



SimPure T1-400 UV Tankless Under Sink Reverse Osmosis System User Manual

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T1-400



RO Water Filtration System
Model: T1-400
T1-400UV
Retain owner's manual for future reference

Revision	Date	Description
01	03/2022	New document.

Images used in this manual may not represent your actual product; they are a visual aid only.

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Getting Started

Introduction

Thank you for purchasing the SimPure® T1-400 RO Water Filtration System, delivering purified water to your home or office, Please refer to the SimPure® website for the latest product information, including manuals, product videos, support materials, and where to purchase SimPure® products and consumables.



The T1-400 is a piece of durable equipment, with proper care it will last for many years. This owner's handbook outlines the installation, operation, and maintenance requirements to sustain perfect product performance. The T1-400 features different stage of filtration to produce clean water for your family

- Sediment removal
- Chlorine removal
- Taste & odor filtration
- Reverse Osmosis (RO)
- T33(Composite activated carbon)
- UV (Only for T1-400UV)

T1-400 can filter out impurities and particles from your water, such as sediment, dirt, rust, chlorine, odors, lead, organic matter, and heavy metals, giving the water a much better taste.

Warning & Caution

SimPure® products are designed with safety in mind. However, personnel working on these units must be familiar with any potential dangers. All safety information detailed in this handbook should be reviewed before installing and operating this water purification system.

This product is not a toy, please keep children away from the System or use under adult supervision. Please keep packing materials out of children's reach.

The System has been designed for indoor use only. Install the System out of direct sunlight and secure it to a vertical surface such as a wall or inside a cupboard at ambient room temperature.

Do not move the System without first shutting off the water supply, draining, and releasing the water pressure.

This unit is for use with cold municipal tap water or potable well water that has been tested safe by a certified laboratory. Never use hot water or unknown/unsafe sources of water.

The installation of the System must comply with your local and state regulations. Please check before commencing installation.

In case of malfunction, shut-off the water supply to the System.

If any part of the System is damaged or missing, replace the item before use.

Warnings and Cautions are provided; Failing to observe the instructions could result in damage to the equipment, associated parts, surroundings, or personal injury.

Operating Guidelines

The following table lists the operating parameters for this product. Operating this product outside these specifications may cause system performance issues and may even lead to personal injury and void any warranty. Please contact Sim Pure® for further advice and support if unsure about the requirements.

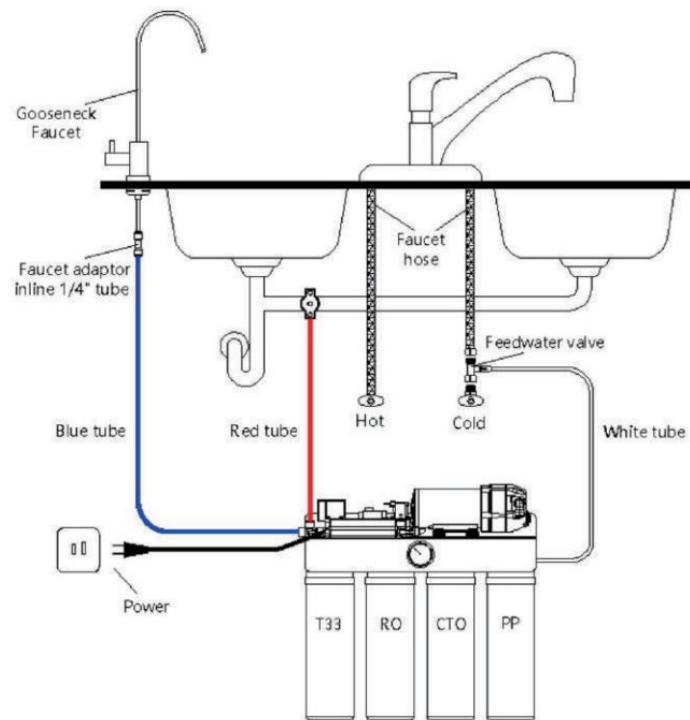
Operating Parameters

Model	SimPure® T1-400 & T1-400UV
Maximum Flow Rate	500 Gallons per day Note: Dependent on feedwater type, operating pressure and water temperature.
Power Requirements	110 Volts 60Hz AC. 6Watts
Feed Water Type	Municipal Potable/Tap water or Well water meeting government drinking water standards
Feed Water Pressure	15 -60 PSI Note: Install a pressure regulator if exceeding this feed water pressure
Feed Water Temperature	41-100°F (5-38°C)
Ambient Temperature	40-104°F (4-40°C)
Feedwater TDS* level	5 500 ppm
UV Light	UV wavelength range: 270-280nm UV dose: 8600uJ/cm2
Water Hardness (Optional)	For best results use a softened feedwater supply with a hardness level below 10 grains per gallon, with no iron present.

* TDS = Total Dissolved Solids, which is the total weight of all solids dissolved in a given volume of water, expressed in units of mg per unit volume of water (mg/L), also referred to as parts-per-million (ppm). With a SimPure® TDS meter, you can easily compare the system outlet quality with your source water to help monitor the performance of the system

Typical Installation

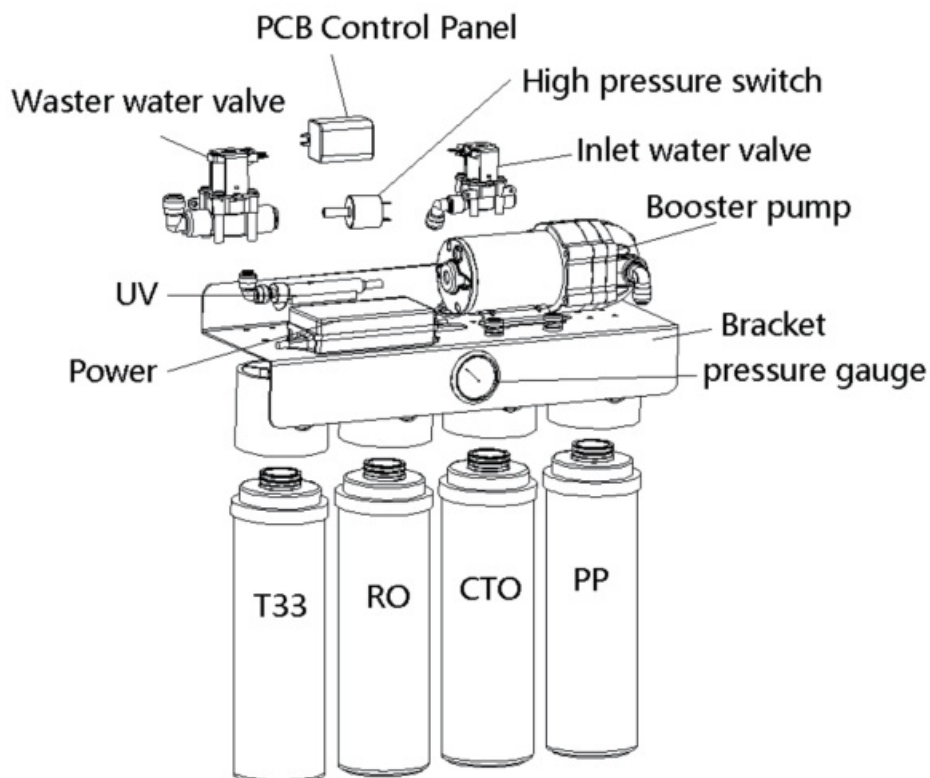
The following illustration is an example of a typical under sink installation .
No additional accessories required.



Installation

System Contents

Your SimPure® T1-400 Water Filtration System was carefully assembled, packaged, and shipped complete with the parts you should require for a standard installation.



Unsure about something? Is there a problem?

Please contact SimPure® through our website or toll-free number.

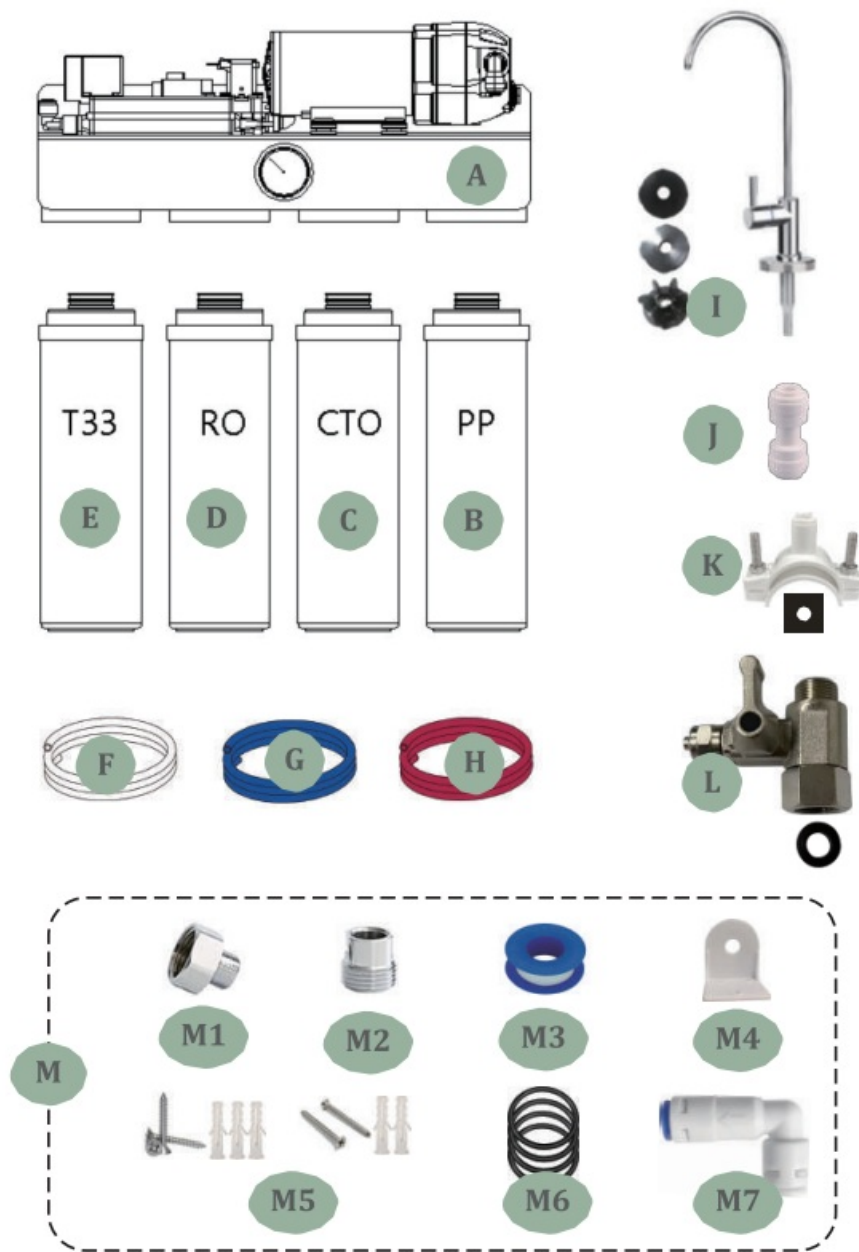
Installation Kit

Carefully unpack your SimPure® T1-400 Water Filtration System. Layout the parts, so you can familiarize yourself with the components, check nothing is missing before you start the installation,

Package Contents List

Description

A	Main body
B	PP filter cartridge
C	CTO filter cartridge
D	RO filter cartridge
E	T33 filter cartridge
F	Tubing 1/4" PE (White ,59 inches)
G	Tubing 1/4" PE (Blue ,59 inches)
H	Tubing 1/4" PE (Red ,59 inches)
I	Gooseneck faucet
J	Faucet adaptor 1/4" tube QC
K	Drain saddle
L	Feedwater valve 1/2"
M	Spare parts kit
M1.	3/8" male comp. x 1/2" female NPT convertor fitting
M2	1/2" male NPT x 1/2" female comp. convertor fitting
M3	Teflon tape (roll)
M4	Faucet mounting plate
M5	Self-tap screws M5X36mm & wall plugs (x5)
M6	O-rings for filter cartridges (x4)
M7	Check Valve, the arrow direction is the water direction



Installation Guide

Read the entire manual thoroughly before beginning your installation. Take note of the safety tips and follow all steps to ensure your system is installed correctly before use. Installation needs to comply with state and local laws and regulations; you must check and comply with all local plumbing codes. Warnii Massachusetts, USA, require installation by a licensed plumber and does not permit the use of saddle valves. (plumbing code 248-CMR of the Commonwealth of Massachusetts)

Hand tools required

Essential hand tools are required to install the SimPure® T1-400 RO water purification system. An electric drill, drill bits up to 1/2" (12.5mm), Adjustable wrench, tube cutters (or knife), cross-head screwdriver (Phillips).



Plan your Installation

Your SimPure® T1.400 Water Purifier can be installed under a sink or in a remote location. Typical remote sites include a laundry room or utility room. Review the location options below and determine where you are going to inst your system.

- Option 1: Under-sink. The unit can be installed in a kitchen or bathroom sink cabinet A suitable drain point is required for drain water from the Reverse Osmosis system.
- Option 2: Remote Interior. The unit may also be installed in a remote interior location away from the RO Faucet. You will need a nearby feed water source and drain point connection.

Check Location and Space Requirements

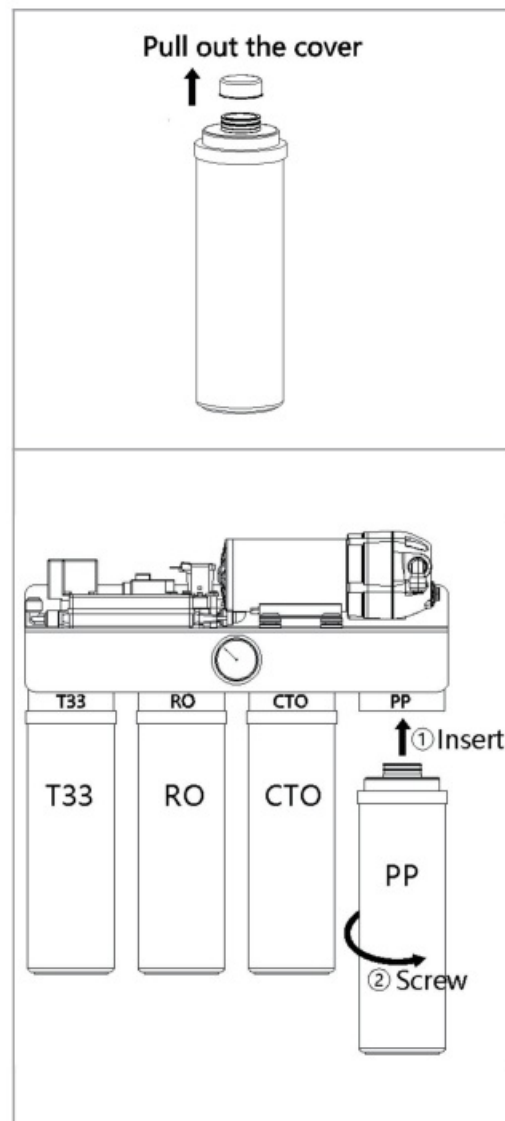
Determine and check the size and position of the T1-400 for proper installation into the chosen space and remember to leave enough room around the System for changing filters and maintenance.

Installation Steps

Step 1 – Install the T1-400 Assembly

Take out the filter cartridges.

Remove the protective film and pull out the protective cover.



Install the filter cartridges,

According to the mark on the main body, insert the corresponding filter cartridge into the main body first, and then screw it tightly.

Install the PP, CTO, RO and T33 filter cartridges in sequence.

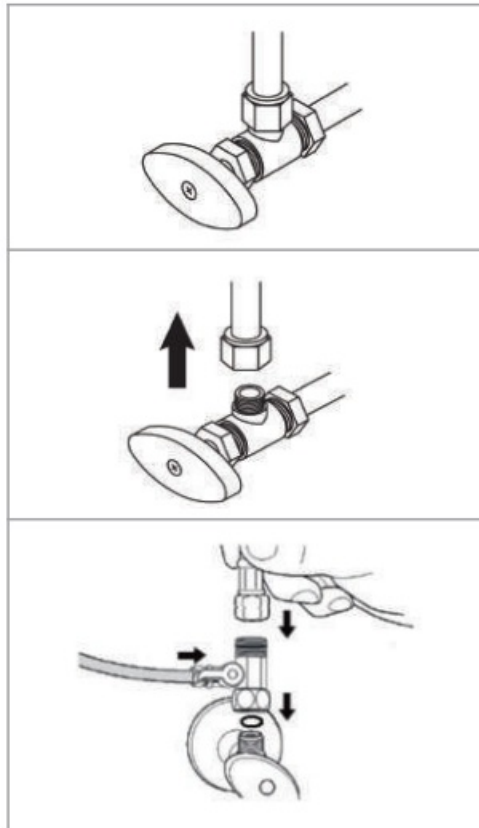
Warning: Refer to the markings to ensure that each filter cartridge is installed in the correct location.

Step 2 – Install the feed water adaptor valve

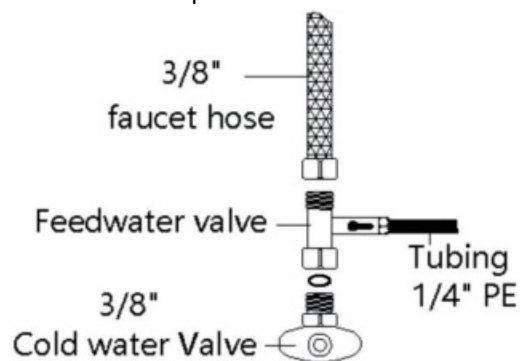
If the cold water valve outlet is 3/8", it can be directly connected by following steps.

Locate Shut off valve. Turn off the COLD water shut off valve located under the sink,

Warning: Make sure you have turned the water supply off before starting any plumbing work.

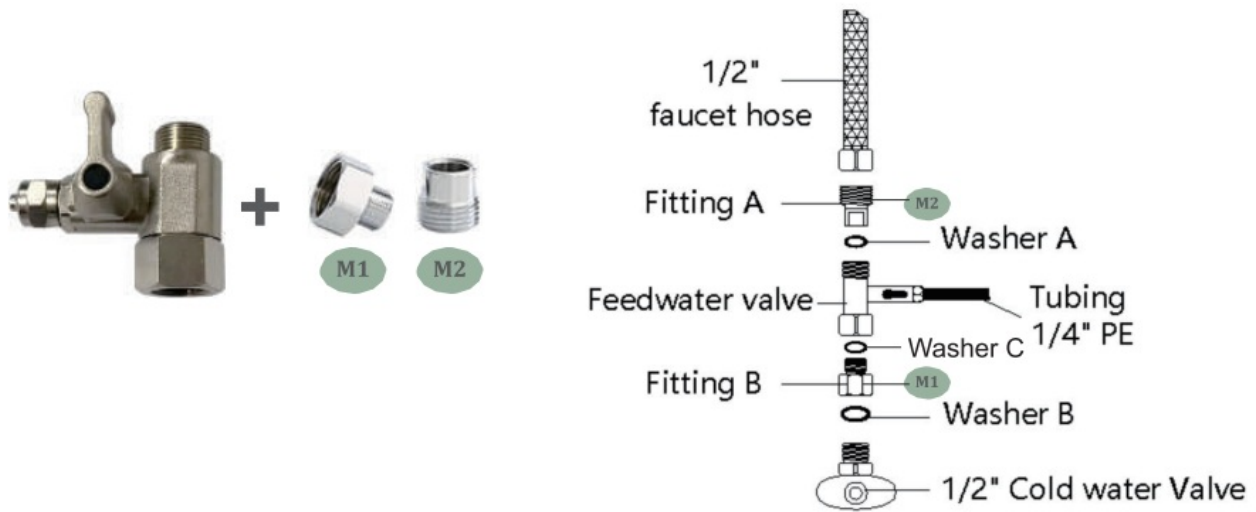


Remove the original connection from between the faucet and the cold water shut off valve under the sink. Connect the cold-water supply and feed water adaptor valve.



Note: Please check if the sealing ring is installed, or it may leakage.

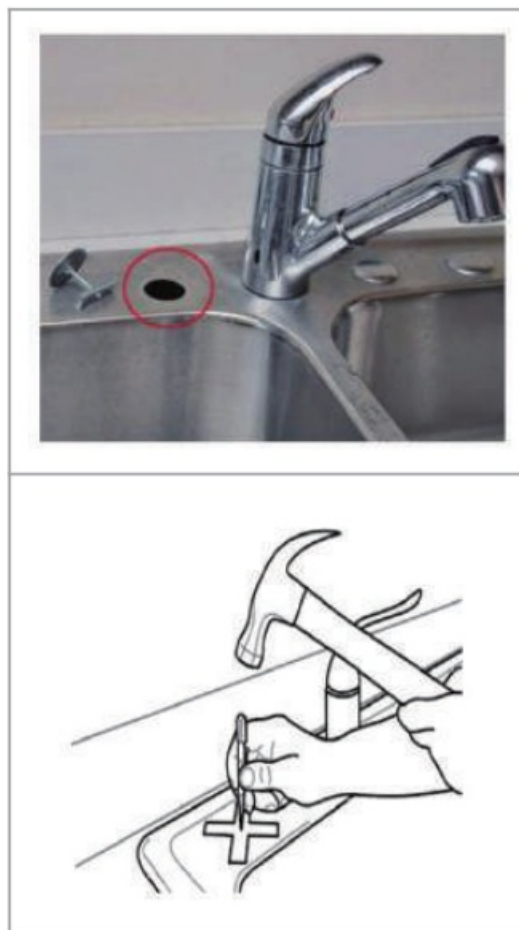
If the cold water valve outlet is 1/2", it can be connected via the following two fittings.



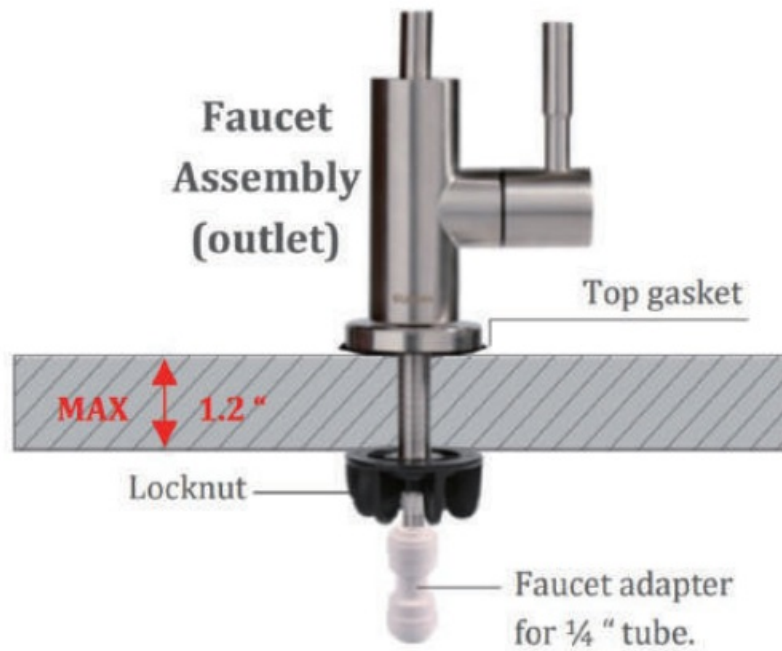
Step 3 – Install the faucet

Fixing to the Sink, Try to install the faucet on the sink surround if possible, using one of the mounting holes already available, remove the cover, make sure you have clear access above and below.

If there are no additional holes available, you will need to drill a suitable hole. A secondary option would be to mount the faucet directly into the countertop next to the sink, Max.thickness 1.2 inches, If you need to drill the countertop, especially for granite, tile, or concrete, you may need professional assistance.

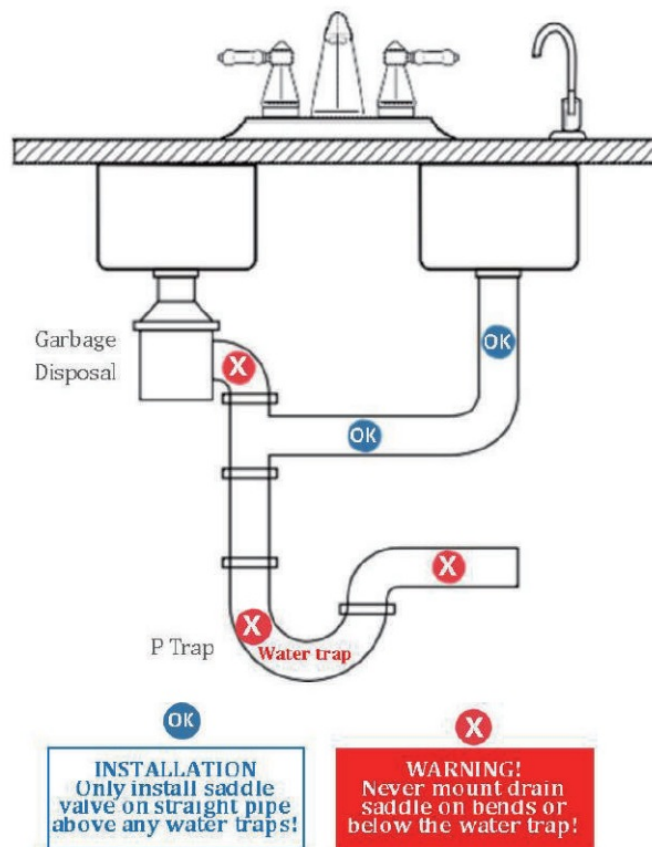


Using a hammer and center punch, mark the hole. Drill a pilot hole first, working up to "2" (12.5mm) drill bit. Insert the faucet through the hole with the top gasket in place and secure it with the locknut.



Step 4 – Install the Drain Saddle

If installing the product under a sink, make sure you connect the drain to a straight piece of pipe and make sure it is BEFORE the water trap ('P' trap or 'U' bend) see diagram below.

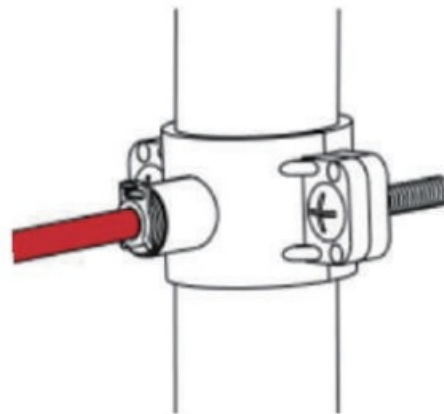
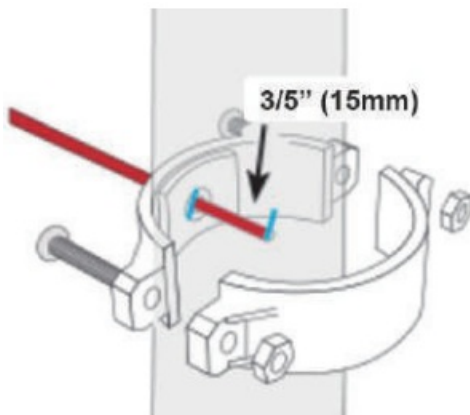


Drill a 4" (6.5mm) hole on the drainpipe with an electric drill.



Remove the backing and stick the saddle valve seal on the pipe, line up the holes,

Assemble the drain saddle valve according to the diagram below and tighten the bolts evenly with the cross-head screwdriver to allow the clamp to fit snugly around the pipe (Do Not Overtighten). Once secure, insert the 4" PE tube into the saddle valve QC fitting and push the tube a further 3/5" (15mm) into the saddle valve, so the end of the tube roughly reaches the middle of the drain pipe.

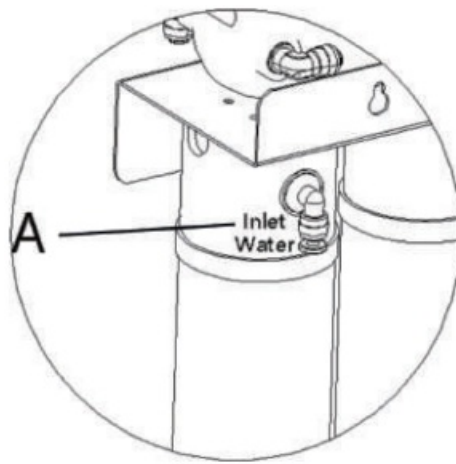


Step 5 – Connect Tubing (refer to page 17 for instructions on use of Quick Connect Fittings)

Follow the instruction below to connect the SimPure® T1-400 Filtration System.

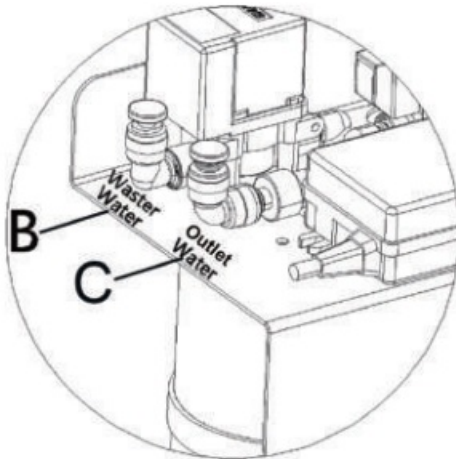
1. Inlet Water (A)

Use 1/4" white tube to connect the Inlet water port and the Feedwater Valve. (refer to white tube connect)



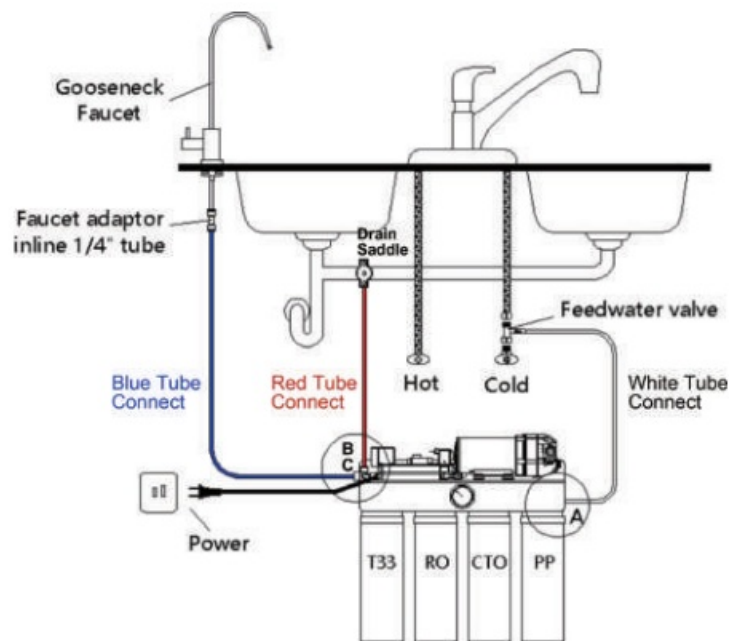
2. Waster Water (B)

Use 1/4" red tube to connect the waster water port and the Drain Saddle. (refer to red tube connect)



3. Outlet Water (C)

Use 1/4" blue tube to connect the outlet water port and the Gooseneck Faucet. (refer to blue tube connect)



Step 6 – System Flushing(start up the system)

1. System flushing—Turn on the Feedwater valve and gooseneck faucet, then plug in and let the system run for 20 minutes to rinse all fittings and the new filter. Check for any signs of leaks.

Warning: Make sure the socket under the sink is powered on, and ensure the system has been plugged correctly into the power outlet,

Note: You may notice Black Carbon particles for the first minute, this is normal

2. Enjoy your drinking water—After flushing, the system is ready for use.

Turn on the faucet and enjoy it.

Note1: Every time you turn on the faucet, the system will need some time to dispense water. There may be a S=second delay before water dispense, which is normal.

Note2: There will be some noise when the system is running, this is normal.

The noise will disappear when the faucet is turned off,

Unsure about something? Is there a problem?

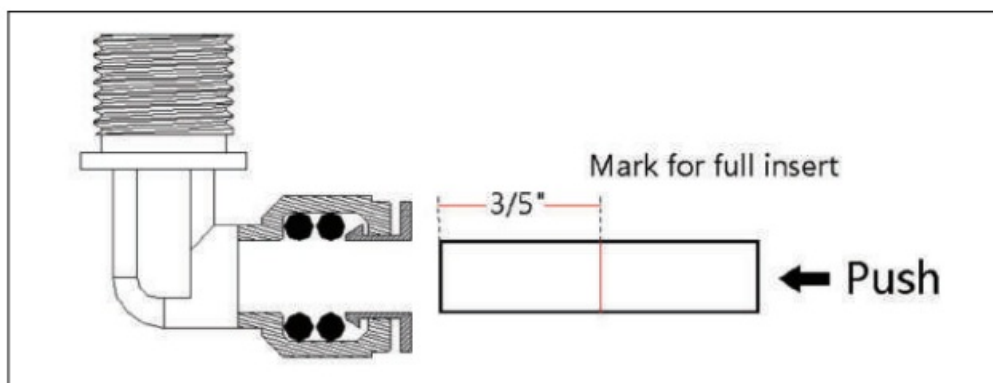
Please contact SimPure® through our website or toll-free number.

Assemble the Components

The SimPure® T1-400 System uses quick-connect (QC) fittings making the installation simple and easy.



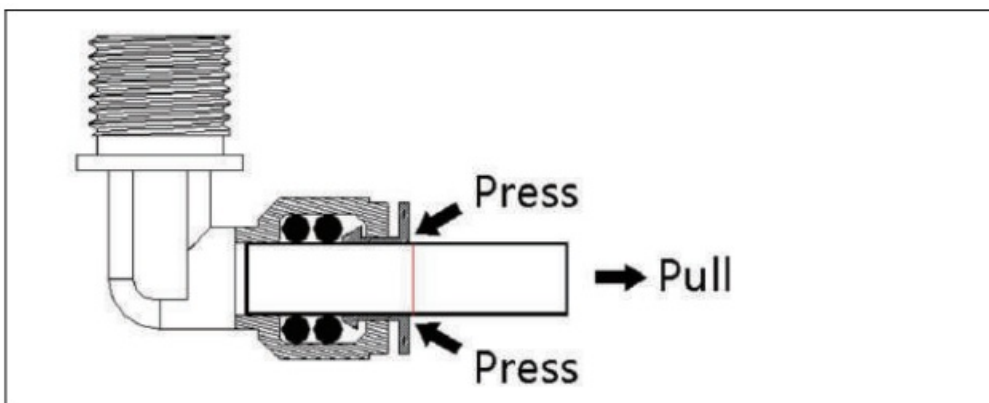
How to insert the tube into a quick-connect.



1. Make sure the tube has a clean square cut with no bur present.
2. Push the tube firmly into the QC fitting, making sure it is located correctly (you will feel the tube 'jump' into position as you push it into the fitting).

The tube is secure once it has traveled 3/5" (15mm) into the fitting,

How to release a tube from a quick-connect.



1. Push the collet down onto the fitting (closing the gap between the collet and fitting) and hold.
2. While holding the collet down, gently pull the tube in the opposite direction at the same time to release.

Operation and Maintenance Guide

It is important to maintain the filters and RO membrane to ensure the outlet water quality is a consistently high standard.

The life expectancy of filters and replacement schedule is dependent on source water quality and water consumption.

Under normal situations, we recommend users replace filters as per the table below:

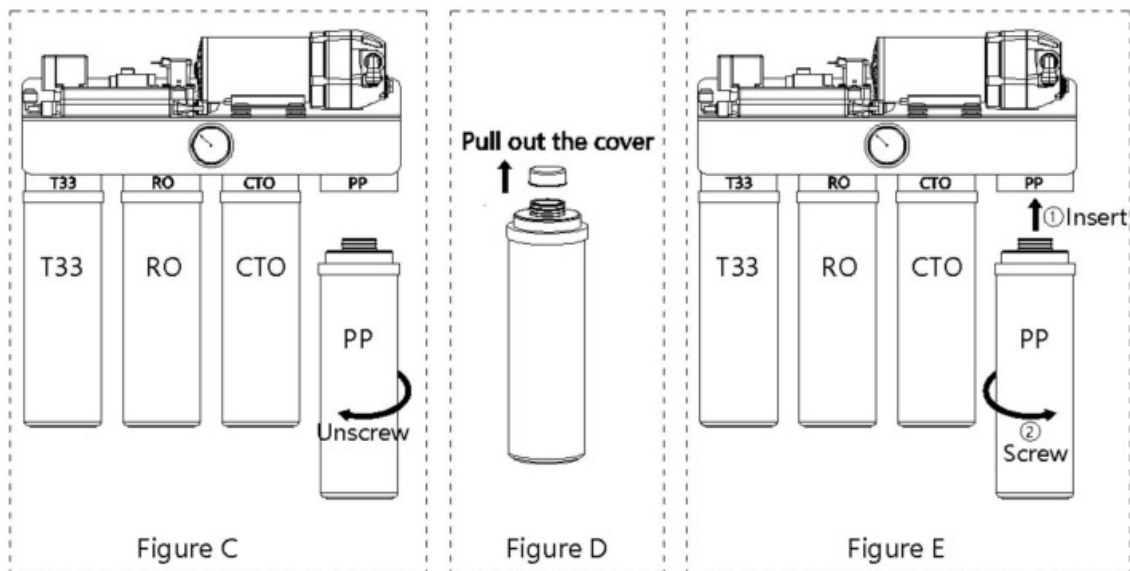
Replacement Filter Part Number

Part No.	Description	Replacement Schedule Months
HEROF01S_S2	PP Filter Cartridge	3-6months
HEROF016_S2	CTO Filter Cartridge	3-6months
HEROF019_52	RO Filter Cartridge	12months
HEROF018_S2	T33 Filter Cartridge	3-6months

Note: When the flow of pure water is less than 0.5L/min, the filter cartridges need to be replaced

If the pressure gauge shows more than 130PSI, the RO filter cartridge needs to be replaced. Otherwise, you need to replace other filters

Filter cartridge replacement steps



Step 1 – Close the shut- off valve and turn on the faucet to release any water pressure.

Step 2 – Unscrew the old filter cartridge.(See Figure C)

Step 3 – Take out the new filter cartridge. Remove the protective film and pull out the protective cover.(See Figure D)

Step 4 – Insert the new filter cartridge into the main body first, and then screw it tightly,(See Figure D)

Note: Refer to the markings to ensure that each filter cartridge is installed in the correct location.

Step 5 – Run water to drain for 20 minutes to rinse the new cartridge.

Note: You may notice Black Carbon particles for the first minute, this is normal,

Frequently Asked Questions

Q: The system cannot be powered on after you insert the power plug.

A: Check the power under the sink, as this occurs primarily when the power under the sink is powered off. Also check the connection between the power plug and the power outlet to ensure that the system has been correctly plugged into the power outlet. To test whether there is a problem with the system itself, simply pick up the system and try another power outlet,

Q: No output water from the faucet.

A1: Water supply is off:Turn on the feed water adapter or water supply valve **A2:** Incorrect filter installation:Reinstall the filter and make sure each filter cartridge is installed in the correct location. **A3:** A tubing is crimped:Check all the tubing and remove any crimps,

Q: Low water flow at the faucet.

A1: A tubing is crimped or there is a leak from the tubing connection:Check to ensure that all tubing is installed correctly and completely. **A2:** Low water temperature:Be sure to use it at a temperature of 40-100°F. **A3:** Low water pressure:Confirm the water pressure is between 15-60 psi, **A4:** The filter cartridge has been clogged: If you are using well water as the source, please ensure that the feed water has been through a pre-filtration system. Otherwise, large particles in the well water will easily clog the filter and shorten the filter life.

Q: Why does black water come out during flushing?

A: It's normal that black water comes out when flushing. The purpose is to remove carbon powder remaining on the surface of filter materials. You can normally use it after flushing for 5 minutes,

Q: Filtered water from the faucet tastes like tap water.

A1: Incorrect tubing installation: Make sure the drain tubing is not connected to the faucet. A2: The filter is expired: Replace the T33 filter or RO filter cartridge.

Q: What should I do if the system is leaking.

A: Check all the joints, fittings, and tubing connections to locate the leakage, Make sure the cartridges are well installed. Turn off shut off valve, then solve it.

Warranty

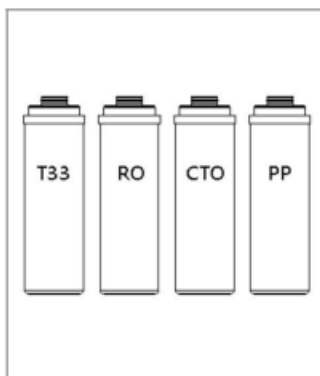
SimPure® warrants to the customer that its residential Filtration System will be free from defects in material and workmanship under normal use and service for a period of 1 year, We will replace or repair any part of the SimPure® T1- 400 System that we find to be defective in operation due to faulty materials or workmanship within one year since the date of the original purchase. Used replaceable filter cartridges and membranes are excluded.

General Conditions

SimPure® obligation to the customer under these warranties shall be limited, at its option, to replacement or repair of items covered by these warranties. Prior to return or repair of covered items, the customer must obtain a return goods authorization number from SimPure® and, at SimPure® option, return the item with freight prepaid by the customer, Damage to any part of this System because of misuse, misapplication, negligence, alteration, accident, installation, or operation contrary to our instructions, incompatibility with accessories not installed by SimPure®, or damage caused by freezing, flood, fire, or Acts of God are not covered by this warranty. In all such cases, regular charges will apply. This limited warranty does not include service to diagnose a claimed malfunction in this unit. This warranty is void if the claimer is not the original purchaser of the unit or if the unit is not operated under normal municipal water or well water conditions, We assume no warranty liability in connection with this System other than that specified herein, This warranty is in lieu of all other warranties, expressed or implied, including warranties of fitness for a particular purpose. SimPure® liability hereunder shall not exceed the cost of the product. Under no circumstances will SimPure® be liable for any incidental or consequential damages or for any other loss, damage or expense of any kind, including loss of use, arising in connection with the installation or use or inability to use the covered items, These warranties are governed by the laws of the state of Washington, USA, and may change at any time without notice.

Consumables

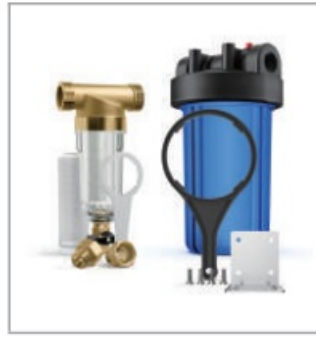
Full selection of consumable items to maintain your SimPure® T1-400 System well into the future are available from SimPure®™ online or through your local Distributor.



Whole House Filtration System

SimPure® Whole House Pre-Filter (DC3 series and Big blue series) help to purify the water coming into your home.

Lasts Longer To Give You The Best Value In Filtration,



Reverse Osmosis System

SimPure® Y7 Countertop RO Water Filtration System help to improve your life, Say goodbye to the hidden dangers of tap water and eliminate the need to purchase bottled water for your home.



Who We Are

- SimPure® is a purification brand based in the United States, focusing on engineering filtration and advanced purification technologies,
- SimPure® promotes the philosophy of a minimalist lifestyle, returning to nature with clean water and fresh air.
- SimPure® designs products to be both smart, easy to operate, and practical in appearance and functionality.

Contact Us

If you require technical assistance, please contact our friendly professional support engineers, who will be pleased to assist you.

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Customer Service: service@simpurelife.com


Toll-Free :1-866-528-4572

Website: www.simpurelife.com

SimPure®
Stay Simple, Stay Pure

4530 B STREET NW #A,
AUBURN WA 98001, USA

Documents / Resources

	<p>SimPure T1-400 UV Tankless Under Sink Reverse Osmosis System [pdf] User Manual</p> <p>T1-400 UV Tankless Under Sink Reverse Osmosis System, T1-400 UV, Tankless Under Sink Reverse Osmosis System, Sink Reverse Osmosis System, Reverse Osmosis System, Osmosis System</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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