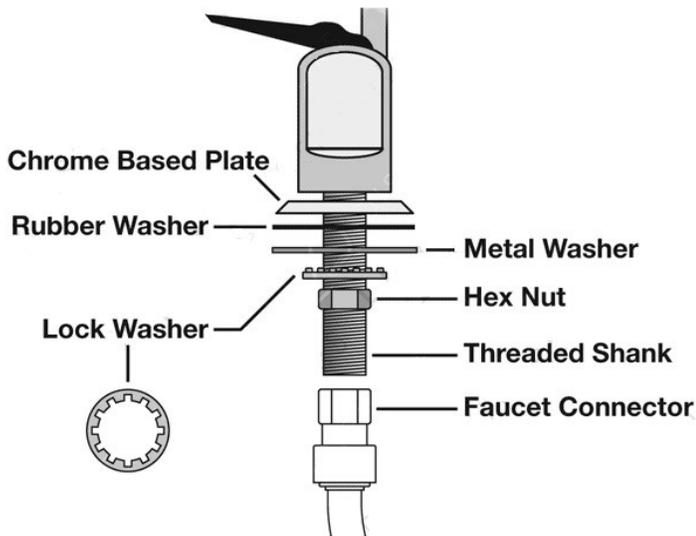
1/4" YELLOW LINE: Connect from system to holding reservoir. (Use ball valve included in installation kit).

1/4" BLACK LINE: Connect to drain clamp fitting using 1/4" insert provided in installation kit or to Air-Gap Faucet. (3/8" Drain Line From the AG faucet to the 3/8" drain clamp.

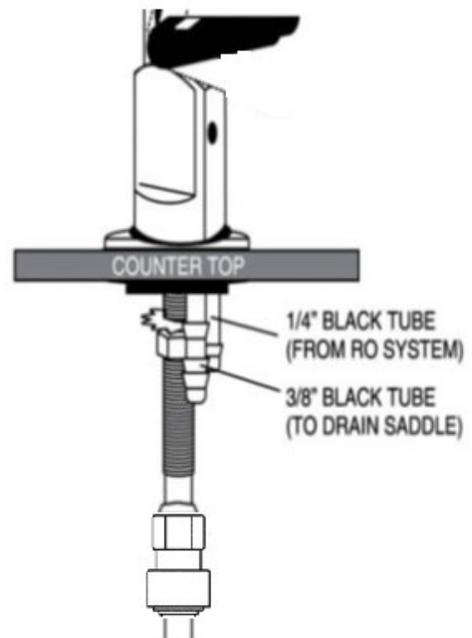
FAUCET: Disassemble the bottom portion of a faucet, put into hole of sink and reassemble faucet from underneath the sink. (See below)

SYSTEM START UP: Slowly open angle valve (on feed adapter) allowing raw water to enter system. Leave faucet open until water is running, then close RO faucet. Move ball valve lever on storage tank to open position.

CHECK FOR LEAKS: Allow system to run while cleaning up tools. Check all connections, including those inside the unit for leaks. Before use, allow tank to fill (1.5hours minimum), then drain the tank completely from the RO faucet to flush out sanitizer and carbon fines. Allow system to refill.



Standard Non-Air Gap Faucet



Air Gap Faucet

350UHE

RED: Cold Water Supply
BLUE: Processed Water (faucet)
YELLOW: Connect to Tank
BLACK: To Drain

FILTERS:

1-DFX Sediment/ Carbon Pre-filter CF-DFX-CB-10
1-GAC/ Mineralizing Post Filter CFA-CAL/COR/CAR-10
**Optional Post Filter 0.5MICRON Carbon Block CF-CB10-0.5 **

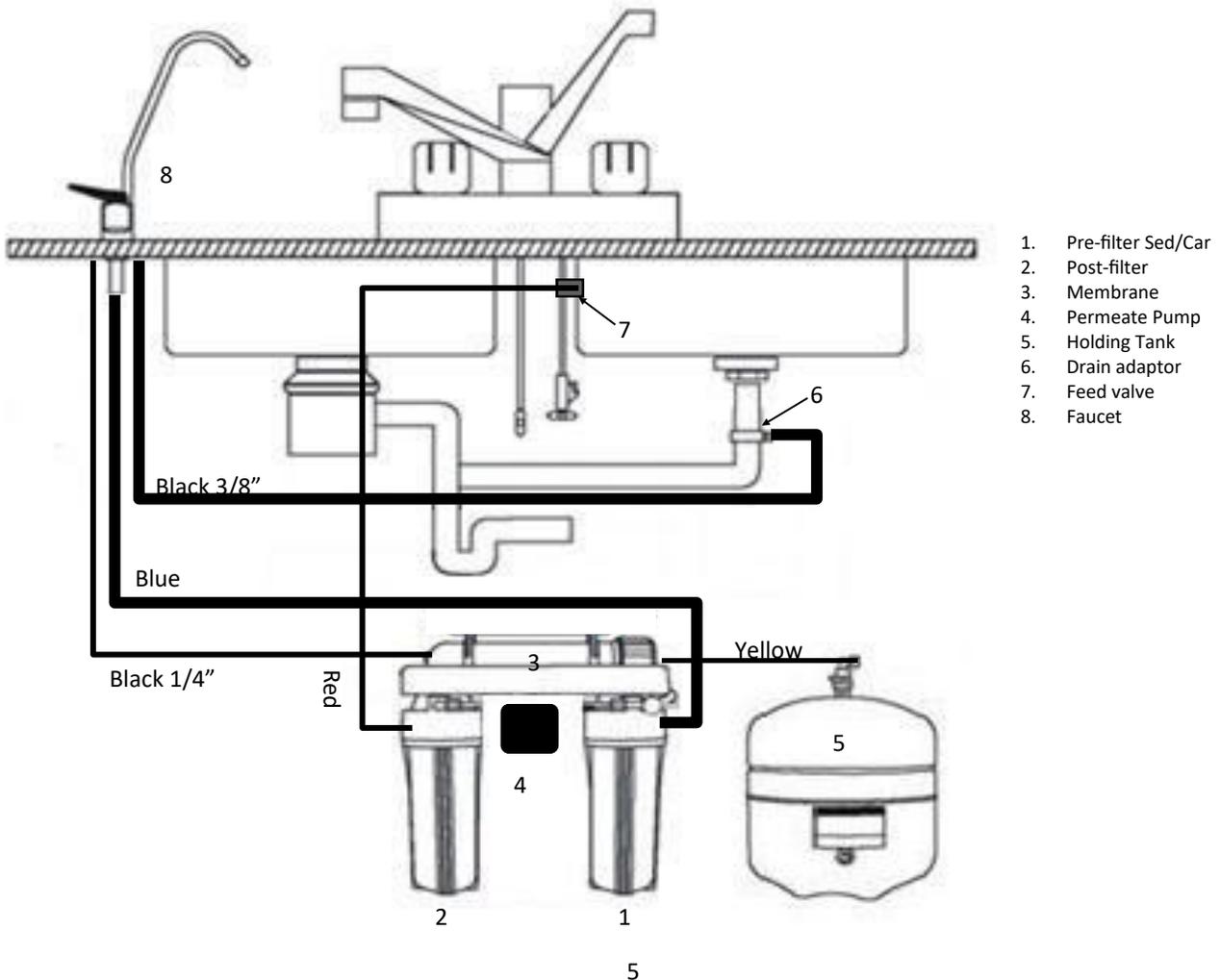
MEMBRANE

ROC-MEM-121-50
ROC-MEM-GRO-50EN (Old style encapsulated)

Serial No.: _____

Date of Installation: _____

We recommend that this system be inspected by a qualified service technician on a yearly basis. The expected life of this equipment is approximately Ten (10) years dependent on local water conditions including but not limited to minerals, additives and water pressure.



FIVE YEAR WARRANTY

Water Tec of Tucson warrants each new Reverse Osmosis unit to be free from defects in materials and workmanship under normal use within the operating conditions listed below. For a period of **FIVE YEARS** from date of purchase we will repair or replace any part of this Reverse Osmosis unit which we find to be defective in operation because of faulty materials or workmanship. This warranty is valid only to the original owner, installed at the original location by authorized service personnel. There are two exceptions the disposable filter cartridges are not warranted, and the membrane is covered for manufacturing defects only and pro-rated as follows:

3 YEARS PRO-RATED WARRANTY

* First 3 months – No Charge * 4th thru 36th month – Charged 1/36 of retail cost times number of months membrane in use.

Damage caused by accident, fire, flood, act of God, misuse, misapplication, neglect, alteration, installation or operation contrary to our printed instructions, is not covered by this warranty.

As manufacturer, we do not know the characteristic of the water supply where the system will ultimately be installed. Please understand that the quality of water supplies may vary periodically, and that your water usage rate may vary as well. Water characteristics can also change considerably if your R.O. is moved to a new location. For these reasons, we assume no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligations for us. Our obligations under this warranty are limited to the repair or replacement of the defective parts of the R.O. and we assume no liability whatsoever for incidental and consequential damages, whether from corrosion or other causes.

Some states do not allow limitations on how long an implied warranty lasts, or exclusions or limitations of incidental or consequential damage, so the limitations and exclusions in this warranty may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

WARRANTY SERVICE POLICY

In the event that a component breaks down on a system that is still under warranty, we ask that the following policy be followed so we can provide the necessary service to you:

Any part that has malfunctioned must be sent prepaid to the factory with the model number, serial number, and proof of purchase for the system it came from. Upon receipt of these items, inspection and test will be made and a determination given as to repair or replacement of the item under warranty. If the part is under warranty, it will be repaired or replaced and returned at no cost, except freight. If the part is not covered by the warranty, the part will be repaired or replaced and returned and invoiced for the repair or replacement cost.

Failure to have an annual inspection by a qualified service technician voids warranty.

WARRANTY VALID ONLY IF OPERATED WITHIN CONDITIONS LISTED BELOW

MEMBRANE TYPE	TFC
Feed Water Supply	No Chlorine
Water Pressure	30-80 PSI
Water Temperature	40 F-120 F
pH	3 – 11
TDS	2000ppm

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[Wwww.water-tec.com](http://www.water-tec.com)

Authorized Dealer:

