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# Echo RO™ Manual

## Echo RO

## User Manual





## SAFETY INSTRUCTIONS

Please be sure to follow these instructions to prevent electric shock, fire, or explosion which could result in personal injury or product damage

### ALWAYS REMEMBER

- To use a surge protector or warranty is voided
- To only use the provided power supply
  - Only use the power adapter that came with the Echo RO
- To only use manufacturer-certified replacement parts and charging cables.
  - Replace Cartridges according to the filter life indicator

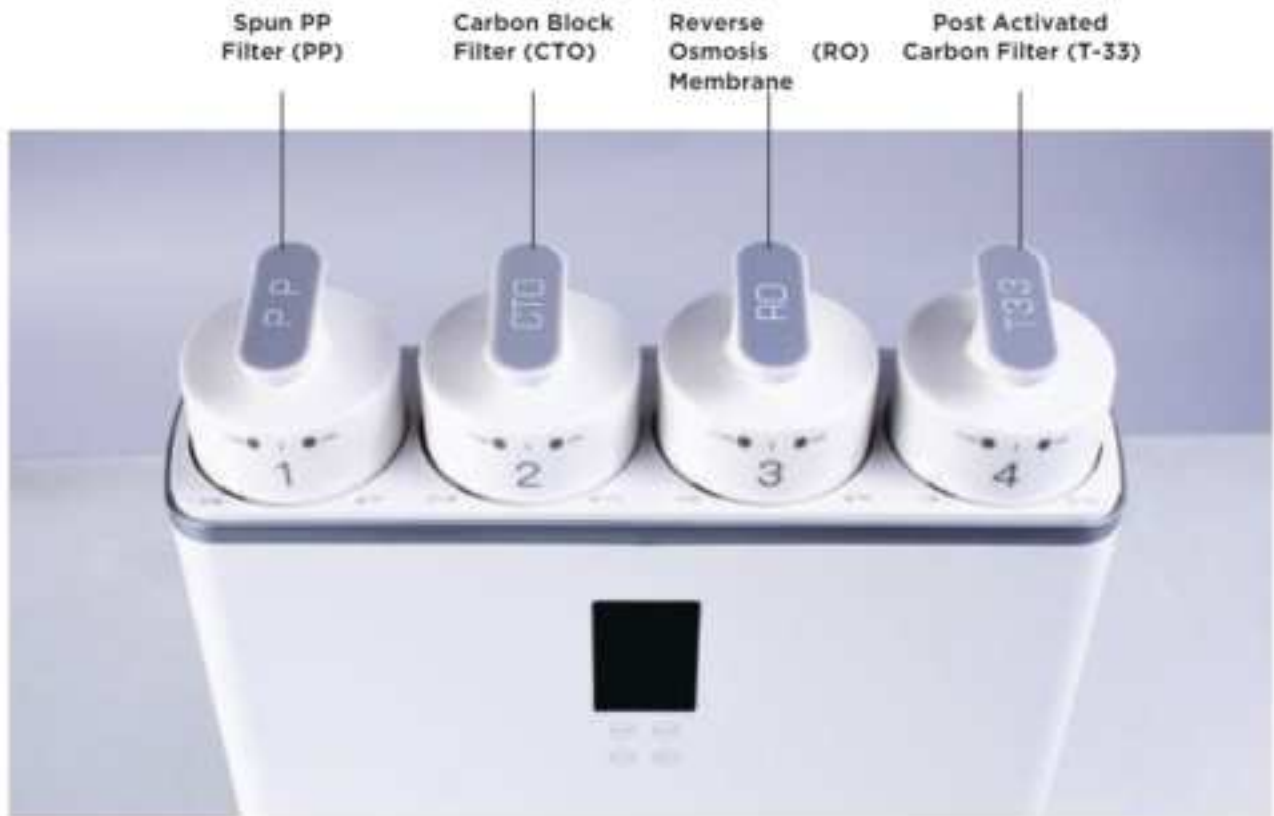
- When changing filter cartridges, shut off source water and release water pressure by opening the faucet
- Unplug the power adapter and turn off the source water valve for long term storage
- Do not store or use in an environment of 0 degrees C/32 degrees F or below
- Handle with care when moving or uninstalling
- When the Echo RO is not going to be in use for an extended period of time (overnight, when user is on vacation, etc) turn off the source water T-valve to avoid a pressure surge that may cause leaks or damage to housings and filters. Echo Technologies is not responsible for damage caused by this phenomenon
- If issues occur, turn off the power and source water. Check the troubleshooting guide (below) and contact Customer Experience for further assistance.

## **ECHO RO™ PACKAGE CONTENTS**

### Echo RO™ Filter Cartridges

- Spun PP Filter (PP)
- Carbon Block Filter (CTO)
- Reverse Osmosis (RO)

- Membrane Post Activated Carbon Filter (T-33)



## Echo RO™ Accessory Box

3/8 in. T-Valve

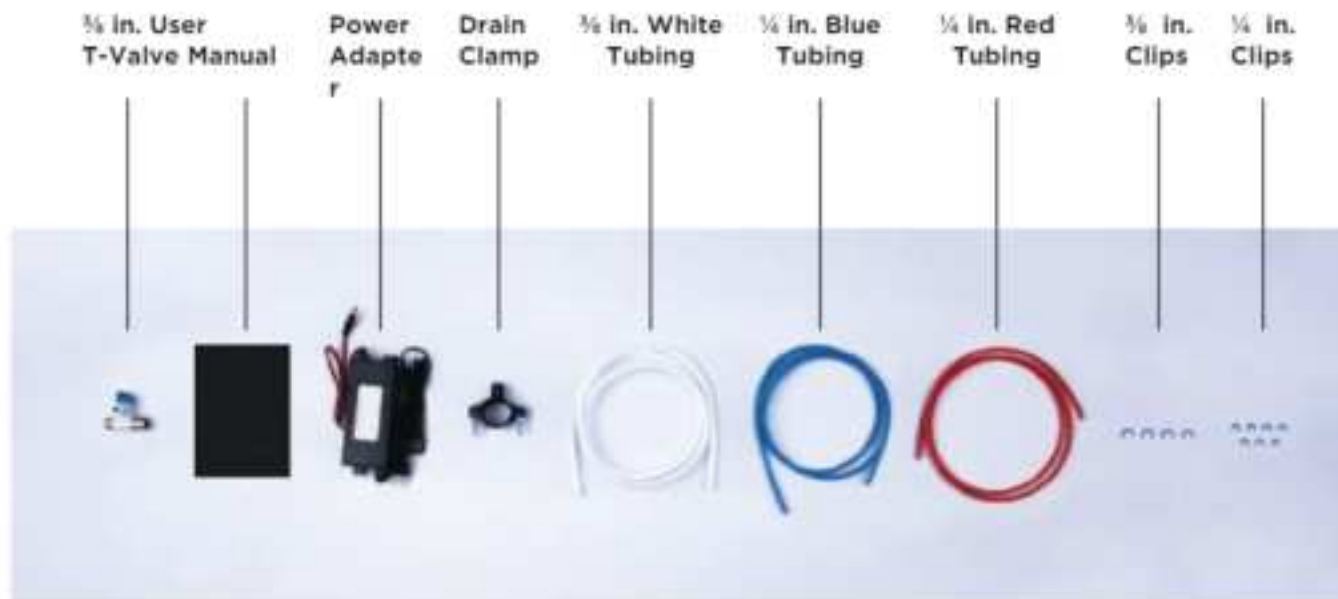
User Manual

SMPS 24V4A Power Adapter with a non-grounded American plug Drain Clamp with 1/4 in. Quick Connect Tubing

- 5 ft. of white 3/8 in. Tubing
- 5 ft. of blue 1/4 in. Tubing
- 5 ft. of red 1/4 in. Tubing

Quick Connect Locking Clips

- 3/8 in. clips x 2
- 1/4 in. clips x 7



# HOW TO INSTALL THE ECHO RO™ SYSTEM

## Install T-Valve and Source Water Valve



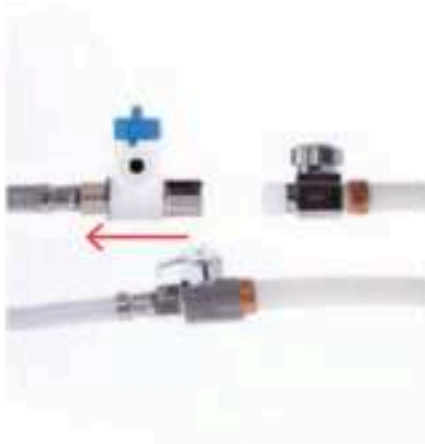
1. Shut off the cold water valve.



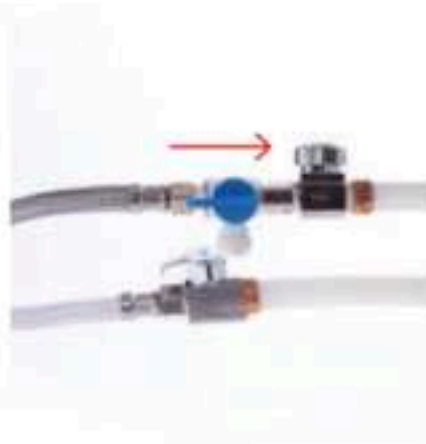
2. Detach the cold waterline from the cold water valve.



3. Wrap threads of the Source Water Valve and T-Valve with Teflon tape if needed.



4. Install the T-Valve onto the cold water valve.



5. Attach the cold Tubing from the Echo RO™.



6. Insert the white  $\frac{3}{8}$ " waterline to the T-Valve.

### NOTE

Softened source water will extend the life of the RO Membrane.

### WARNING

**DO NOT** connect to Hot Water line. This will damage your Echo RO™.

\*Plugs are installed onto RO inlet connectors, please remove prior to installation.

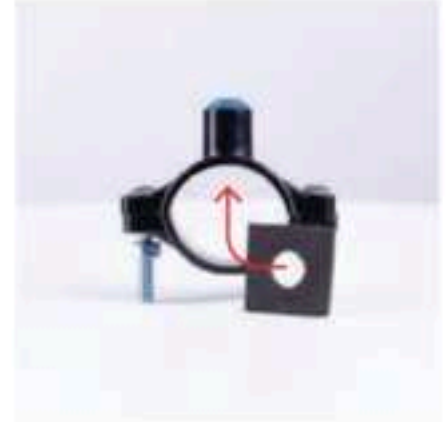
# INSTALL DRAIN CLAMP



1. Remove the 3 plugs from the **elbow** connections on the back of the Echo RO™



2. Choose where the drain clamp will be installed and drill a 1/4 inch. hole. The foam padding to the inside of the Drain clamp, around the hole.



3. Find your foam pad. Remove the circular cut out. Apply the sticky part of the foam padding to the inside of the drain clamp, around the hole.

## WARNING

**DO NOT** drill through both sides of the rain pipe.



4. Apply the drain clamp to the drain pipe using the included nuts and bolts.



5. Push the red Tubing into the 1/4 in. hole and secure with a Locking Clip.



6. Push the red Tubing into the elbow on the back of the Echo RO™ and secure Tubing with a Locking Clip.



## HOW TO INSTALL THE ECHO RO™ SYSTEM

Please see Echo RO Faucet™ installation guide included in the Echo RO Faucet™ box.

### Final Steps



1. Reopen the cold water valve.



2. Turn the T-Valve switch so that it lines up with the Tubing.

### CAUTION

Cut the Tubing cleanly to avoid a poor connection and leaks. The lowest point of the line should be the point of connection to the Drain Clamp. To avoid excess noise as the drain water is flowing to drain, make sure there is no sag in the line.

# FIRST-USE INSTRUCTIONS



1. Connect the Echo RO™ to the Power Adapter and Surge Protector. When the Echo RO™ is powered on, the Echo RO™ beeps 3 times, flushes for 90 seconds, and the Flush Icon flashes.



2. Flush the Filter for 3 to 5 minutes by turning on the Echo RO faucet™ and letting the water run.



3. Turn the Echo RO™ on.



4. All icons turn on and the Echo RO™ goes into standby mode when the Echo RO™ is pressurized. The Echo RO™ is now ready to be used.

## WARNING

**IF A SURGE PROTECTOR IS NOT USED YOUR WARRANTY WILL BE VOIDED.**

When in use, the Echo RO™ begins dispensing water and the display shows a real-time count of Total Dissolved Solids (TDS) in parts per million (PPM) before and after filtration. The display also shows the Filter Life Indicator and the Power indicator light.

## NOTE

It is normal to hear vibration sounds when the Echo RO™ is producing water.



# FILTER CARTRIDGE REPLACEMENT

## Filter Reminders

There are 6 lighted rectangles on the display representing the lifespan of each Filter. The lights will extinguish one at a time as the Filter is used. When no rectangles are lit, the Filter’s lifespan is over.

## Recommended Replacement Period for Filter Cartridges

| STAGES | FILTER CARTRIDGE             | FUNCTION  | LIFESPAN     |
|--------|------------------------------|---|--------------|
| 1      | Spun PP Filter               | Removes larger particles suspended in water.                                      | 3-6 months   |
| 2      | Carbon Block Filter          | Removes organics, chlorine, odor, and turbidity.                                  | 3-6 months   |
| 3      | RO Membrane                  | Removes bacteria, heavy metals, dissolved matter, and salinity.                   | 12-24 months |
| 4      | Post Activated Carbon Filter | Removes residual chlorine and odor. It also improves the taste of purified water. | 3-6 months   |

### NOTE

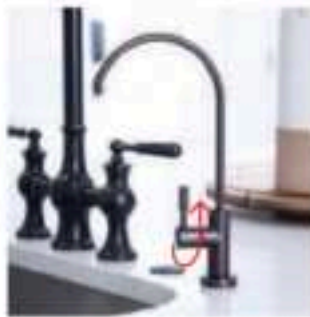
Filter lifespan is influenced by water quality and daily water consumption, so Filter replacement intervals may vary.  
Replace as appropriate based on the Filter Life Indicator.



# HOW TO REPLACE CARTRIDGES



1. Turn off the water and drain the water from the Echo RO™ to depressurize it.



## Option 1

Turn off the source water and manually flush the pressure by turning on the Echo RO Faucet™. If you do this without turning off the power, the system will chime 10 times to indicate low pressure until you turn the water back on.



## Option 2

Manually flush the Echo RO™ by pressing the Power button to wake the display. Then hold the Flush button for about 3 seconds. The Echo RO™ will flush for a few seconds.



3. Unplug the Echo RO™.





4. Open the lid.



5. Hold the Cartridge handle and rotate 90° counterclockwise, then pull it out.



6. Replace it with the new Cartridge.

Align the arrow label to  and rotate 90° clockwise to .



7. Cover the Cartridges with the lid.

## FILTER RESET AFTER REPLACEMENT



1. Press Select for 3 seconds to enter selection mode.



2. Keep tapping Select until the correct Filter is selected.



3. Press the Reset button. The Filter Life Indicator rectangles will be lit again.

### NOTE

Selection mode will exit automatically if there is no operation for 5 seconds.



## TROUBLESHOOTING GUIDE

| ISSUE   | CAUSE  | SOLUTION   |
|---|--|--|
| Water pump is out of service and the Echo RO™ does not dispense water.                                    | Insufficient source water pressure.  | Increase source water pressure.  |
|   | No power or power failure.   | Check for the light on the Power Adapter. If there is no light and the Echo RO™ is plugged in and the outlet is working properly, contact Customer Experience for further troubleshooting. |
| High final TDS value (in PPM) on display.   | TDS of source water is too high or Echo RO™ has not been used for a long time. | Turn on the Echo RO Faucet™ to run water through the machine for 1 to 2 minutes.   |
|   | Cartridge lifespan is over.  | Replace Cartridge.   |
| Water pump works but Echo RO™ does not work.  | RO Membrane is blocked.  | Replace RO Membrane.   |
| Constantly running water in downtime.   |  | Contact Customer Experience.   |
| Low Water Pressure icon flashes and the Echo RO™ beeps 10 times.  | Insufficient source water or low water pressure.                               | Double check connection to machine and that the cold water valve is open. Contact Customer Experience for further troubleshooting.   |
| The Echo RO™ stops dispensing water and issues an alert. All icons flash and the Echo RO™ beeps 30 times. | Water leakage.   | Double check connection to machine and that the cold water valve is open. Contact Customer Experience for further troubleshooting.   |





# PRODUCT SPECIFICATIONS

**Source-water quality:** Portable Water

**Voltage and frequency:**

100-240V, 50/60Hz

**Power input:** 96W

**Purified water flow:** 1.2 L/min.

**Source water connection:**

Cold Waterline

**Electric shock resistance:** Type II

**Source-water TDS:** The higher the TDS, the sooner the Filter will need to be replaced.

**Source-water chlorine level:** The higher the chlorine level, the sooner the Carbon Block Filter will need to be replaced.

**Rejection rate:** 90% to 99%

**Source-water pressure:** 0.1 to 0.04 MPa

## SAFETY PRECAUTIONS

- Replace Cartridges according to the Filter Life Indicator.
- Only use the Power Adapter that came with the Echo RO™.
- Always use **Surge Protector** or Warranty is Voided.
- Unplug the Power Adapter and turn off the Source Water Valve for longterm storage.
- Do Not store or use in an environment or 0°C/32°F or below.
- Handle with care when moving or uninstalling.
- When the Echo RO™ is not going to be in use for an extended period of time (overnight, when user is on vacation, etc.), turn off the Source Water T-Valve to avoid a pressure surge that may cause leaks or damage to housings and Filters. Echo Technologies™ is not responsible for damage caused by this phenomenon.
- If issues occur, turn off the power and source water. Check Troubleshooting Guide and contact Customer Experience for further assistance.

### WARNING

Incorrect installation and/or operation could void your warranty. Please protect your investment! READ THIS MANUAL CAREFULLY.

## How to Install the Echo RO and Server



Related to:

Echo RO(Reverse Osmosis) Machine

## Attachments

 Echo RO™Manual.pdf.pdf

(1 MB)

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[Echo RO Warranty Guide](#)

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[How to Install O-rings on Your Reverse Osmosis Machine](#)

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