

AstroBoy

Quick install guide

Water Inlet connection

Water can be diverted to the AstroBoy by either using the tap diverter or the opella valve.

Tap diverter

From your main kitchen mixer tap unscrew the aerator at the end of the spout and screw the tap diverter and black washer provided in its place. The diverter is supplied with male and female adaptors. Unscrew the grip nut and push onto the ¼" White tube provided push the tubing firmly onto the barbed spigot and secure by reattaching the grip nut and fully tightening.

Opella valve

using the instructions provided with the valve attached the opella to a cold water pipe. Push the ¼" white tubing provided into the pushfit connection on the valve.

Connecting to the RO unit

Take the other end of the tube attached to either the tap diverter or opella and feed through the aperture at the centre rear of the blue RO base. Then connect to the T push fit connection at the end of the in line filter with the pink coloured label.

Waste Connection

Feed one end of the long orange tube provided through the smaller aperture at the rear left hand corner cut out of the blue base unit when viewed from the front. This is deliberately a tight fit Unscrew the white end nut from the valve connector attached to the internal orange tube. Place the nut over the long orange tube and push the tube firmly into the connector. Secure into place by reattaching the white nut to the connector. The waste end can then either be attached to the undersink waste pipe using the black waste connector supplied or simply placed into the sink if you require more portability.

Overflow connector

Feed the larger diameter white pipe through the larger aperture next to the orange waste pipe aperture and using the same method as the with the orange pipe connect to the large valve connector located to the left of the green label filter if looking from the front. The overflow can then either be fitted to a waste pipe or placed into a sink. (note we do not provide a connection to fit the overflow to a waste pipe). The unit is designed to continually replenish the tank to keep the pure RO water fresh. Once the tank is full the overflow will run unless the water inlet supply is turned off

Electrical connection

The transformer connection is located next the on off switch to the front right of the blue base unit. Ensure that the Three-pin plug is connected to a suitable 13-amp power supply.

Start up

Having first installed the water dispenser valve to the clear tank. Using the tap diverter or opella valve turn the water supply and then the power supply on to the unit. At this point we recommend that you observe to ensure no water leaks within the system. Once the tank has filled, turn off the water supply and discard the first tank of water. On initial start up the first tank may contain impurities from the filter flushing process. Once this first tank has been discarded turn the water supply back on and within a few moments you can start to use the water.

If you intend to remove the storage tank from the system or switch the unit off we recommend that the container is stored away from heat and direct sunlight and the pure water consumed within 8 hours.

Memo

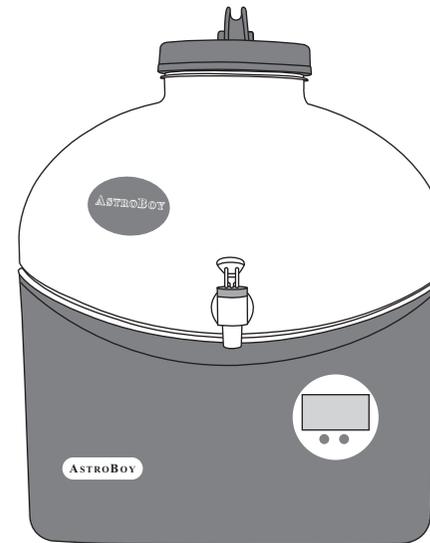
Type of product	ASTROBOY		
Date of purchase			
Name		Tel	
Address			



REVERSE OSMOSIS SYSTEM

USER'S MANUAL

- 01 Introduction of ASTROBOY
- 02 What is reverse osmosis
- 03 Components & Selections
- 04 Inline cartridge filters
- 05 The parts of ASTROBOY
- 07 Microprocessor control system
- 08 Tubing connection diagram
- 09 Installation diagram
- 10 Work with smart cap
- 11 Operation regulation
- 12 Change filters and membrane
- 13 FAQ
- 14 Maintenance checking list
- 15 Memo



FAQ

Q: Why is the testing result of my TDS higher than 40ppm?

We suggest you stop drinking water from the system if TDS testing result is higher than 40ppm. And change the RO membrane right away. Do remember to change filters regularly.

Q: Can the water tank be used for similar coolers?

Yes, this is a multi-function tank for which you can easily use for any similar coolers.

Q: How does the over-flow tube function?

It acts as a protector when the over-flow ball valve is malfunction.

Q: What should I do if the water productivity is shrinking?

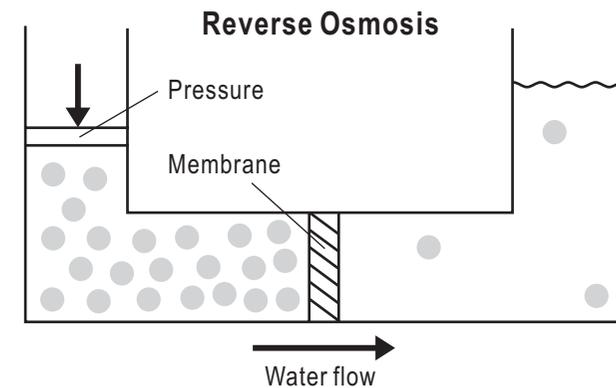
Please change the filters. If the problem remains the same, please contact a nearest distributor for solutions.

Q: What are the importance to change filters regularly?

1. To ensure the quality of drinking water
2. To make the best use and extend the life of systems.
3. Filters have an expired life of service and must be changed regularly.

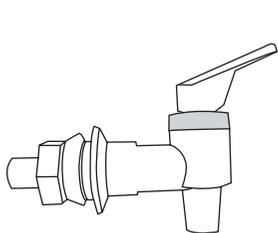
What is reverse osmosis

Reverse osmosis was originally designed to make sea water drinkable for the navy. It is ideal for anyone on a low sodium diet. An R.O. membrane has a pore size much smaller than bacteria virus, or the cryptosporidium parasite. When functioning properly it will remove all microorganisms from tap water and produce sterile water. Reverse osmosis is the reversal of the natural flow of osmosis. In a water purification system, the goal is not to dilute the salt solution, but to separate the pure water from the salt and other contaminants. When the natural osmotic flow is reversed, water from the salt solution is forced to pass through the membrane in the opposite direction by application of pressure-thus the term REVERSE OSMOSIS. Through this process, we are able to produce pure water by screening out the salts and other contaminants.

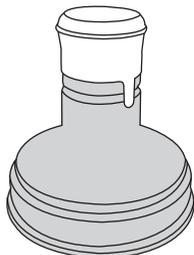


Components & Selections

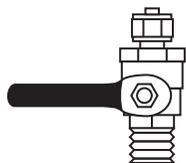
◆ Components



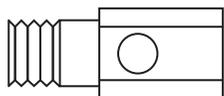
Faucet



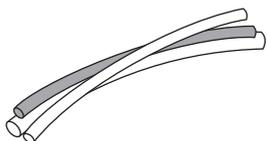
Smart cap



Deliver-valve

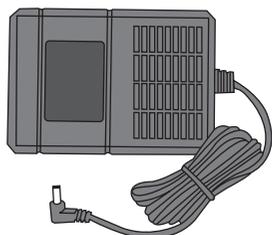


Water supply connector



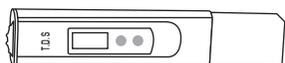
8mm over-flow tube white x 1
6mm feed water tube white x 1
6mm drain out tube orange x 1

Tubes



Transformer

◆ Selections



TDS meter

Change filters and membrane

- 1** Switch off water source and electricity.

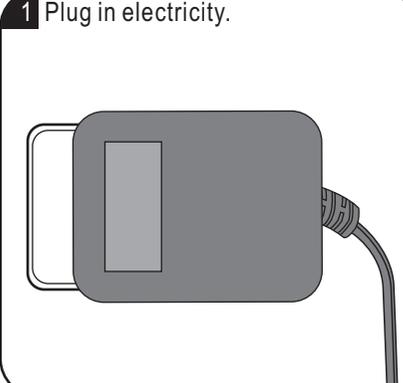
To ASTROBOY
- 2** Turn off system power switch
- 3** Take out tube joint.
- 4** Remove water tank and holder.
- 5** Take out the 4 fixed screws. Then remove filters and connectors.
- 6** Coil the connectors with Teflon tape and connect to a new filter. Then connect to its tube.

With Teflon tape
- 7** Put back the tube joint to the tank cap. switch on water source and electricity.

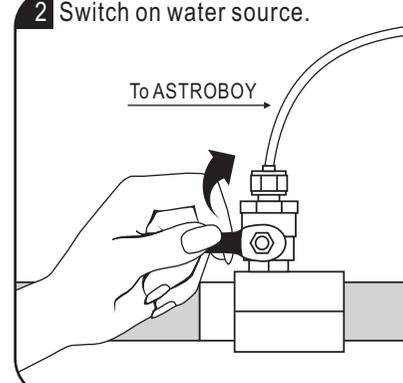
※ Check carefully to see if there is a leaking. If so, repeat the procedures described above.

Operation regulation

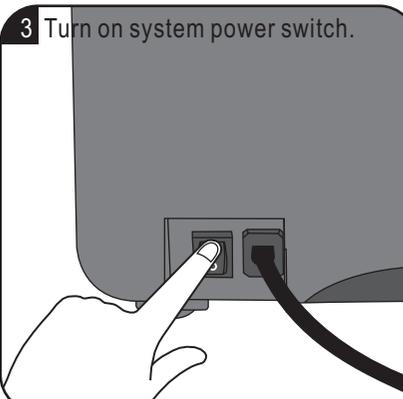
1 Plug in electricity.



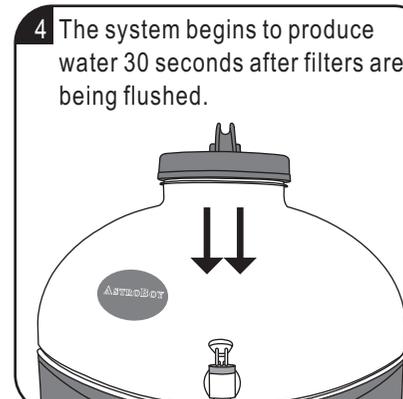
2 Switch on water source.



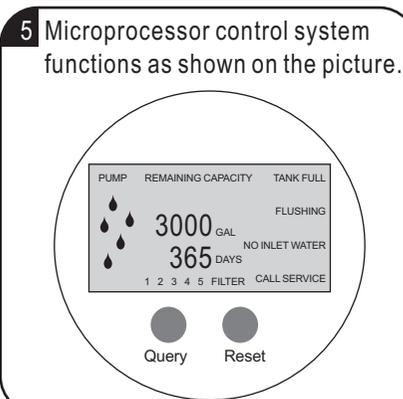
3 Turn on system power switch.



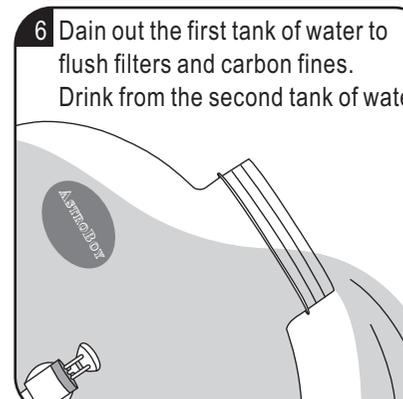
4 The system begins to produce water 30 seconds after filters are being flushed.



5 Microprocessor control system functions as shown on the picture.



6 Drain out the first tank of water to flush filters and carbon fines. Drink from the second tank of water.



※ When under production of water, it's normal that the drain out tube comes with drain out water. Do not stuff the drain out tube to prevent the system from breaking down.

ASTROBOY Countertop Smart RO System

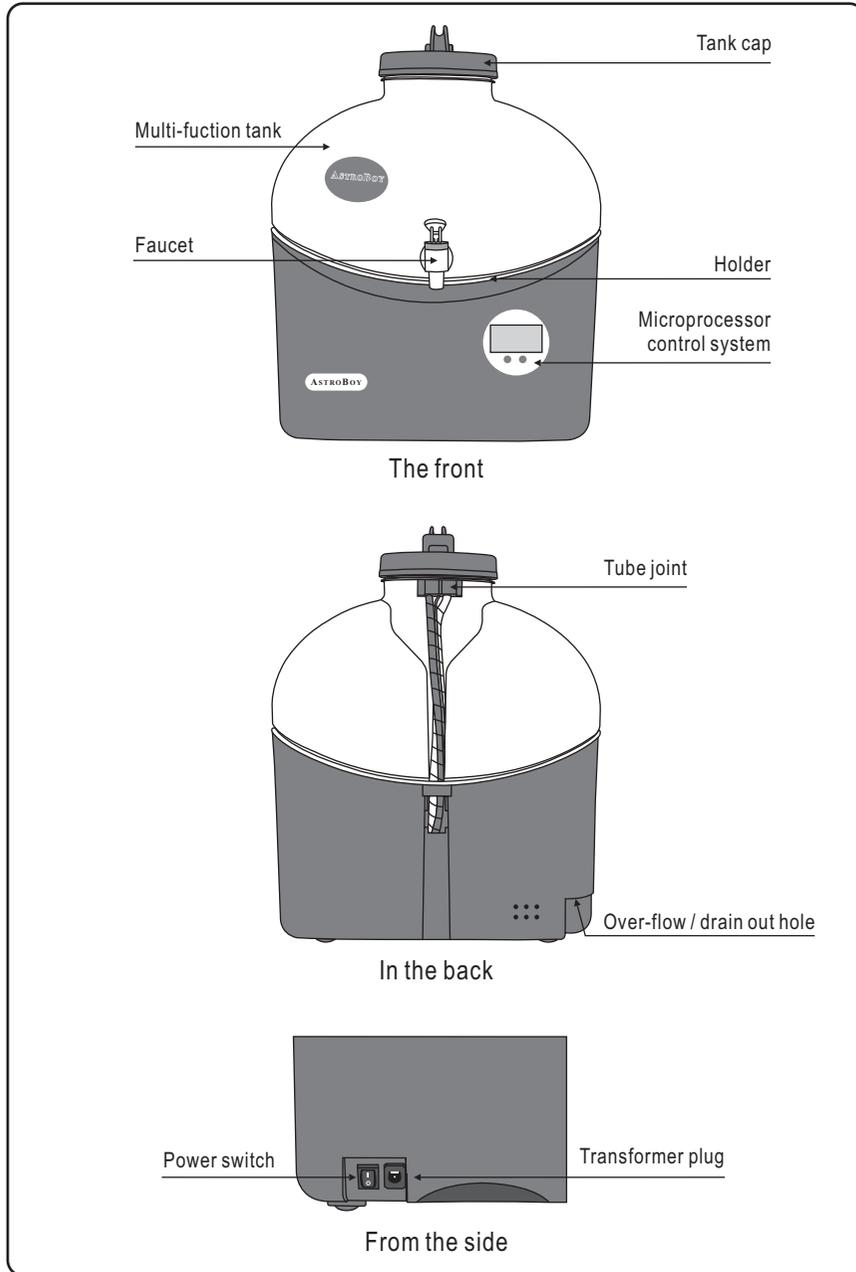
Inline cartridge filters

Cartridge Filters	Filter Description	Service life
<p>Stage 1</p> <p>Inline 1 Micron Sediment Filter</p> 	<p>This 1micron sediment filter is made by Dupont Anti-Bacteria. High capacity filter removes dusts, particles and rusts, 99.70% anti-bacterial, comply with FDA test standard. Use 100% pure PP fine fiber. Product series have been passed the test in accordance with the filtering effect test of ANSI-NSF standard 42 - particulate reduction class II-V of U.S.A.</p> <p>Service Life:1500GAL</p>	6 Months
<p>Stage 2</p> <p>Inline Activated Carbon Filter</p> 	<p>This granular activated carbon filter is composed of high-performance activated carbon that removes free chlorine, odor, organic contaminants, pesticides, and chemicals that contributed to taste and odor.</p> <p>Service Life:1500GAL</p>	6 Months
<p>Stage3</p> <p>Inline Activated Carbon Filter</p> 	<p>This granular activated carbon filter is composed of high-performance activated carbon that removes free chlorine, odor, organic contaminants, pesticides, and chemicals that contributed to taste and odor.</p> <p>Service Life:1500GAL</p>	6 Months
<p>Stage 4</p> <p>Filmtec Membrane</p> 	<p>Filmtec (Dow Chemical)membranes, maker of the world's most advanced reverse osmosis membranes. High rejection membrane with the capacity of producing 80 gallons per day. Eliminates up to 99.9% of most chemicals, dissolved solids, metals, bacteria, and viruses.</p> <p>Service Life:10000GAL</p>	4 Years
<p>Stage 5</p> <p>Post Carbon Filter</p> 	<p>This post carbon filter is designed to improve taste. It removes any residual impurities and odors and provides a finer conditioning of pure water.</p> <p>Service Life:3000GAL</p>	1 Year

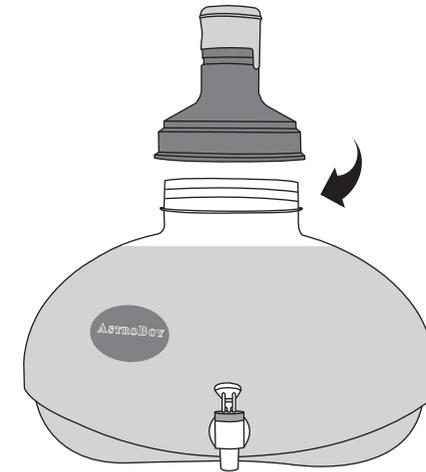
※ Service life varies with consumption and quality of water.

ASTROBOY Countertop Smart RO System

Each part of main body



Work with smart cap

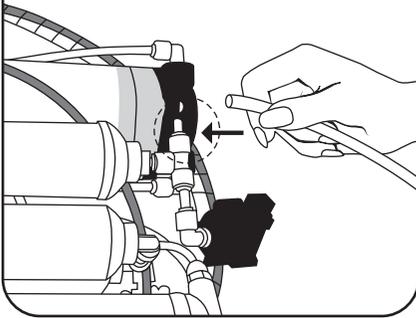


2. Take off the cover sticker from the smart cap. Turn the tank upside down and hook up with any counter top drink water systems / coolers.

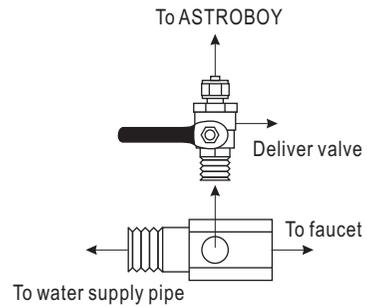
※ It's normal that a plastic stopper shall be floating after turning the water tank upside down.

Installation diagram

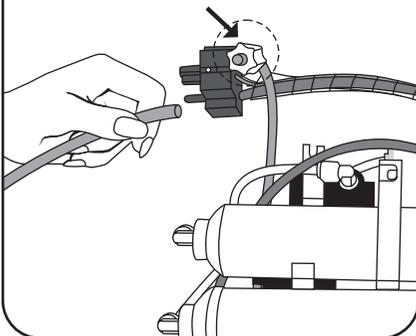
Connect 6mm feed water tube white



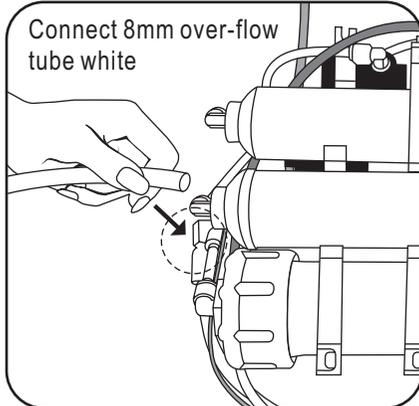
Input water



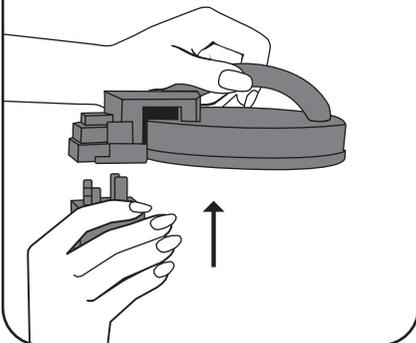
Connect 6mm drain out tube orange



Connect 8mm over-flow tube white



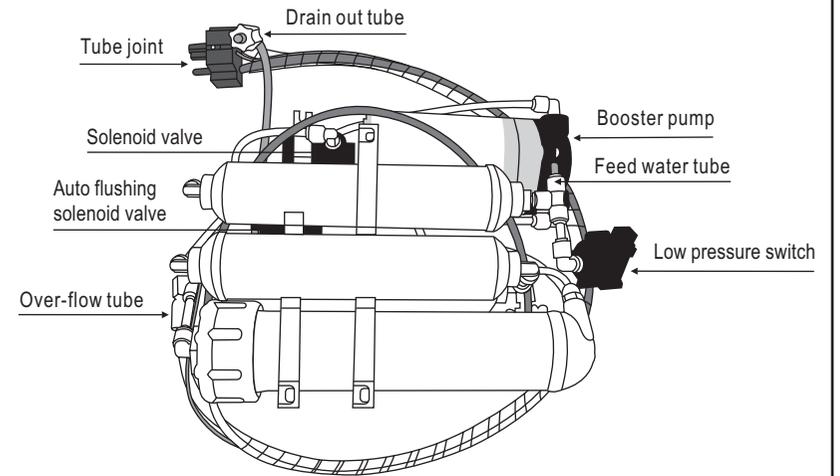
Connect tube joint



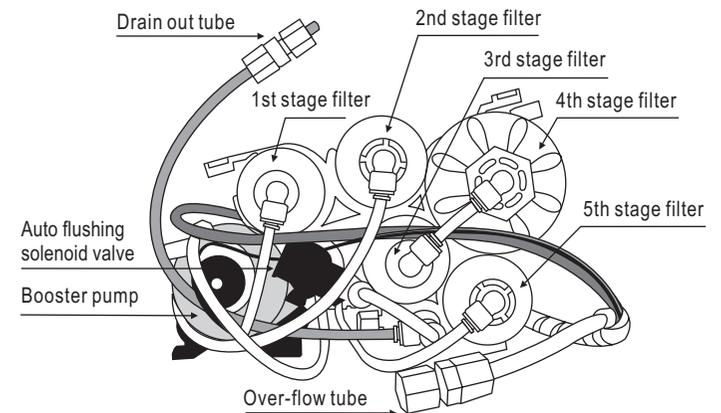
Tube joint is the combination of :

1. Pure water supply
2. Over flow protector
3. Auto shut-off switch

Each part of main body

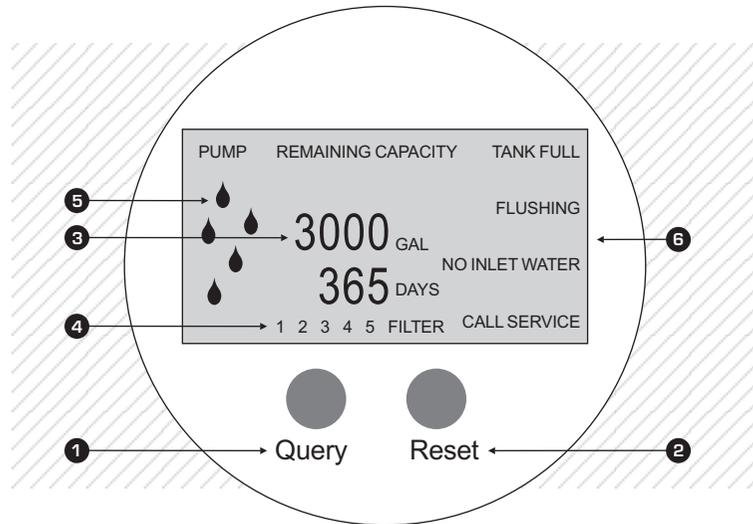


View from the top



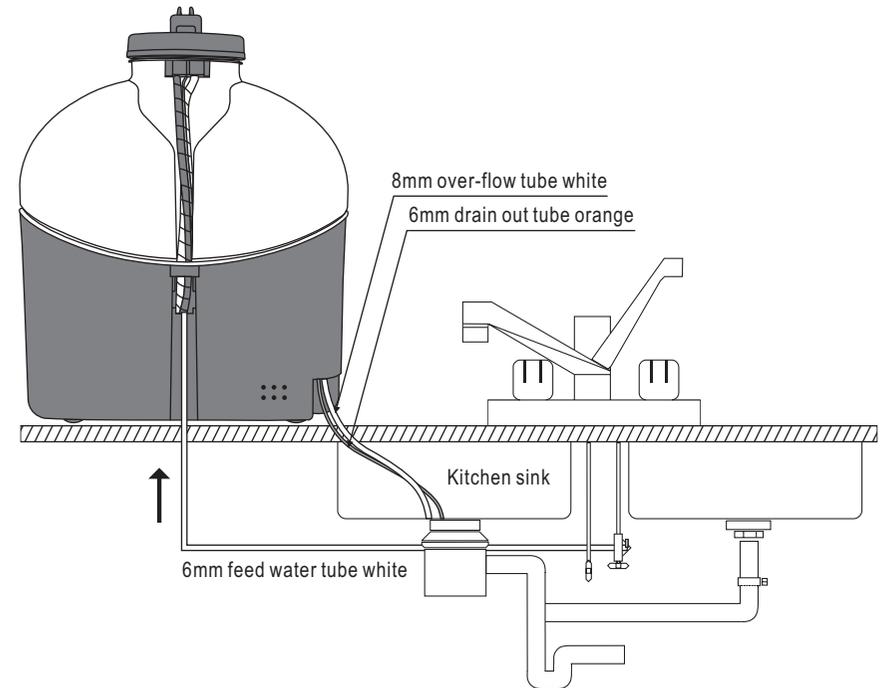
View from the side

Microprocessor control system



- 07**
- 1 Check the remaining service life of each cartridge filter.
 - 2 Reset this system after your have done the replacement.
 - 3 Showing life of service for filters.
 Example : 1st 1500GAL→1499.....0
 2st 1500GAL→1499.....0
 3st 3000GAL→2999.....0
 4st 9999GAL→9998.....0
 5st 6000GAL→5999.....0
 - 4 Flashing which filter needs to be replaced.
 - 5 Showing the water drop when the system is making the water.
 - Showing different functions as follows :
 TANK FULL !
 FLUSHING : Automatic flushing membrane (per 8hrs).
 NO INLET WATER : No feed water!
 CALL SERVICE : Flashing when the filter needs to be replaced (filter expired).

Tubing connection diagram



※ Simply leave the drain out tube and over flow tube in the sink!