

**water**<sub>2</sub>**BUY**

Use and Care Guide

**Water2buy**

**Reverse Osmosis**

**Drinking water systems**



# Thank you . . .

## **AND WELCOME TO YOUR NEW WORLD OF BETTER LIVING WITH water2buy's AQUASMART RO WATER.**

If this is your first experience of AQUASMART, RO water in your home, you'll be amazed at the marvelous difference it makes. We promise that you'll never want to be without it again. We hope you will become familiar with this Guide so that you will better understand how your new appliance works, and how you can help it give you the many benefits of AQUA SMART RO WATER.

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## **How your Reverse Osmosis works**

### **WHY WATER HAS IMPURITIES AND HOW IT'S CLEANED**

All of the fresh water in the world originally falls as rain, snow, or sleet. Surface water is drawn upward by the sun, forming clouds. Then nearly pure and soft as it starts to fall, it begins to collect impurities as it passes through smog and dust-laden atmosphere. And as it seeps through soil and rocks it gathers hardness, rust, acid, unpleasant tastes odours and what ever else that may be polluting your water source, and then chemicals are added to the mains water to kill bacteria. Because of this, in earlier times people who wanted clean water collected rainwater from roofs in rain barrels and cisterns before it picked up impurities from the earth.

### **THE WATER2BUY PROCESS**

Today, research and technology have combined to produce an appliance that removes impurities using the Aqua Smart reverse-osmosis filter system, this unit is an under-the-sink obstacle course, stopping nearly every contaminant that tries to take a ride up your cold-water line. It force water first through a 3 flashlight-size "pre-filters" that strains out sediment and chemicals and then through a cellophane-like membrane that screens out even smaller pollutants. Before reaching a special tap mounted on your sink, the now-clean water gets one last scrubbing from a carbon filter that removes any lingering chemicals picked up along the way.

Your Aqua Smart reverse osmosis system gives you a continuous supply of sparkling clear, delicious water for drinking, cooking and other uses. Foods will look and taste better too. Having high quality RO product water at your fingertips eliminates the need to buy bottled water. The storage tank can hold up to 8.7 liters of RO product water for your needs.

### **IMPORTANT**

It is important that you change your filters and sanitize your unit a minimum of every 6-12 months.

## Caution:

### Read and Follow All Safety Rules and Operating Instructions Before First Use of This Product.

If you have questions when installing, operating or maintaining your reverse osmosis system, log on to [www.water2buy.com](http://www.water2buy.com) and watch the user installation video for your product.

## WARRANTY

For one year from the date of purchase, when the Aqua Smart Reverse Osmosis Drinking Water System is installed and maintained in accordance with our instructions, Water2buy will repair, free of charge, defects in material and workmanship, except filter cartridges and the R. O. membrane THROUGHOUT EUROPE. This warranty applies only while this product is in use in EUROPE

### **FULL WARRANTY ON REVERSE OSMOSIS DRINKING WATER SYSTEM (Except filter cartridges and R. O. membrane)**

#### WATER2BUY INSTALLATION POLICY

All installation shall be performed in a neat, workmanlike manner in accordance with generally accepted trade practices. Further, all installations shall comply with all local laws, codes, regulations, and ordinances.

## SAFETY GUIDES

Read all steps, guides and rules carefully before installing and using your reverse osmosis system. Follow all steps exactly to correctly install. Reading this manual will also help you to get all the benefits from the reverse osmosis system.

**Do not attempt to use this product to make safe drinking water from non-potable water sources. Do not use the system on microbiologically unsafe water, or water of unknown quality. Check with your local public works department for plumbing and sanitation codes. You must follow their guides as you install the system. Follow your local codes if they differ with guides in this manual.**

The ***Non Pumped Reverse Osmosis*** system works on water pressures of minimum 1.7bar (25 psi) to maximum 8.5bar (125 psi). If your house water pressure is over the maximum, install a pressure-reducing valve in the water supply pipe to the reverse osmosis system.

The ***Pumped Reverse Osmosis*** system works on water pressure of minimum 1bar (15psi) to maximum 8.5bar (125 psi). If your house water pressure is over the maximum, install a pressure-reducing valve in the water supply pipe to the reverse osmosis system.

Do not install the reverse osmosis system outside, or in extreme hot or cold temperatures. Temperatures of the water supply to the reverse osmosis system must be between 5C and 40C. Do not install on **hot** water supplies.

The reverse osmosis membrane comes in an airtight sealed bag for storage and shipment.

## BEFORE YOU BEGIN TO INSTALL THE RO-SYSTEM

**CAUTION: Chlorine** in the water **will destroy the RO membrane**. Most cities add chlorine to the water supply to kill bacteria. The pre-filter removes chlorine before it enters the RO membrane. It is **important to replace the filter cartridges** at least every 12 months.

**Check Parts Included:** Unpack the carton and remove the RO system. In addition to the assembled RO and the storage tank, the system includes the parts illustrated below, a separate length of tubing, and this manual.

- DRAIN SADDLE VALVE
- RO PRODUCT
- WATER FAUCET
- WATER SUPPLY SADDLE VALVE
- TUBING

## WHERE TO INSTALL THE RO SYSTEM

The RO assembly and storage tank is designed for installation under the sink, usually at the kitchen. The RO assembly mounts on a wall surface, or can lie on the cabinet floor next to the storage tank. The RO product water faucet installs on the sink, or on the countertop next to the sink.

*Note:* Tubing lengths should allow for the removal of the assembly from the hanger washers for servicing. If tubing lengths are shortened for neater appearance, it may be necessary to keep the assembly on the hanger washers for service.

You can also locate the RO assembly and storage tank in any **remote location** from the faucet, observing safety guides on page 2. You do need a nearby water source and drain point

**Water Supply:** To provide supply water to the RO system inlet, a saddle valve is included to install on a coldwater pipe.

**Drain Point:** A suitable drain point is needed for reject water from the RO membrane. A floor drain, laundry tub, standpipe, sump, etc., is preferred, a waste saddle valve is included

## TOOLS AND MATERIALS NEEDED

Adjustable wrench, standard pliers, and larger adjustable jaw pliers or pipe wrench to fit sink drain" slotted and Phillips head screwdrivers" pipe joint compound (thread seal) or Teflon tape, approved for use on potable water supplies" hand or battery powered drill with 1/8" bit (if needed for the cold water supply valve,)" electric drill and bits, if hole is needed for the RO tap

## YOUR AQUA SMART SYSTEM CONSISTS OF THE FOLLOWING FILTERS:

### First stage:

5 Micron fibre filter, filters coarse substance and sediment (Marked 1 in diagram 1)

### Second stage:

Pressed and grained active carbon, has strong absorption properties, which removes, 2-dichloroethylene, bleaching agents, pesticides, odours, colour, toxins and cancer-induced TTHM. (Marked 2 in diagram 1)

### Third stage:

5-micron filter in accordance with F.D.A. standards. Filters impurities from 5 micron upward thus preventing blocking of membrane and extends duration to approx 2-3 years. (Marked 3 in diagram 1)

### Fourth stage:

Pure life patented self-clean Reverse Osmosis membrane filters all impurities down to 1 five millionth of an inch. (Marked 4 in diagram 1)

### Fifth stage:

Post active carbon filter absorbs colours and molecules from the storage tank, avoiding second pollution and improving taste. (Marked 5 in diagram 1)

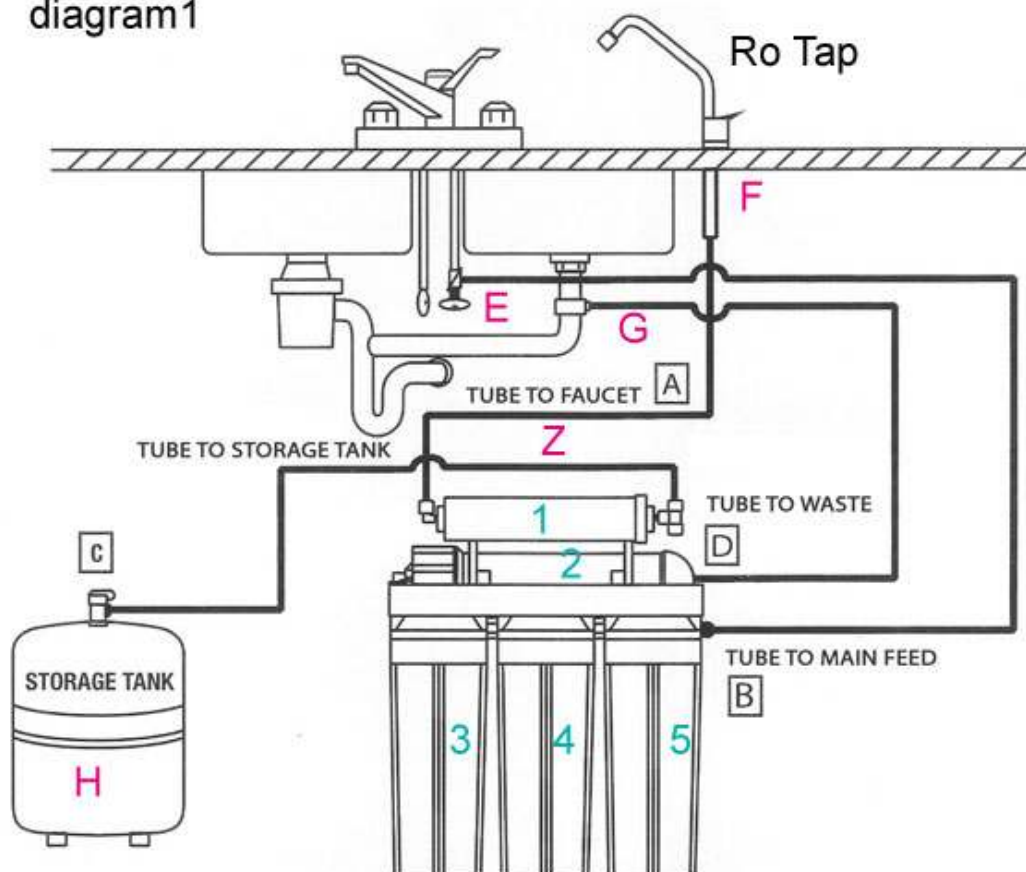
## STEP-BY-STEP INSTALLATION GUIDE:

1. Locate mains water under kitchen sink.
2. Attach saddle valve to 15mm (½") mains copper pipe (if installing saddle valve on plastic pipe you must bore 3mm hole first).  
*(Marked E in diagram 1)*
3. Bore 12mm hole in kitchen sink for faucet and install faucet.  
*(Marked F in diagram 1)*
4. Bore 6mm hole in waste pipe for RO waster water and attach saddle clamp. (That's the black plastic clamp) ensure seal is used.  
*(Marked G in diagram 1)*
5. Sanitize pressure vessel to do this add 1-2 drops of disinfectant to pressure vessel (use water2buy sanitizer, Milton are any other disinfected that's save for use on drinking water)  
*(Marked H in diagram)*
6. Screw on valve on top of RO pressure vessel (make sure you use plumbers tape on tread)  
*(Marked C in diagram 1)*
7. Connect waste pipe from back of Ro unit to waste clamp.  
*(Marked D in diagram 1)*

**Continued...**

8. Connect pipe from saddle valve **E** to first filter marked **B** water inlet.
9. Connect pipe **A** from the last filter **5** to tap **F**
10. Turn saddle valve **E** inwards to pierce hole in pipe then **open fully**  
(If only half open it may leak) if it leaks tighten nut on saddle valve.
11. Check for leaks.
12. Leave for 3 hours.
13. Check for leaks.
14. Turn on faucet until water stops and pressure tank is empty.
15. Turn off faucet.
16. Wait 2 hours and then the water is good to use.

diagram 1



***For more detail please see installation video on website  
[www.water2buy.com](http://www.water2buy.com)***

# CARE OF YOUR REVERSE OSMOSIS SYSTEM

## REVERSE OSMOSIS SYSTEM CARE GUIDE

1. At Least every 12 months, replace the 3 pre-filters and 1 post-filter cartridges.  
(These can be purchased on [www.water2buy.com](http://www.water2buy.com) product code YEAC7)
2. Replace the RO membrane cartridge at least every 2 years.
3. Check Pressure on Pressure vessel every year this should be charged to 9psi when the vessel is empty of water. (To do this just add air to pressure vessel with standard pump).

### If any of the following occur before the 12 months, replace as directed

- A. Slow Making of Product Water: Replace the pre-filter cartridge. If the production rate does not improve, replace the post-filter cartridge and RO membrane cartridge.
- B. No Product Water: Check and make sure the flow restrictor going to train is not blocked. **(Marked Z in diagram fig 1)**
- C. Chlorine Taste and/or Odor: Replace the pre-filter, post-filter and RO membrane cartridges.
- D. High Total Dissolved Solids (TDS) in Product Water: You can get a free TDS test through [water2buy.ie](http://water2buy.ie) just send us a sample of your water.

You can also send water samples to a water analysis lab for testing. It is important to test both the treated and untreated water to determine system performance. You can also purchase a TDS meter on [www.water2buy.ie](http://www.water2buy.ie)

Note: Sanitizing is recommended after servicing inner parts of the system.

### DIMENSIONS and SPECIFICATIONS Metric

Supply water pressure limits . . . . .	40 - 125 psi 280 - 860 kPa
Supply water temperature limits . . . . .	40 - 100 ° F 5 - 40°C
Waste water per gallon of product water . . . . .	5 gal. 18.9 liters
Storage tank capacity (max.) . . . . .	2.3 gal. 8.7 liters

Thank you for choosing [Water2buy.ie](http://Water2buy.ie)

Value, Quality, Service