

# Portable Reverse Osmosis System\_commercial use

waco

## HCRO SERIES-300G/400G/600G



Address : A-301 Hagye Technotown, 10,  
Nowon-gu, Seoul, Korea Tel : 948-0657 Fax : 948-2342  
Tel : 82-2-948-0657 | FAX : 82-2-948-2342  
<http://www.waco.co.kr>

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## **1.1 INTRODUCTION**

This proposal is for the comprehension about package system organization of potable water system. Also, it has object to introduce R/O water filtration system which is able to supply the safe drinkable water in accordance with water quality standard, and good for human body.

## **1.2 FEATURES**

- 1) Production of safe drinkable water by R/O membrane filtration system
- 2) Easy operation and Compact Design with low noise
- 3) Easy maintenance and cost effective to maximize customer's satisfaction

## 2. Reverse Osmosis Filtration Technology

### 2.1 Characteristics of R/O membrane

Reverse Osmosis(R/O) membrane filtration removes those many kind of dangerous bacteria and heavy metals . Other natural filtration system without any membrane or UF membrane with pore size of  $0.01\mu\text{m}$  is impossible to remove those harmful elements and various kind of bacteria however Specially R/O membrane filtration system with pore size of  $0.001\sim 0.0001\mu\text{m}$  with high reduction rate can eliminate those germs, heavy metal, agrichemical elements up to 95~99% for safe-clean water production.

- **2. 2 Understanding Filtration Process of this system**

( Alterable based on regional water condition)



## 2. Reverse Osmosis Filtration Technology

### 2.3 Features of each filter stage

ITEMS	FEATURES	NOTE
FILTRATION SYS.	-MICRO FILTER 20"	Remove secondary 1~5micron size floating particles and turbidity
	- ACTIVATED CARBON 20" - CARBON BLOCK 20"	Remove and adhere organism, smell, taste , various kinds of small matters that exist in raw water
	-R/O MEMBRANE 4021 or 4040	Removes various heavy metal, Germs, Virus, ionic matters
	-POST CARBON FILTER	Removes smell and taste and makes water taste better



### 3. Components of the R/O system

\* Main Components,

ITEMS	FEATURES	NOTE
1	MICRO FILTER 20"/20" BLUE HOUSING	
2	GAC FILTER 20"/20" BLUE HOUSING	
3	CTO FILTER 20"/20" BLUE HOUSING	
4	REVERSE OSMOSIS membrane filter	
5	POST CARBON FILTER	
6	R/O PUMP	
7	WATER PRESSURE TANK	
8	LOW/HIGH PRESSURE SWITCH	
9	INTER WATER PRESSURE GAUGE	
10	SOLENOID VALVE/CHECK VALVE	
11	R/O PUMP PRESSURE GAUGE	
12	FLOW METER/FLOW RESTRICTOR	
13	FLUSHING VALVE	
14	FAUCET	

## 4. Capacity of the R/O system

Model		CAPACITY
HCRO-300G	 A compact, white reverse osmosis system with three blue vertical filter housings and a top-mounted control panel.	1.1TON/DAY
HCRO-400G	 A white, floor-standing reverse osmosis system with a control panel on top and a transparent door revealing internal components.	1.5TON/DAY
HCRO-600G	 A white, floor-standing reverse osmosis system with a control panel on top and two doors open, showing the internal filter housings and storage tank.	2.2TON/DAY

## 5. INSTALLATION

### 4.1 Proper place

- The Clean place(inside)  
No vibration, dust, corrosion, gas, dirty oil, and water
- The place of temperature between 1°C to 40°C
- The place to be able to connect raw water pipe and drain water pipe
- The non-freezing place
- Flat floor with a ventilator
- Inlet water pressure shall be over 1~2kg/cm<sup>2</sup>

### 4. 2. Installation step

- 1) Tubing connection on the back of products should be connected with each usage ( Inlet water, outlet water, tank, drain).
- 2) Carbon filter needs to be flushing with manual flushing valve for 2~3min at the initial installation,
- 3) Set the local time of timer for Bypass
- 4) Turn on the system
- 5) Once pressure tank is filled up with a water, the system is automatically stopped