RCT600 Countertop Water Filtration System

INSTALLATION INSTRUCTIONS & OPERATING MANUAL Ver. 04/2020



123Filter.com
iSpring Water Systems, LLC (since 2005)

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We stand behind our products

iSpring has been dedicated to providing high-quality drinking water to families across the United States since 2005.

From various residential water filtration systems that purify your water in everyday life, to drinking water faucets that deliver pure, healthy, and tasty water to you and your family, iSpring strives for high standard products and aims to make excellent drinking water accessible for all households.

At iSpring, we strive for high standard products and aim to make excellent drinking water accessible for all households.

With affordable pricing, reliable quality, prompt delivery, and top-notch customer service, we hope to assist in bringing you great water for years to come.

Prior to Installation

Read this instruction manual carefully prior to installation.

Keep this manual readily available for future reference.

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Precautions

1-1 Safety Issues

Please note the following rules for safe use of this product.



Troubleshooting
If the machine fails, please disconnect the water source immediately.



Maintenance
To avoid leakage or damages, never remove the parts on the machine.



Keep away from children
Never have the machine operated by a child.



Temperature
Please use the product in a dry place with a water temperature of 4-38°C.



Precautions
If the machine is not in use for a long time, keep the RO membrane humid by placing in a zig bag.



Avoid freezing
Never store in or expose the product to an environment below freezing.



Avoid direct sunlight
Do not install the machine in a place exposed to direct sunlight.



Correct repair service
This machine can only be repaired by qualified personnel designated by iSpring.



Technical support
For help, please call iSpring customer support.



Accessories and filters
To maintain the normal operation of the machine, be sure to use accessories and filters supplied by iSpring.

1. Any losses caused by improper operation are assumed by the user.

2. This appliance is intended to be used in municipal water supply only; the system is designed for residential use only, and is great for campers, vacation or rental properties where installing a separated faucet is not possible.

3. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or a lack of experience and knowledge, unless they have been given supervision or instructions concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
 - Vacation homes, rental properties, or RVs.

4. Specifications

Model N.O.	RCT600
Inlet Water Pressure*	50 psi - 116 psi
Optimal Inlet Water Pressure	70 psi
Inlet Water Temperature	41°F - 95°F
Maximum Pure Water Flow**	Up to 600 GPD

* Booster pump recommended if inlet water pressure is less than 50 psi, or inlet water temperature is lower than 65°F
** Tested with water of 150 ppm TDS, at 70 psi and 77°F. Actual flow rate differs from different conditions.

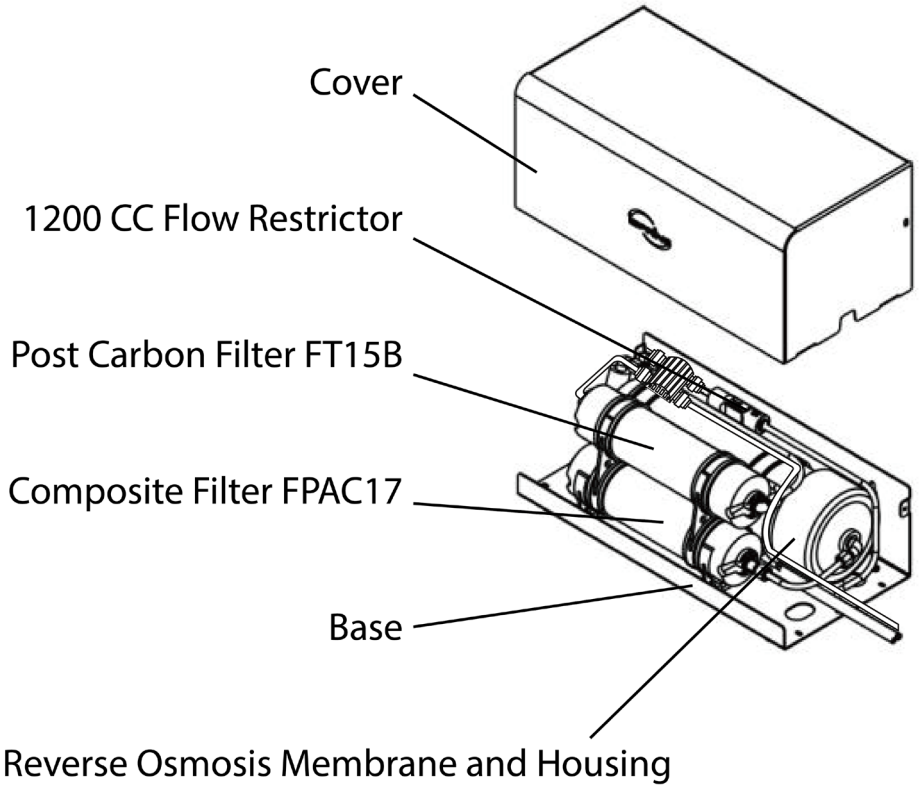
5. The appliance must not be immersed in any liquid.

1-2 Packing List

Qty	Part
1	Pre-assembled system (filters/tubing are all pre-installed)
1	User's manual
1	Housing wrench
1	Three-way connector and valve
1	All-purpose faucet adapter
1	Standard 55/64" female faucet adapter
1	Roll of plumber's tape
1	Suction disk

Your Water Purification Expert

2-1 Part Name of Water Purifiter

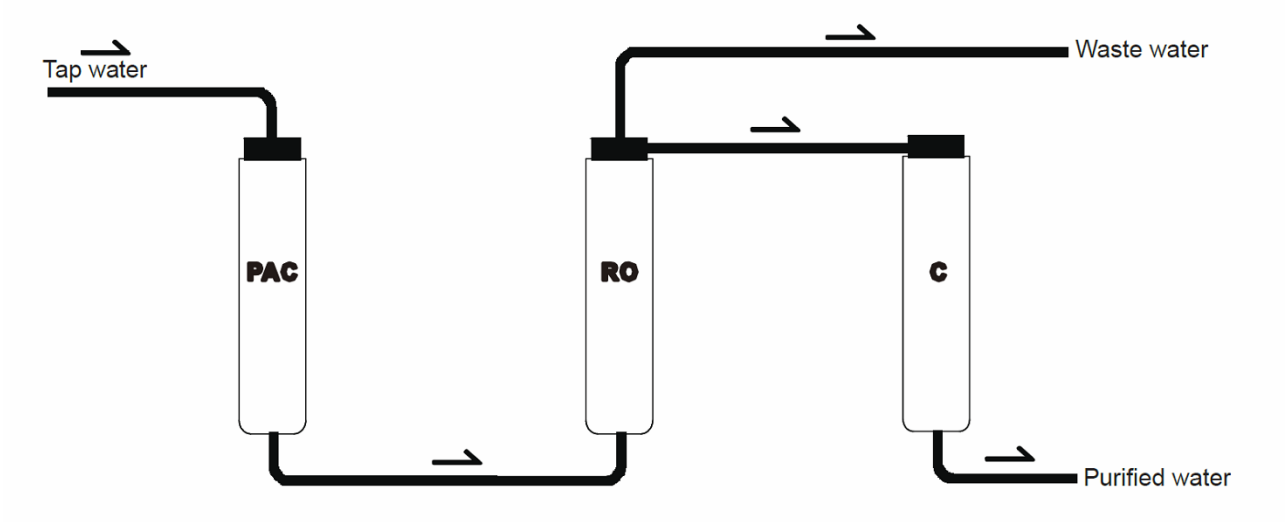


2-2 Product Features

Rated at 600 gallon per day, this system comes with a non-pump, tankless design.

2-3 Working Principle

Flowchart of Water Generation



Introduction to Filters

Stage	Name	Illustration	Changing Schedule
Stage 1	PAC composite filter		6-12 months
Stage 2	RO membrane filter		24-36 months
Stage 3	Activated carbon filter		12 months

***Actual filter life may vary based on specific water conditions.

Installation and Maintenance

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If there is any questions or concerns during the installation, please call iSpring's technical support at 1-678-261-7611 Monday thru Friday, 9:00 am – 5:00 pm, EST.

3-1 Installation

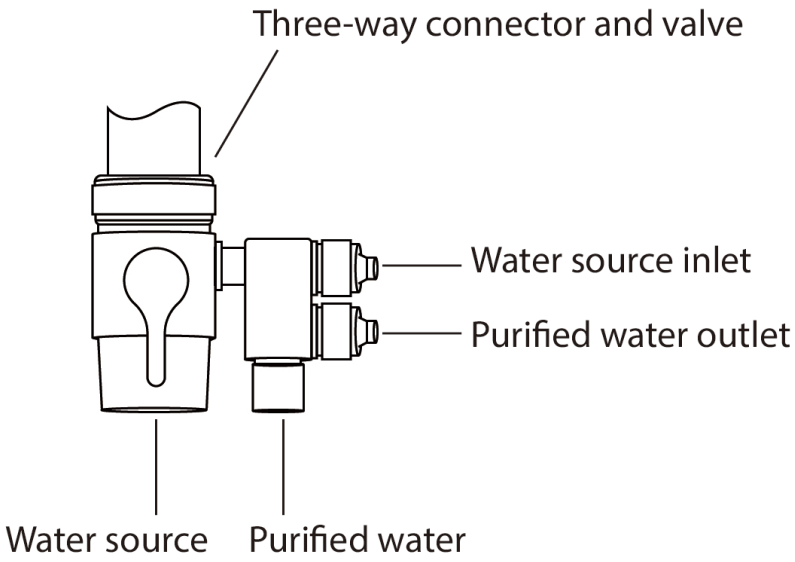
This system is can be installed counter top on the existing faucet (parts are included) or under the sink with optional installation kit **(not included).** For information of the under-sink installation kit, please consult our customer service department or check out our website listing.

1. This part of instruction is drafted for installation on existing faucet only.

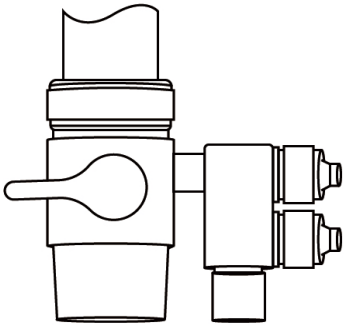
2. Install the 3- way feed water valve to the faucet. If the faucet is standard size, simply replace the existing aerator with the included standard 55/64'' adapter by screwing off the aerator. A wrench might be needed.
   If the faucet is not standard sized, please use the included all-purpose adapter instead.
   Gently apply 2-3 rounds of plumber's tape on the adapter, then screw the feed water valve to the installed adapter, make sure the connection is tight by using the wrench to tighten it.

3. Insert the red tube to the adapter port labeled with" in". Connect the blue tubing to the adapter port labeled with "out". The white tubing from the other side of the system is the waste water drain line, and should be inserted to the included suction disk and then attach to the sink sidewall.
   Note: the tubing should be pre-installed to the system. If the tubing came loose, please contact iSpring customer service for help.

4. Turn on the faucet. To use the tap water, turn the handle on the feed water valve to the "on" location as shown below:



To use get reverse osmosis water, turn the handle to the "Off" location, shown as below:



Check if there's any leak inside the system or from the feed water valve. If there's leak on the valve, make sure enough plumber's tape has been applied and the adapter is tight enough. If there's any internal leak, contact iSpring customer service immediately.

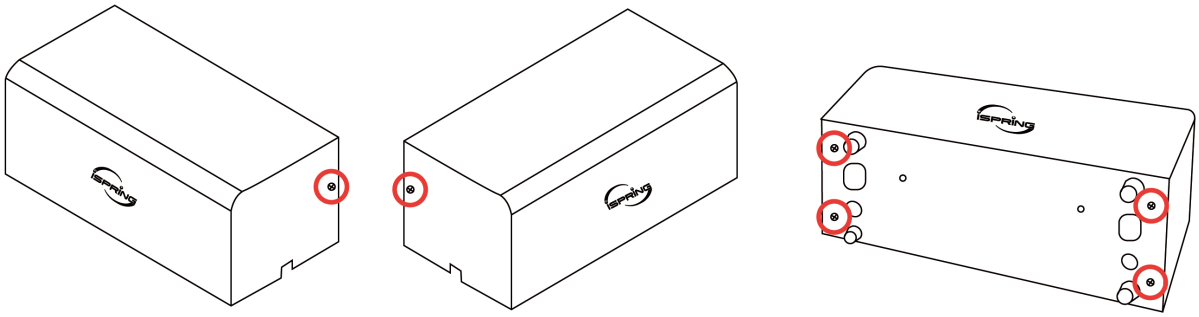
5. RO water will flow out from the smaller water outlet located on the valve. Rinse the whole system for at least 30 minutes before using the filtered water.

6. The installation is now completed. Please monitor the water quality by testing the water with a TDS meter and change filters based on our recommended schedule.

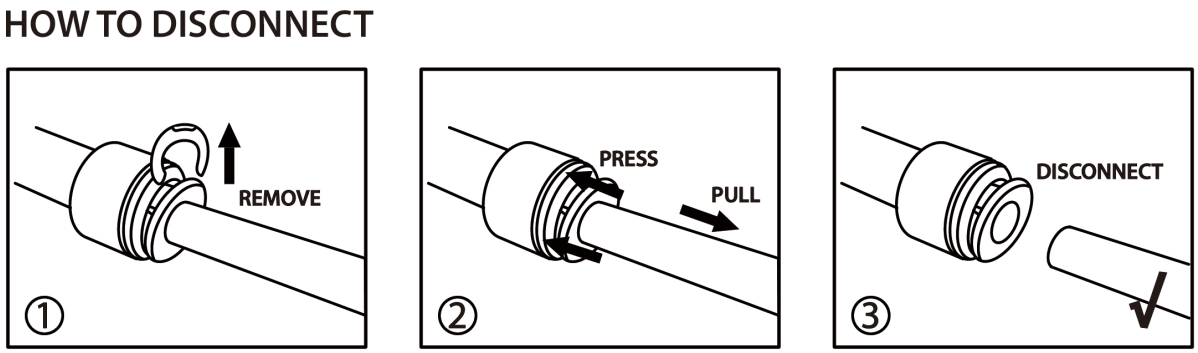
3-2 Replacing filters:

1. Turn off the water supply, drain all excessive water remained in the system.

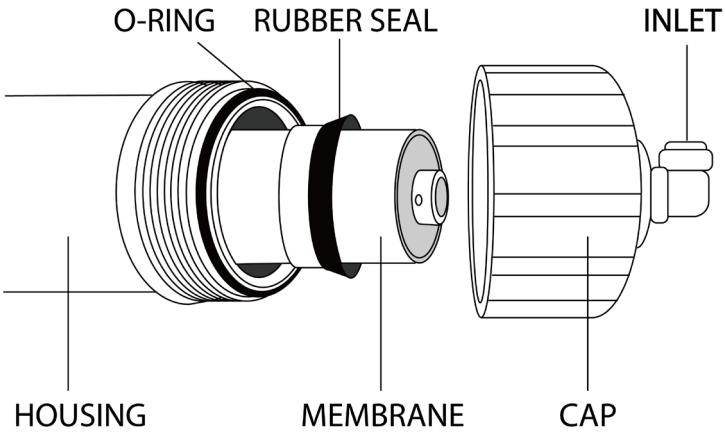
2. Remove the case of the system by removing the 6 screws on the edge with a Philips screw driver.



3. The PAC filter and post carbon filter use ¼'' inline quick fitting on both ends. To remove the old filters, pop out the lock clip first, then use both hands, press the fitting ring with one hand, pull the tubing out with another, as shown below.



4. To replace the reverse osmosis membrane, remove the tubing from the quick connect fitting on the membrane housing (refer to previous steps on how to remove quick connect fittings), use the housing wrench included in the package, twist off the housing cap in a counter-clockwise direction. Pull out the old membrane, due to water pressure in the housing, pliers may be needed. Clean and rinse the membrane housing with running water. Hold the new membrane, insert it into the housing with the end with black rubber seal facing out, as shown in the image below.



Place the membrane housing cap back, make sure the o-rings are in place on the housing, and hand tighten it. Use the housing wrench to tighten another ¼ - ½ of a turn.

5. Let the water running and flush the system for at least 30 minutes each time any filter is replaced before consumption.

3-3 Troubleshooting

In case of the following circumstances, please follow the instructions below.
Please contact iSpring's technical support at 1-678-261-7611 with the product model number (RCT600) and failure details.

Failure	Cause	Solution
No flow or low flow	Filter is blocked.	Unplug the unit and close the water source. Please contact iSpring for assistance.
Poor water quality	Fine carbon powder contained in water.	Contact iSpring for assistance in replacing filters.
	RO membrane expired or damaged Post carbon filter not replaced in timely manner.	Flush the post carbon filter or replace the post carbon filter.

Warranty

This Limited Warranty extends to the original purchaser of the system only. This warranty covers all Manufacturer-supplied items only that prove to be defective in material, workmanship, or factory preparation. This warranty covers parts only; all labor is excluded from this warranty, including, but not limited to, services related to the removal, replacement, installation, adjustment, maintenance, and/or repair of the unit or its components items. excludes all non-Manufacturer labor required for any servicing of the unit, including, but not limited to, servicing related to installation, adjustment, maintenance, and repair of the unit. This warranty applies only for the first full calendar year from date of purchase. The following items are excluded from this warranty: membranes, filters, O-rings, and all other parts or components that require regular replacement as a result of ordinary usage.

Disclaimers: This Limited Warranty applies only if the system is installed, used, and maintained in compliance with all instructions and requirements enclosed with the system. This warranty will be void for failure to observe the following conditions:
1. The system is to be used with potable water supply only.
2. Feed water pressure to the unit is no less than 45 psi (30 psi for systems with built-in booster pump) and no greater than 70 psi.
3. The system is to be used on water supplies with chlorine concentrations of 1.0 mg/L (ppm) or less.
4. Feed water temperature to the unit must be no less than 40°F and no more than 100°F.
5. Total dissolved solids (TDS) in feed water must be less than 750 mg/L (ppm).
6. Feed water must have a pH between 4 and 8.
7. Turbidity must be less than 1.0 NTU.
8. SDI must be less than 5.
9. Feed water must be completely free of iron, manganese or hydrogen sulfide.

While the testing was performed under standard laboratory conditions, actual performance may vary. The Manufacturer does not know the characteristics of your water supply. The quality of water supplies may vary seasonably or over a period of time. Your water usage may vary as well. Water characteristics can also change if the drinking water appliance is moved to a new location. The Manufacturer assumes no liability for the determination of the proper equipment necessary to meet your requirements, and we do not authorize others to assume such obligation on our behalf.

This Limited Warranty does not cover any Manufacturer-supplied items that are defective as a result of the use of improper parts, equipment or materials. This warranty does not cover alterations or modifications of the unit or failure of a unit caused by such alterations and modifications.

This Limited Warranty does not cover malfunctions of the unit due to tampering, misuse, alteration, lack of regular maintenance, misapplication, fouling due to hydrogen sulfide, manganese or iron, scaling from excessive hardness, turbidity greater than 1.0 NTU, Silt Density Index (SDI) greater than 5.0 SDI, or excessive membrane hydrolysis due to chlorine levels in excess of 1.0 mg/L (ppm). In addition, damage to the unit due to fire, accident, negligence, act of God, or events beyond the control of the Manufacturer are not covered by this warranty.

Incidental and Consequential Damages Limitation: The Manufacturer will not be responsible for any incidental or consequential damages as a result of the failure of this unit to comply with express or implied warranties or any defect in the unit, including but not limited to, lost time, inconvenience, damage to personal property, loss of revenue, commercial losses, postage, travel, telephone expenditures, or other losses of this nature. In case some states do not allow the exclusion or limitation of incidental or consequential damages, you may choose to return the system. If you choose to keep it, you insist this exclusion STILL apply to you.

Owner's Warranty Responsibilities: As a condition of this Limited Warranty, the owner must ensure that periodic maintenance of the system is performed as described in the literature enclosed with the system. Neglect, improper maintenance, abuse, modification, or alteration of the unit will invalidate this Warranty. Should your unit develop a defect or otherwise fail to perform in accordance with this warranty, you should contact the retailer from whom the product was originally purchased.

Implied Warranties: The implied at-law warranties of merchantability and fitness for a particular purpose shall terminate on the date one year after the date of purchase.

NOTE: IN CASE SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, YOU MAY CHOOSE TO RETURN THE SYSTEM. IF YOU CHOOSE TO KEEP IT, YOU AGREE THAT THE ABOVE LIMITATIONS STILL APPLY TO YOU.

Warranty Registration

To register your product for the warranty, visit our website at 123filter.com and go to the "Warranty" tab.

We provide a 30-day money back guarantee, a 1-year manufacturer warranty, and lifetime tech support for all of our products. However, we do not have the order information from websites other than 123Filter.com (Amazon, Home Depot, etc.), so please be sure to fill in that information upon registration of your system. If you have any questions or concerns about your product, please do not hesitate to call or email us, or put it in the notes/comments upon your warranty registration. Your satisfaction is our business!

If you are happy with our products and service, please show your support by writing a product review on Amazon, even just a single line. It takes you just a minute，but means a lot to us. Thank you!

How to Contact Us
Office Hours: Monday-Friday 8:30 a.m. - 5:30 p.m. EST
Phone: (678) 261-7611
Email: support@123filter.com



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Alpharetta, GA 30004, USA

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For questions, comments, or technical support, please contact us at:

support@123Filter.com

(678) 261-7611

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