

REVERSE OSMOSIS DRINKING WATER SYSTEM



WACO Corp.

MADE IN KOREA 



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HCRO-300 SERIES
HCRO-300R(RO System)
HCRO-300U(UF System)
HCRO-300N(Normal System)



Installation Instruction & Service Guide
* Please read this manual carefully before attempting installation

INTRODUCTION

Please read this entire service guide prior to beginning installation.

The **WQCO** reverse osmosis drinking water system has been designed for quick and simple installation and maintenance. You will insure a successful installation and reliable operation by carefully reading this instruction manual and following the operational guidelines. If however you prefer, you can contact your local plumber or handyman and they can install these system for you rater quickly. Routine maintenance is esstial to the longevity and performance of the system. Filters should be changed every six to twelve months depending on the quality of the feed water supply.

CONDITIONS FOR OPERATION

TFC-THIN FILM COMPOSITE SOURCE WATER SUPPLY

Community / Private : Non-/chlorinated
 System Pressure : 10-100 psi
 Temperature : 4° - 38°C (40° - 100°F)
 pH Range : 3.0 to 11.0
 Maximum Supply TDS Level : 2000 mg/L
 Turbidity : <1.0 Net Turbidity (NTU)
 Hardness : <350mg/L
 Iron (Fe) : <0.1mg/L
 Managese(Mn) : <0.05mg/L
 Hydrogen Sulfide (H2S) : 0.00mg/L
 Chlorine : 0.00mg/L

CAUTION

DO NOT USE THIS SYSTEM WHERE THE WATER IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY. THIS SYSTEM IS FOR USE ON POTABLE WATER ONLY. SOURCE WATER EXCEEDING CHEMICAL PARAMETERS REQUIRES PRETREATMENT.

PREPARATION FOR INSTALLATION

Check the following list of components to ensure that all parts are packed with your system.

* RO SYSTEM



* MEMBRANE



* WATER LEVEL SWITCH



START UP

ACTIVATING THE SYSTEM FOR THE FIRST TIME

- * Make sure all water supply / drain lines are secure and free from leakage.
- * Open the feed water valve and let the water flow until all the air has been expelled from the system.
- * Within a few minutes the water will start to run. (into your own water storage tank)
- * Let the water run for at least 30 minutes. After initial flushing, open the faucet from your own tank and flow out all the water.
- * Repeat the first step.
- * System is now ready for use.

CAUTION FOR YOUR SAFETY

- * Make sure all water supply / drain lines are secure and free from leakage.
- * Do not use the first tank of water.
- * Change filters regularly every 6 to 12 months and have the membrane checked annually. (We offer the TDS meter to check your membrane)
- * Automatic Ice Makers require water in the line to work properly. If you are draining the storage tank or have no water during initial start up turn off the Ice maker until sink-top faucet has a steady flow.
- * To connect the Ice Makers or refrigerator, you need to use "T" type connector.

INSTALLATION OF WATER SUPPLY CONNECTOR

SHUT OFF THE WATER :

Locate the water shut-off valve for the cold water feed line you choose to use for the supply. Accidentally hooking up the system to the hot supply line will permanently damage the membrane(See Conditions for operation). To assure you are using the cold water line, turn on both the hot and cold faucet. After the water is warm to the touch, feel the pipes under the sink. It will be easy to identify the hot and cold pipes.

THE WATER SUPPLY CONNECTOR THAT COMES WITH THE UNIT IS MADE UP OF TWO PARTS :

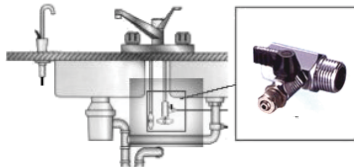
* Water Supply Connector, Deliver-valve



* Simple disconnected cold water line from angle stop bottom or from faucet stud on top.

INSTALL THE 2PARTS OF WATER SUPPLY CONNECTOR :

1. Assemble the water supply connector by inserting the Deliver-valve. Screw the deliver-valve into the side of the water supply connector using 3 to 4 wraps of Teflon tape.
2. Disconnect water supply line from cold water faucet underneath sink. Attach and tighten water supply connector assembly being careful not to pinch or crimp any tubing or water line supply line while tightening.



* INSTALLATION OF WATER SUPPLY CONNECTOR

NOTE : MAKE SURE YOU ARE HOOKED UP TO THE COLD WATER & TURNED OFF THE WATER SUPPLY.

WATER LEVEL SWITCH / RO MEMBRANE

INSTALLING THE WATER LEVEL SWITCH INTO YOUR OWN WATER STORAGE TANK

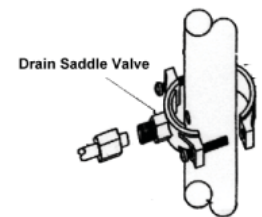
HCRO-300 Produce 400gallons per day. Install the below switch in your water tank. It will auto shut-off the HCRO-300 system when the tank.



INSTALLATION THE DRAIN SADDLE VALVE

INSTALLING THE DRAIN SADDLE VALVE

1. Select a location for the drain hold based on the design of the plumbing.
 2. Position the drain outlet saddle on the drain pipe.
 3. Allow adequate space for drilling.
 4. Tighten the bolts evenly on both sides. (NOTE : Avoid overtightening)
 5. Using the opening in the drain outlet saddle as a guide, drilling a 1/4" hole in the drain pipe.
- Clean debris from the saddle and threads.



Drain Saddle Valve

CONNECTING THE TUBING

INSTALLATION GUIDE LINE

- A. Connect the tubing to the feed water connector.
- B. Connect the tubing to your own water tank or pressurized tank.
- C. Connect the tubing to the drain saddle valve.



FAST CONNECTOR / FITTING :

If this unit was using the fast connect fitting (similar to john guest fitting). be sure the end of the tubing is cut square, then push in unit you feel the tube hit bottom. Should you need to remove the tube, push in on the collet with your fingernail and pull the tube out simultaneously.

PREPARATION FOR INSTALLATION

* INSTALLATION KITS - TUBING, FEED WATER VALVE, DELIVER WATER VALVE, DRAIN SADDLE VALVE, HOUSING WRENCH.



Determine the location for the installation of the RO system. Avoid Locations where the system might come in contact with hot water pipes or other hazards.
 Determine the location for the faucet.
 Determine the location for the storage tank. A maximum distance from the tank to faucet of 15feet is possible.
 The system will produce a faster flow at the faucet with the shortest tubing run from tank to faucet.

HCRO-300 SYSTEM CONTAIN THE BELOW FILTERS : (prefilters have been installed into 20" prefilter housing)

1. MICRON SEDIMENT FILTER
2. GRANULAR ACTIVATED CARBON FILTER
3. CARBON BLOCK CARBON FILTER
4. MEMBRANE
5. INLINE POST CARBON FILTER

NOTE : MEMBRANE(not installed!) but MUST BE INSTALLED BEFORE USING : (REFERENCE - WATER LEVER SWITCH/RO MEMBRANE)

