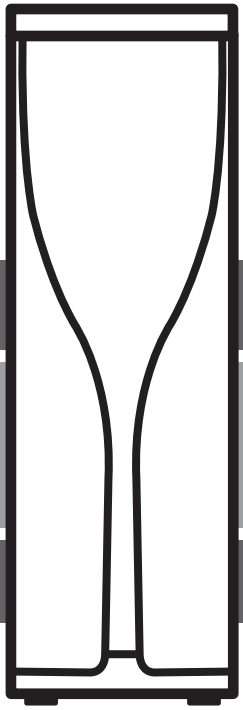
Puricom®



CIH-H2

Hydrogen water generator

USER MANUAL

TABLE OF CONTENTS

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INTRODUCTION

Thank you and congratulations on selecting the Puricom CIH-H2 ATOM Hydrogen water generator.

Your Puricom CIH-H2 ATOM Hydrogen water generator will provide many benefits and advantages:

- High-Concentration hydrogen water generator.
- Immediately generating hydrogen water.
- Molecular hydrogen fights free radicals in your body and protects your cells from the effects of oxidative stress.
- Auto cleaning function, maintain the hygiene of hydrogen water generator.
- Water electrolysis cell automatic cleaning function.
- Water electrolysis cell automatic detection of abnormal function.
- Motor soft starter extending the lifespan of the system.

PREVIOUS WARNINGS

Attention: Please read this manual carefully before installing and using your equipment.

Attention: The water treatment equipment needs periodic maintenance, carried out by qualified technical personnel, in orderto guarantee the quality of the water produced and supplied.

⚠ APPLICATION, INSTALLATION AND START UP WARNINGS

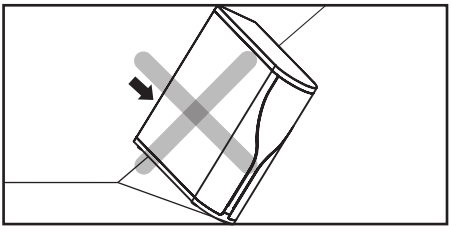
1.Its application is recommended as a post treatment of a domestic water treatment system by reverse osmosis with a pressurized tank (max. of accumulation in the 2.5 bar tank) ◦

Attention: In the case of treating water from a water treatment equipment using reverse osmosis, with a pressurized accumulation tank and a control system by means of a mechanical "shut off" valve, the accumulated water in its tank may be pressurized at a pressure greater than 3 bar. (Depend on the network pressure of the installation). Then a 3 bar tared pressure limiter should be installed at the entrance of the hydrogenation equipment.

2.In case of feeding the equipment with hard water or not decalcified, there may be a reduction in useful life of certain components of the equipment, which may cause premature operation.

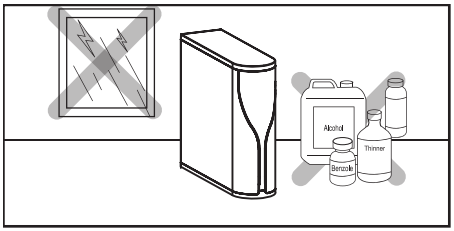
Attention: The maximum inlet water pressure the equipment is 3 bar. Install at the entrance of the equipment a pressure regulator set at less 3 bar, if necessary.

The teams need an electrical outlet at us 1 meter away.



1.Attention: Do not install the equipment lying down, neither in sloping or unstable places. If you do so, could cause a malfunction or fall of the same.

2.The place foreseen for its installation must have sufficient space for the apparatus itself, its accessories, connection and for carrying out easy maintenance.



1.Under no circumstances should the equipment be installed outdoors, or in places where it receives direct sunlight. Do not install the equipment in humid places or near flammable products .

2.The equipment must not be installed next to a heat source or directly receiving a flow of hot air over them (dryer, dishwasher, refrigerator, heater, boiler, etc).

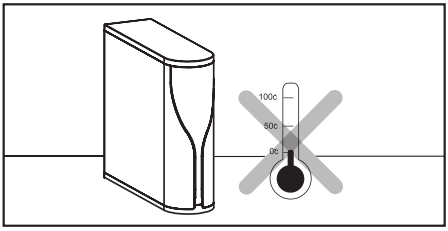
3.The equipment should not be installed in front of a refrigeration or air conditioning system.

4.The equipment should not be installed near a heater or boiler that works with a flame.

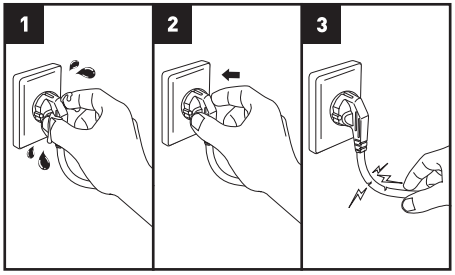
5.The environment and environment where the equipment and faucet are installed must meet adequate hygienic-sanitary conditions.

6.Avoid external drips on the equipment from pipes, drains, etc.

7.To carry out the first filling, let the equipment fill with the water to be treated before electrically feeding the equipment.



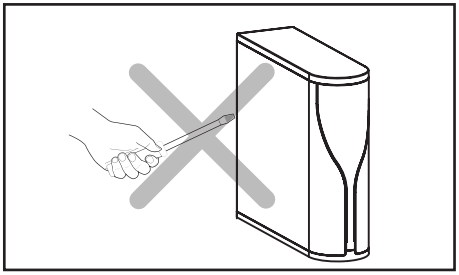
1.The equipment should not be installed in places where the ambient temperature can drop below 5ºC, since the contained water could freeze and cause damage to the product .



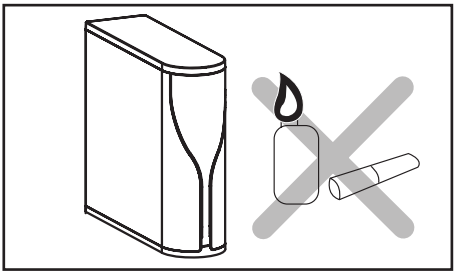
1.Do not handle the electrical connectors of the equipment with wet hands. There could be a risk of electric shock.

2.Connect the plug firmly. An insecure connection made improperly could cause a fire.

3.Do not pull the power cable to disconnect it from the connection base, as this could cause fire or electric shock.



1.Do not try to disassemble, repair or modify the equipment arbitrarily after its failure. Maintenance and repair must be carried out by trained personnel.



1.Do not leave cigarettes or products with flames on the equipment, as they could cause a fire.

USE WARNINGS

1.When you will be away for more than a week, empty the equipment and isolate it. To do this, turn off the hydraulic water supply to the equipment, open the dispensing tap and when water stops coming out of it, turn off the electrical supply to the equipment (by acting on the switch on the rear of the equipment).

2.When you return, power the equipment hydraulically and electrically and discard 5 liters of water before consumption.

3.after a prolonged period (more than a month), in which the equipment has been found to be malfunctioning or dispensing water, contact your dealer or technical assistance service in order to carry out proper cleaning and maintenance.

4.Extract full jugs or bottles, avoiding the occasional extraction of glasses, in order to optimize the performance of the equipment.

5. After several hours at rest, and depending on the distance between the equipment and the tap, the first glass of water dispensed could contain a concentration of dissolved hydrogen lower than that provided by the equipment in its normal operating regime. Discard the first glass of water after a few hours of rest.
6. Attention: special attention should be paid to the cleanliness and hygiene of the water dispenser tap, regularly and especially at the time of periodic maintenance. In no case should the rag be used to dry hands or a multi-purpose cloth used for cleaning the kitchen.
7. Do not drink directly from the dispenser or rest the bottle or container on the tap or dispenser.
8. After commissioning, empty 5 liters before consuming the water.
9. Do not use continuously for more than 30 minutes, as certain components could over heat.
10. The equipment should not be fed with hot water.
11. Before moving the equipment, empty it. To do this, open the tap, disconnect it from the electrical supply and cut off the input water supply to be treated. When the equipment stops and no water comes out of the tap, close it, disconnect the electrical plug and pipes from the back. Place a plug on the corresponding connectors to avoid dripping during transport.

MAINTENANCE WARNINGS

1. The consumable elements should be replaced with the indicated frequency according to the characteristics of the water and the expected frequency of use. See the corresponding section of this manual.
2. The equipment must be sanitized periodically and during equipment startup.
3. Maintenance must be carried out by qualified personnel, with the appropriate attitude and hygienic conditions, in order to reduce the risk of internal contamination of the apparatus and its hydraulic system. (For more information contact your Technical Assistance Service).

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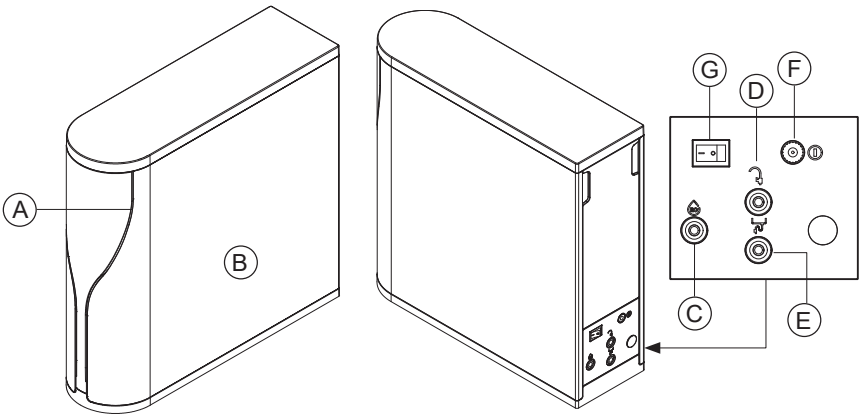
SPECIFICATIONS

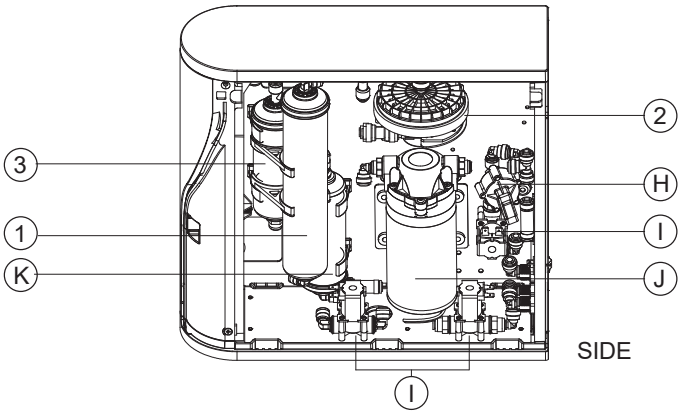
Model	CIH-H2
Type	Hydrogen water generator
Voltage	AC100-240V/DC24V/6.35A
Dimensions	(HxWxD) 405 x 125 x 395 mm
Inlet water	RO water(Do not use tap water directly.)

INLET WATER REQUIREMENT

Inlet TDS (maximum)	<60ppm
Inlet water pressure (maximum)	20~60 PSI
Temperature range (max/min)	45°C/5°C (113°F/41°F)
Water capacity	1~1.2L/min
H2 concentration (ppm)	1.4ppm~2.0ppm

■ PARTS DE SCRIPTION





A	Indicator panel cover	G	Power switch	1	1ST filter: Alkaline filter
B	Side cover	H	Low pressure switch	2	2ND filter: Hydrogen
C	RO pure water inlet side	I	Solenoid valve	3	3RD filter: Carbon
D	Hydrogen outlet	J	Pump		
E	Waste water outlet	K	Diffuser		
F	Power plug				

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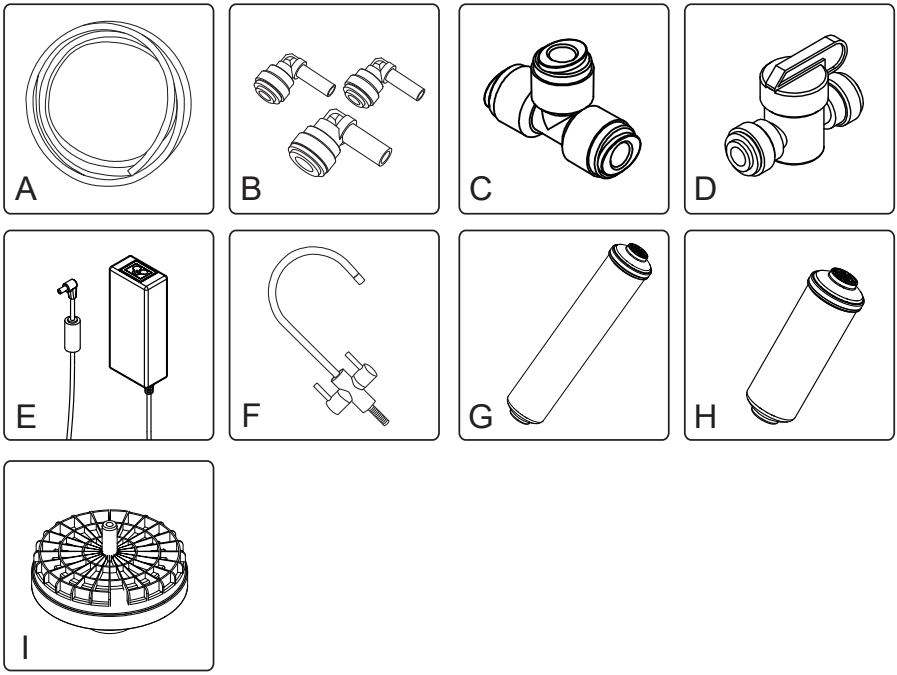
■ ACCESSORIES AND FILTERS

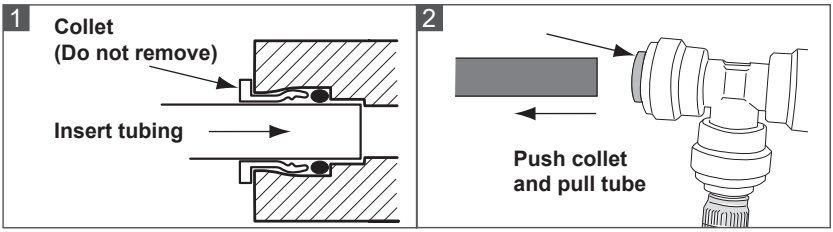


Accessories pack	A.PE Tube	B.Q fitting	C.T type Q-fitting
	D.Inlet ball valve	E.Transformer	F.Faucet
Filter	G.Alkaline filter	H.Carbon filter	
Others	I.Electrolytic cell		

■ 3 STAGE FILTRATION AND LIFE TIME

Order	Filter element/ Electrolytic cell	Features	Change time
1	Prefilter akaline	Adds beneficial minerals to drink water.	3 Months
2	Hydrogen	Hydrogen water generator.	2 Years
3	Prefilter carbon	Absorption of trace ozone during electrolysis.	1 Year

■ HOW QUICK CONNECTORS WORK

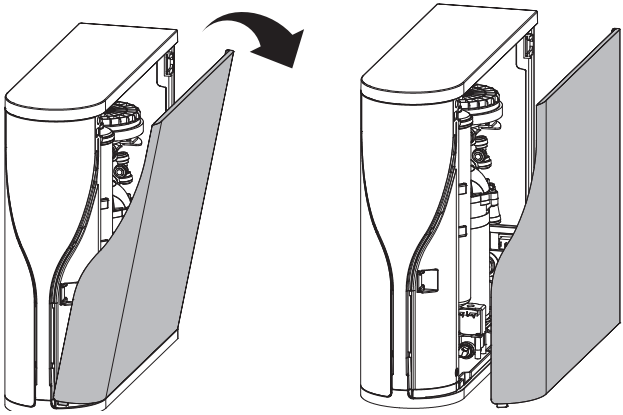


1.Ensure the tube edge is clean and free of burrs. Push the tube into the connector until it stops.

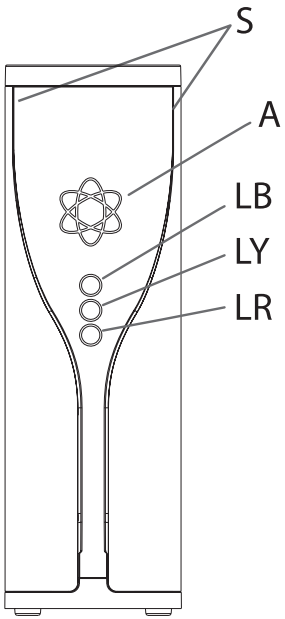
2.Push down the collet and pull to remove the tube from the connector.

HOW TO OPEN CASE

To open case cover, just follow graphic as below for both side.



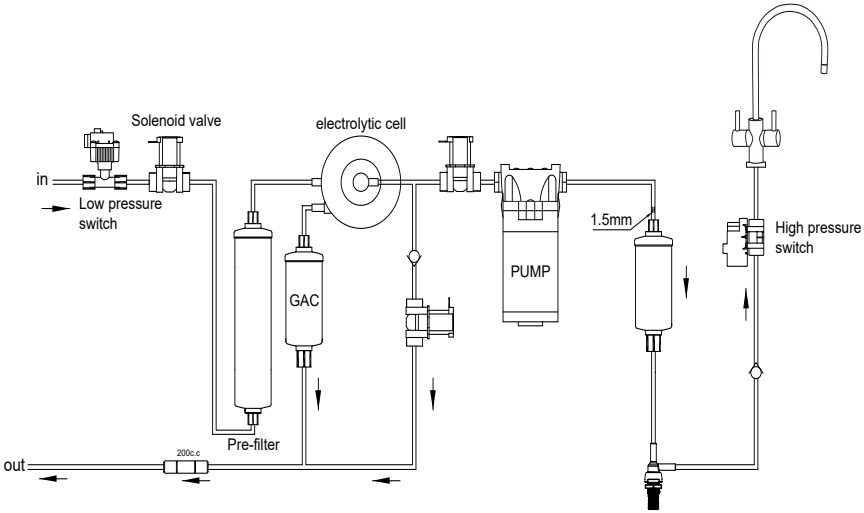
INDICATOR



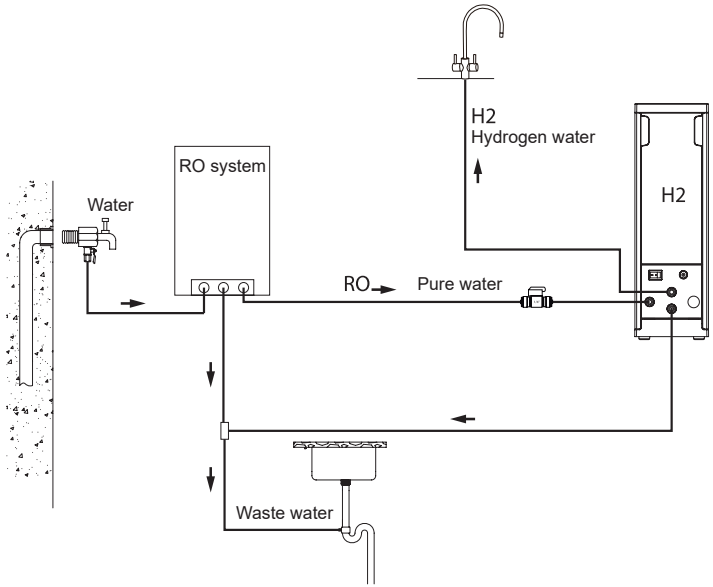
S	Status
A	Hydrogen working
LB	Indicator for error
LY	Low pressure
LR	Serious error

Light Indicator	Sound	Status	Situtation
No light		Power saving mode	install under sink and dark environment will automatic start Power saving mode.
S-Blue occulting LB-Blue occulting		Stand by	Stand by mode when have light.
A-Blue S-Blue LB-Blue		Hydrogen generatoring.	Machine in operation.
S-Yellow LB-Blue LY-Orange	 Alarm	Lack of water pressure	Low pressure detector.
S-Yellow flash LB-Blue	 Alarm	Filter Exchange	1.the life of filter is end, please exchange filter. 2.Please contact service center for help.
S-Red flash LB-Blue	 Alarm	System shut off	1.System stop working. 2.Please contact service center for help.
S-Blue LB-Blue LR-Red flash		Electrolysis failure	Please contact service center for help.

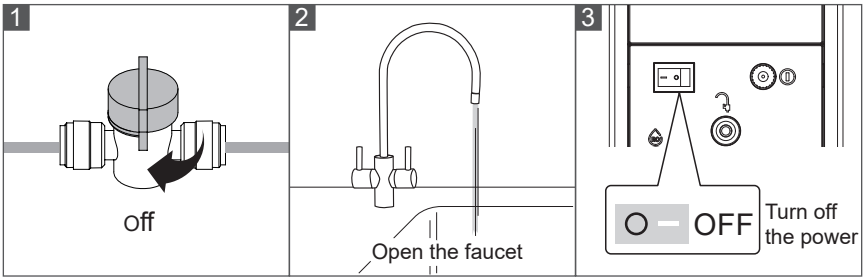
■ HYDROGEN WATER SYSTEM FLOW CHART



■ MACHINE INSTALLATION FLOWCHART



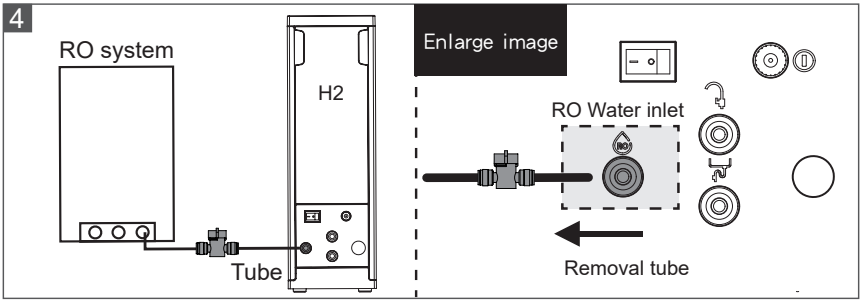
■ PREFILTER REPLACEMENT (FOR 1ST STAGE FILTERS)



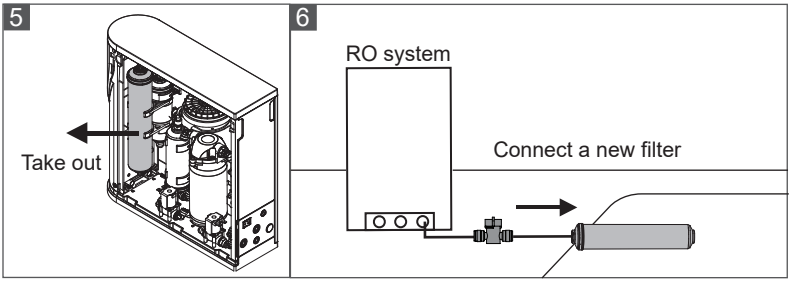
1.Turn off feed water at the feed water valve.

2.Turn on the faucet to release pressure from the tubing.

3.Turn off the hydrogen water generator.

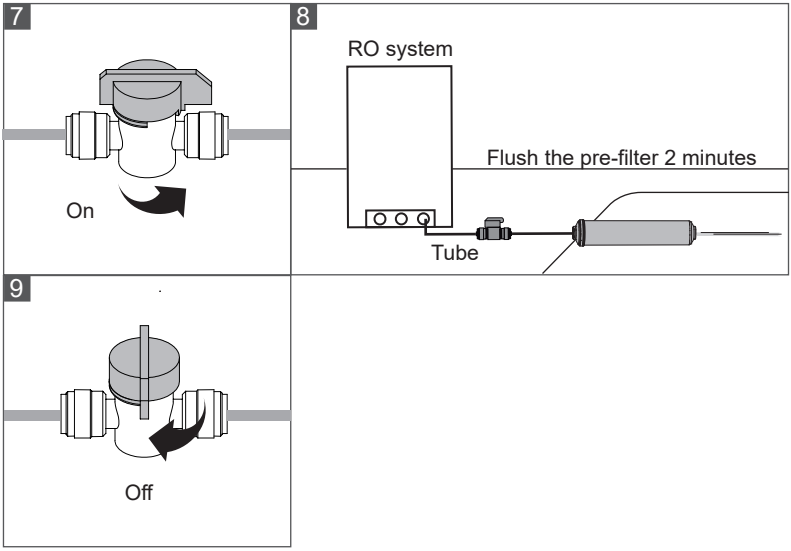


4.Unplug the RO water inlet pipe on the hydrogen water generator.



5.Open the housing, remove the front filter element, and remove the anti-leak band on the joint screw.

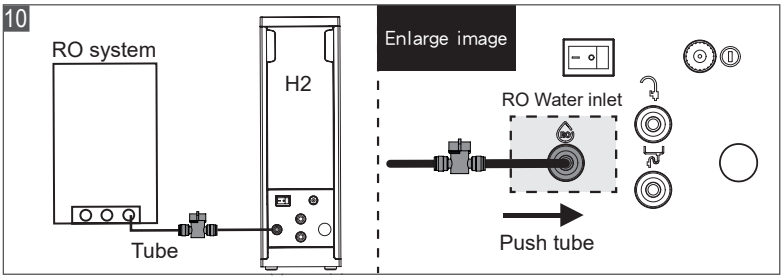
6.Insert the new filter element into the pure water outlet line of the RO system.



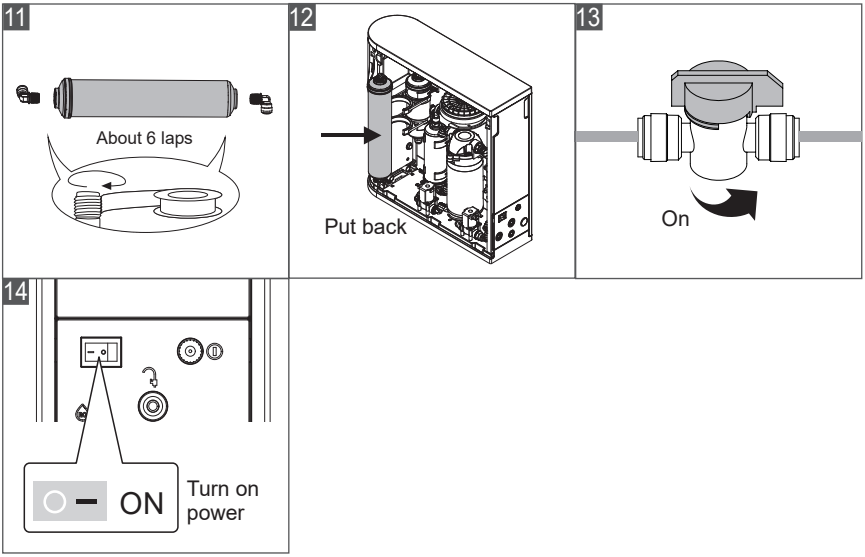
7.Turn on the feed water ball valve.

8.Please wait for 2 minutes to flush the pre-filter, until no toner flows out.

9.Turn off feed water at the feed water valve.



10.Connect the water outlet line of the RO system to the RO inlet end of the hydrogen water generator.



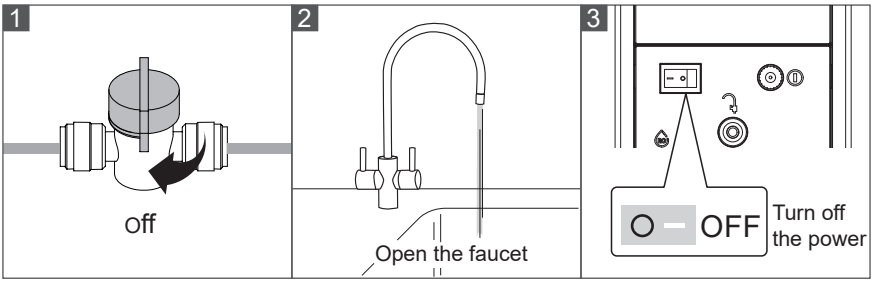
11.Re-wrap the connector on the anti-leak band, install the new filter element, and insert it back into the pipeline.

12.Replace filter and reconnect all fittings.

13.Turn on the feed water ball valve.

14.Turn on the hydrogen water generator power switch and you can use.

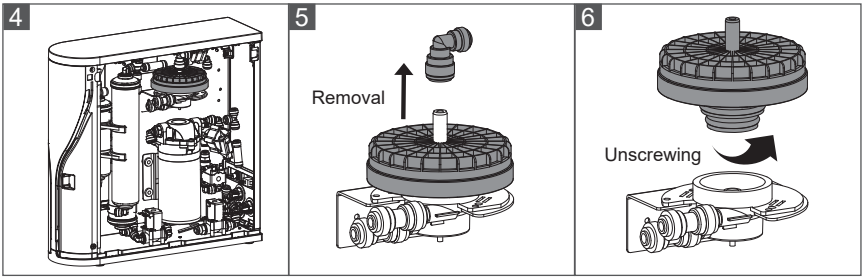
ELECTROLYTIC CELL REPLACEMENT



1.Turn off feed water at the feed water valve.

2.Turn on the faucet to release pressure from the tubing.

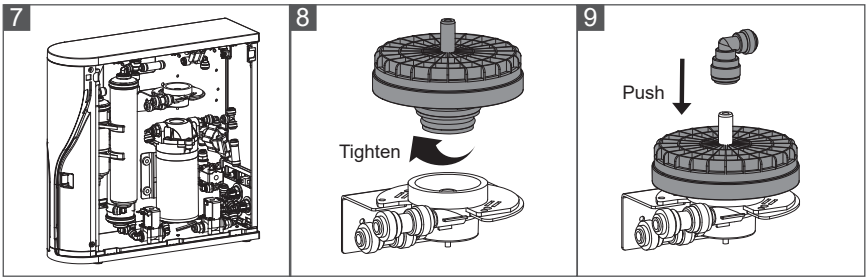
3.Turn off the hydrogen water generator.



4.The gray area is the electrolytic cell.

5.Refer to P.8 remove the Remove the connector from the electrolytic cell.

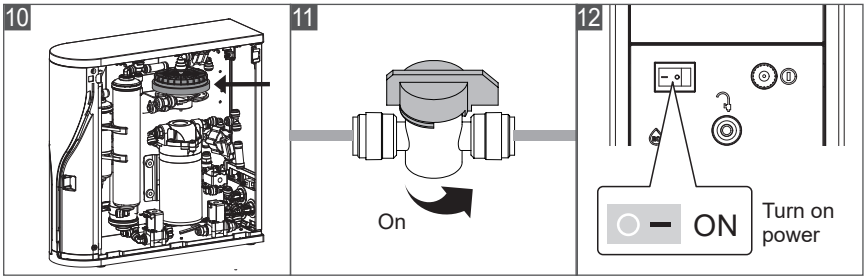
6.Turn the electrolytic cell counterclockwise to release it and pull it up.



7.Removal of electrolytic cell is completed.

8.Put the new electrolytic cell into the machine and turn it clockwise to lock it.

9.Refer to P.8 Insert the connector and tighten.



10.Electrolytic cell replacement is complete.

11.Turn on the feed water ball valve.

12.Turn on the hydrogen water generator power switch and you can use.

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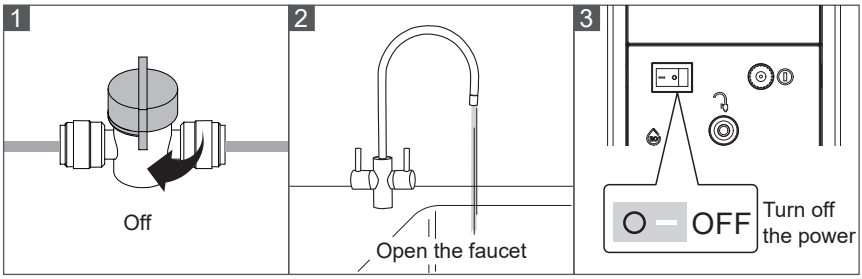
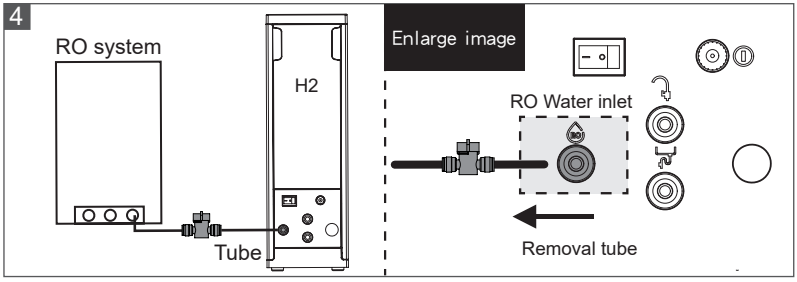
■ REPLACEMENT OF ACTIVATED CARBON FILTER (FOR 3RD STAGE FILTERS)



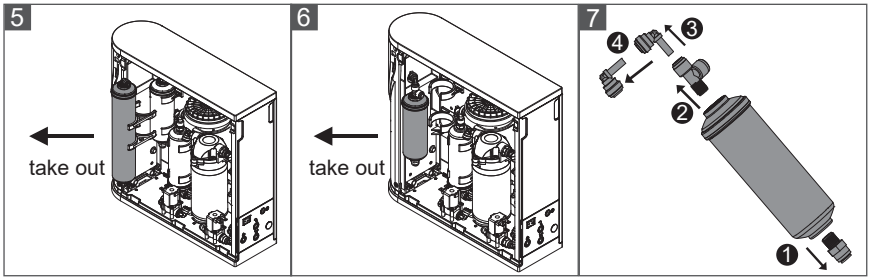
1.Turn off feed water at the feed water valve.

2.Turn on the faucet to release pressure from the tubing.

3.Turn off the hydrogen water generator.



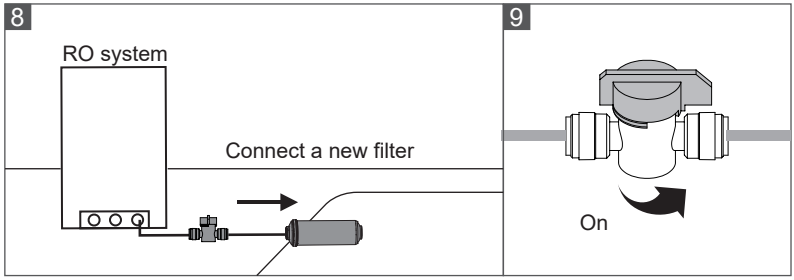
4.Unplug the RO water inlet pipe on the hydrogen water generator.



5.Open the housing and remove the front filter element from the fixed single clip.

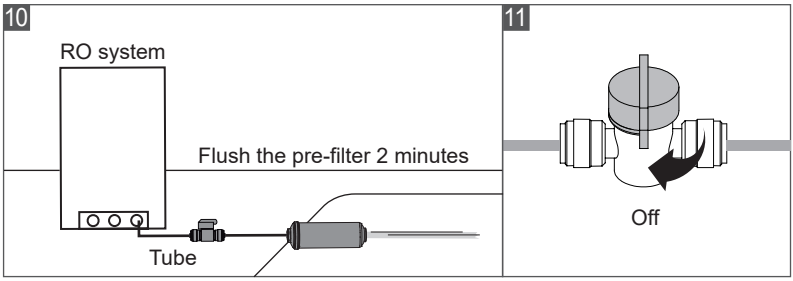
6.Then remove the activated carbon filter element from the fixed single clip.

7.Remove the joints on the inlet and outlet ends of the ❶ and ❷ threads and remove the anti-leak band from the threads.
Refer to p.8 Unplug the ❸ and ❹ connectors.



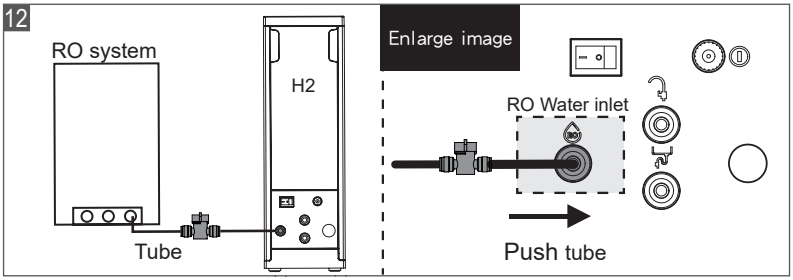
8.Insert the new filter element into the pure water outlet line of the RO system.

9.Turn on the feed water ball valve.

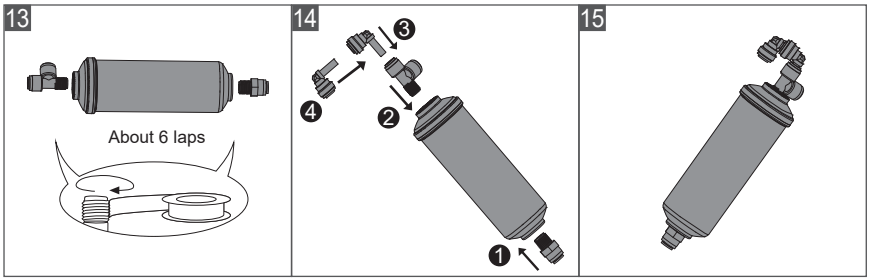


10.Please wait for 2 minutes to flush the pre-filter, until no toner flows out.

11.Turn off feed water at the feed water valve,Remove the activated carbon filter.



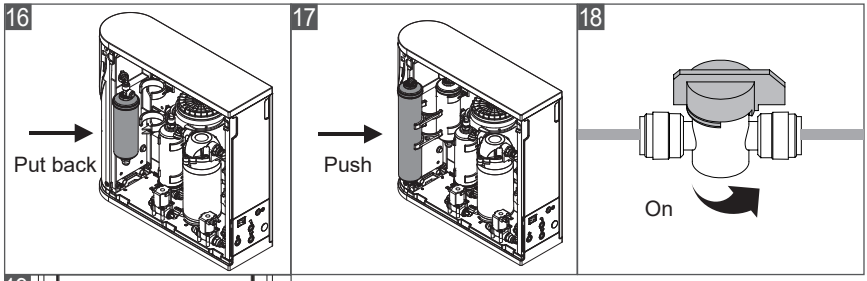
12.Connect to the RO water inlet pipeline of the hydrogen water generator.

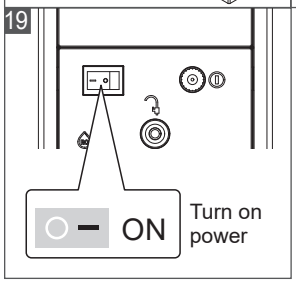


13.Reconnect the connector to the anti-ventilation strap.

14.Connect ❶ and ❷ back to the inlet and outlet ends of the new filter element. Refer to p.8 Insert ❸ and ❹ connectors.

15.Connector assembly is complete.





16.Push the new activated carbon filter back into the single clip and fix it.

17.Push it into the front filter back into the single clip.

18.Turn on the feed water ball valve.

19.Turn on the hydrogen water generator power switch and you can use.

■ TROUBLESHOOTING REFERENCE

Abnormal	Possible causes	Disposal method
Front panel lights are off	1.Electricity failure. 2.Light sensor error.	1.Check power. 2.Check that the rear switch or transformer is properly inserted. 3.Please contact customer service. 4.Check the light sensor.
Water output becomes smaller	Insufficient flow at the RO inlet	1.Check if the RO machine provides sufficient pressure and flow. 2.Check whether the pressure tank of the RO machine has sufficient pressure. If the pressure is insufficient, wait until the pressure tank is full of water. 3.Please contact customer service.
System detected abnormal hydrogen production	Abnormal hydrogen production	1.If it is a newly installed machine, please fill and drain the waterway inside the machine first, about 3 minutes. 2.Please contact customer service.
Insufficient hydrogen water concentration	Make sure that the electrolytic cell is working correctly	1.Before measurement, drain 2 cups of water, about 500 C.C. ensure that the hydrogen concentration is ≥1.4ppm. 2.Please contact customer service.

System maintenance reminder	The system will require regular maintenance or regular cleaning operations.	Please contact customer service.
System shutdown reminder	The system stops automatically because there is no regular maintenance.	Please contact customer service.

2020.01

Puricom Water Industrial Corp.

www.puricom.com
sales@puricom.com
+886-4-23359968
+886-4-23359967

Member,
Water Quality
Association