#### Memo

Type ofproduct	HRO-200	
Date of purchase		
Name		Tel
Address		

HRO-200 High Capacity Reverse Osmosis System





#### **REVERSE OSMOSIS SYSTEM**

## HRO-200

## **USER'S MANUAL**

- Introduction of HRO-200
- What is Reverse Osmosis
- Components & Selections
- Cartridge filters
- The parts of HRO-200
- Tubing connection diagram
- Installation diagram
- Change filters
- Change ROmembrane
- Operation regulations
- FAQ 16
- Maintenance checking list
- 19 Memo



In order to bring the best use of your system, please read the user's manual carefully before installation and follow the regulations.





#### HRO-200 High Capacity RO System

A high capacity, low cost system. Perfect for offices or small factory. Designed for commercial and residential application. It is suitable for manufacturing, restaurants, food processing industries, shopping centers, schools and hotels.

Provides high quality drinking water with capacity up to 200 gallons perday. HRO-200 can be installed with large tank (11G or 20G water storage tank) for maximum output, while taking up minimum space.

System is equipped with High Flow Booster Pump for increased water production capacity.

#### **Features**

- 200 gallons perday membrane x 1
- · High flow boosterpump
- FDA approved polypropylene made flat cap housings
- Comes with attractive designer faucet
- Build in electrical shut off valve to prevent any damage of the membrane
- All hardware included
- Completely assembled, 100% factory tested and sterilized ready for installation

#### **Specifications**

• Production: 200 GPD / 756 LPD • Operation Pressure: 10 - 80 psi

Available in: 110 volt, 220volt, 240volt. (50/60 Hz)

• Weight (System): 17 kg

• Dimensions: 38.0 (L) x 25.5 (W) x 46.0 (H) cm

HRO-200 High Capacity Reverse Osmosis System



## **Maintenance checking list**

Filters	1st stage	2nd stage	3rd stage	4th stage	5th stage	Other items



## **Maintenance checking list**

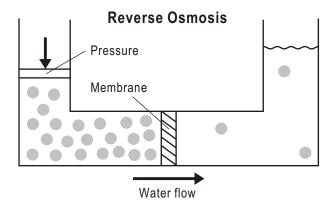
Filters	1st stage	2nd stage	3rd stage	4th stage	5th stage	Other items

HRO-200 High Capacity Reverse Osmosis System



#### 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.





PURE-PRO

# REVERSE OSMOSIS PURE-PRO

SYSTEM

## **Components & Selections**

#### **Components**



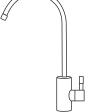




Feed water connector

3/8 deliver-valve

Housing wrench half-circle





RO membrane



Faucet

**Selections** 





Mineral cartridge filter

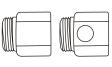
TDS meter





Infra-red cartridge filter

UV water sterilizer







6/8 hot &cold water deliver-valve

standing faucet bracket

3/8 extended RO tubing white

HRO-200 High Capacity Reverse Osmosis System



## **FAQ**

#### Q: What is the guarantee on the PurePro system?

The PurePro system (excluding filters) is guaranteed for 1 year for material and workmanship. All defective parts will be replaced free within the first year under natural breakdown. The membrane has one year pro-rated guarantee.

#### Q: What factors affect the quantity and the quality of the water production?

There are four major variables to consider:

- 1. Pressure-The greater the water pressure, the better water quantity and quality it produced. Water pressure of 60 PSI is ideal.
- 2. Temperature-76°F is the ideal water temperature for R.O. 40°F water will cause the production of R.O. water to fall to half of that at 76°F. The maximum water temperature recommended is 85°F.
- 3.Total Dissolved Solids (TDS)-The higher the amount of dissolved contaminants in the water, the lower the quantity of water produced. A high level of TOTAL DISSOLVED SOLIDS can be overcome with additional water pressure.
- 4. Membrane-Different membranes have different characteristics. Some produce more water than others; some have better contaminant rejection capabilities; some have greater resistance to chemical abrasion for longer life. PurePro system includes TW30-1812-200 The Thin Film Composite (TFC) membranes combine the best of these characteristics and are considered the finest membrane in the world.

#### Q: My RO system is not making any water. What should I do?

- 1.Make sure you plug in electricity.
- 2. Check the water supply. Make sure it's on.
- 3. Check if pumps work well.

If none of above occur, please contact a technician at the nearest shop for assistance.

#### Q: What does the PurePro series drinking water tastelike?

The taste of the PurePro water depends on the amount of contaminants in the tap water originally. If 95% of dissolved minerals and chemicals are removed, the R.O. water may taste like distilled water (no minerals), bottled water (low mineral), or natural spring water (moderate mineral content).



## **Operation regulation**

- A. With everything connected, turn on the water check for leaks.
- B. Within a few minutes (up to 15) the water will start to run from the faucet slowly.
- C.Let the water run for at least 30 minutes. This flushes the carbon filters on first time use.
- D.Close the sinktop faucet. The system is now ready for use.
- E.Change filters regularly every 6 to 12 months and have the membrane checked annually.

#### Caution

- 1.Do not use hot water (over 45°C)!
- 2.Do not freeze the machine!
- 3. Switch off electricity and water source if away for more than 5 days, and drain outpure water.

HRO-200 High Capacity Reverse Osmosis System



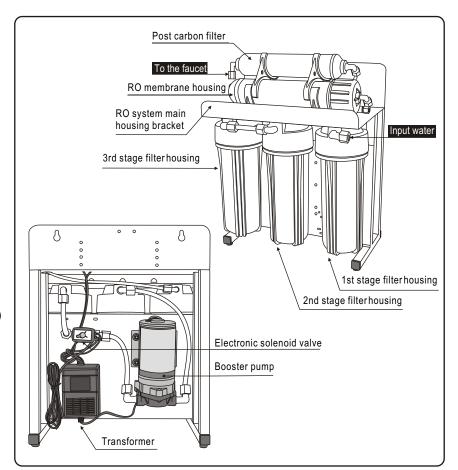
## **Cartridge Filters**

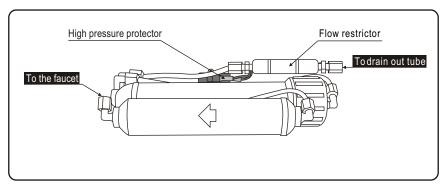
Cartridge Filters	Filter Description	Service Life
Stage 1 5 micron Sediment Filter	This 5micron sediment filter is made of 100% pure polypropylene fibers. High capacity filter removes dusts, particles and rusts.	3 Months
Stage 2 Granular Activated Carbon Filter	This granular activated carbon filter is composed of high-performance activated carbon that remove free chlorine, odor, organic contaminants, pesticides and chemicals that contributed to taste and odor.	3 Months
Stage3 Block Carbon Filter	This block carbon filter is composed of high- performance carbon that removes free chlorine, odor, organic contaminants, pesticides and chemicals that contributed to taste and odor.	3 Months
Stage 4 200GPD TFC membrane 2 pcs	200 Gallon Per Day Membranes are now available in residential sizes. Designed to perform in operating conditions similar to most standard under-the-counter home RO units, the TW30-1812-200 forms a tight fit in most standard residential housings.	1 Year
Stage 5 Post Carbon Filters	NSF approved. This post carbon filter is designed to improve taste. It removes any residual impurities and odors from the tank and provides a finer conditioning of pure water.	1 Year

PURE-PRO REVERSE OSMOSIS SYSTEM



## The parts of HRO-200

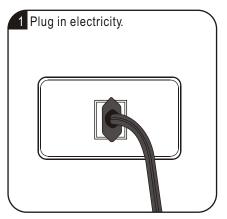


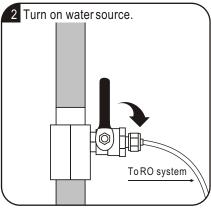


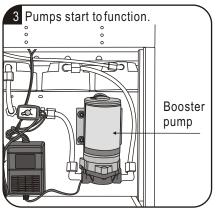
HRO-200 High Capacity Reverse Osmosis System

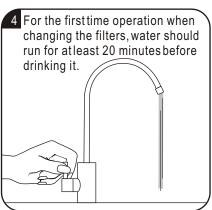


## **Operation regulation**





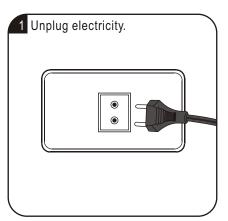


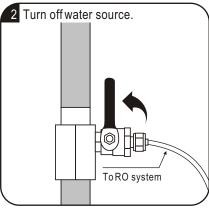


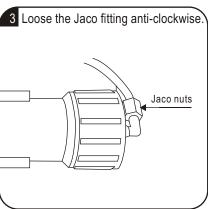
PURE-PRO R REVERSE OSMOSIS SYSTEM

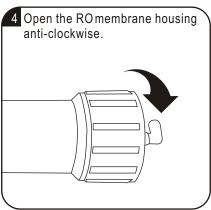


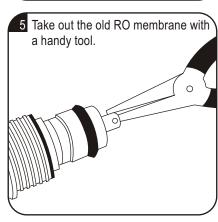
## **Change membrane**

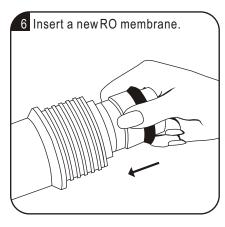








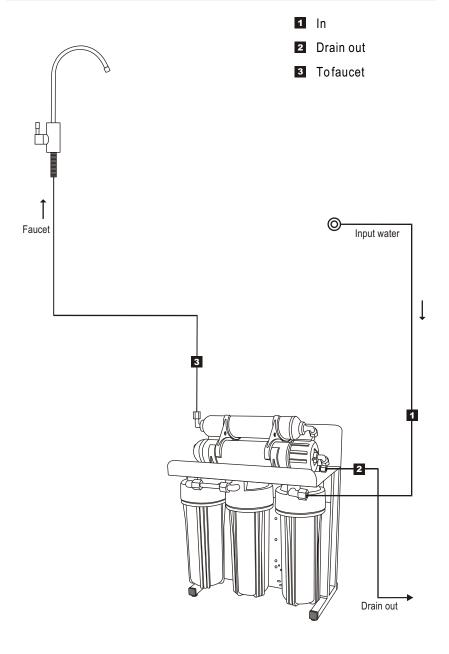




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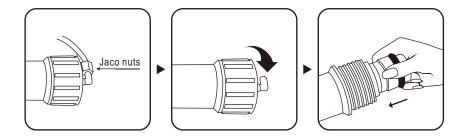
## **Tubing connection diagram**



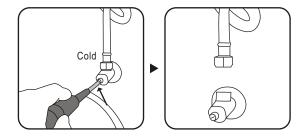


## **Installation diagram**

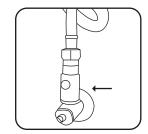
1.Loosen the fitting nuts and the cap from the RO membrane housing as shown in the picture. Unpack the RO membrane and insert to its housing (rubber gasket towards to the open end). When completed, tighten up the cap with the RO membrane housing and the jaco fittings.



2. Turn off the water supply. Loosen the stainless steel pipe connector.



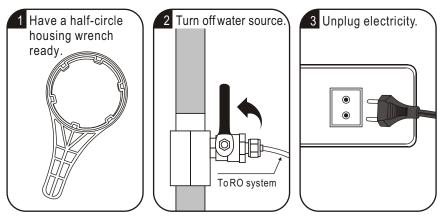
3.Get feed water connector and connect it to the stainless steel pipe as in the picture 2.

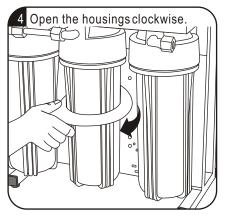


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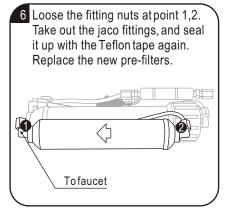
## **Change filters**

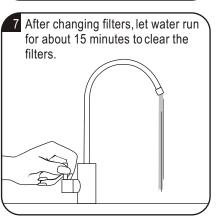






PURE-PRO 5 REVERSE OSMOSIS SYSTEM

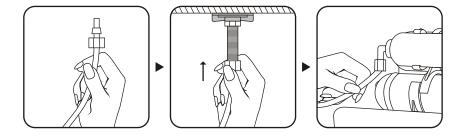




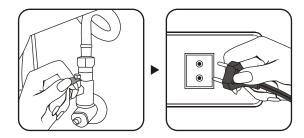


## **Installation diagram**

9. Take tubing white. Wear the concave type screw on tubing white and insert the tubing shroud as shown in the picture. Connect the tubing top with the faucet end. Then connect the tubing end to the last stage filter (as point 3 on page 06)



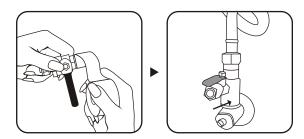
10. Make sure that you complete No. 1 to No. 9. If so, switch on water supply and plug in electricity.



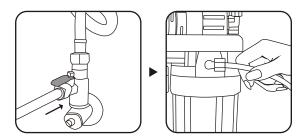
PS. Do notuse drink waterfrom the first made water in the tank.

## **Installation diagram**

4.Get deliver valve and seal it with Teflon tape for 14 circles. Then connector it with the feed water connector.



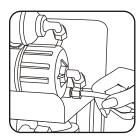
5.Get tubing white, connect it with deliver valve and the inlet water supply (as point 1 on page 06)





## **Installation diagram**

6. Take tubing white again, connect it with the drain out (as point 2 on page 06)



7.Use an electric drill and drill an approximately 1 cm hole through the kitchenware table.

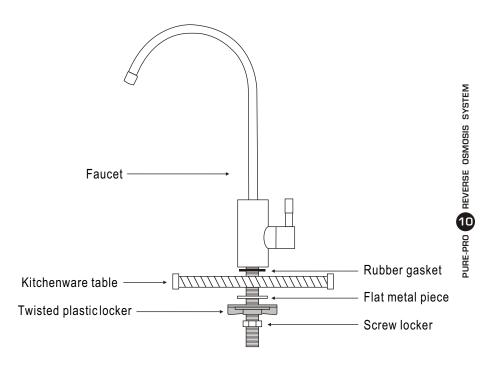


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## **Installation diagram**

8. Take out the faucet and its components. Install the faucet and the rubber gasket to the kitchenware table. Install the rest of component as shown in the picture.



PS. To suit your kitchenware table, you can choose to have twisted plastic locker or screw locker to be installed for your faucet.

