



Installation Instructions

Model SZ-RO-4

Reverse Osmosis System

Safety Zone Water Reverse Osmosis Drinking Water System Model SZ-RO-4 Installation Instructions

Components

- RO manifold
- Pre-filter for sediment
- Pre-filter, carbon
- RO membrane
- Post filter, Granular Activated Carbon
- Tubing
- Saddle valve for waste water
- Flow restrictor (goes on drain line)
- Storage tank shut-off valve
- Angle stop valve for feed water (1/4")
- Quick connect faucet adapter (connects tubing to the faucet)



Typical Under Sink Installation

Optional

Faucet (chrome or brushed nickel). Be sure to use Teflon tape on metal threads.

IMPORTANT

Use a tube cutter to cut tubing at right angles. This is essential, using "quick connect" fittings!

Installation overview

Step Requirements

First: Shut off flow to cold water line

- 1 Install manifold in your cabinet below the kitchen sink
- 2 Install dedicated faucet by kitchen sink. (9/16" hole for non-air gap faucet.)
- 3 Install angle stop valve on the cold water line for feed water.
(Use Teflon tape on threaded connections)
- 4 Install saddle valve for waste water on the sink's drain pipe.
Note: Place saddle valve on horizontal pipe if garbage disposal is used.
- 5 Install cartridges in proper order
- 6 Install tank shut off valve on storage tank (be sure to use Teflon tape).

Tube connections

| Color | Connect from | Connect to |
|--------|-------------------------|---------------------------------------|
| Orange | Angle stop valve | Manifold to "feed water" fitting |
| Black | Saddle valve under sink | Manifold to "drain" for waste water |
| Yellow | Storage tank | Manifold to "to storage tank" fitting |
| Blue | Faucet | Manifold to "to faucet" fitting |



Note: The flow restrictor must be installed in the black “waste water” line. This is an essential component to direct water through the membrane.

Safety Zone Water Reverse Osmosis Drinking Water System Start-Up Procedures

Start up procedures

Check system to verify all components are correctly installed.

Slowly open inlet valve on the angle stop valve.

Slowly open tank shut-off valve on the storage tank.

Check system thoroughly for leaks. If any leaks are found, shut off both inlet and tank valves and correct the issue.

You will hear the water running to drain while the unit is running. Once the water stops running the tank is full.

Note: Water literally trickles through the membrane, so do not open the faucet until tank is full.

It may take two hours or longer to fill the tank. (The tank is full when no water is running to drain.)

Once the tank is full, open the faucet to flush the system. (If you see black carbon fines in the water, this is normal.) Let the tank empty.

When the tank is empty, shut off the faucet and allow the tank to refill one more time.

When the tank is full, open faucet to empty the tank a second time.

When the tank is empty, shut off faucet and allow tank to refill.

After two flushings, the system is fully operational and the water is safe to drink.

For questions, contact your authorized Safety Zone Water™ dealer.

You may also call Safety Zone Water Systems, LLC at 352-492-9516.

Dedicated faucet

Mount the dedicated faucet next to the sink. Two types are available: Non-Air Gap and Air Gap. Both faucets are available in chrome and brushed nickel. Be sure to select the faucet needed for your installation.



Specifications

Safety Zone Water™ Reverse Osmosis Systems

General

| | |
|-----------------------|--|
| Daily production rate | 50 GPM |
| Typical flow sequence | Sediment cartridge Pre-Carbon block cartridge RO membrane cartridge Storage tank Post GAC carbon cartridge Dedicated faucet |

Cartridge specifications

| | |
|--------------------------|--------------------------------|
| Sediment | Five micron spun polypropylene |
| Pre-carbon | Five micron carbon block |
| Reverse osmosis membrane | Thin film composite |
| Post-carbon | Granular activated carbon |

Storage tank (included) Metal – Capacity 3.2 gals.

Faucet options (additional)
 Chrome, non-air gap
 Brushed nickel, non-air gap
 Chrome, air gap
 Brushed nickel, air gap

Replacement cartridges

| Cartridge | Use (Removal) | Capacity (Gals.) TDS Reduction | Flow Rate (GPM) | Rated Life (Average Use) | Rated Life (Heavy Use) |
|-------------|------------------------|-----------------------------------|-----------------|--------------------------|------------------------|
| Sediment | Sediment, particulate | 2,500 | 0.5 | 12 mos. | 6 mos. |
| Pre-carbon | Chlorine, chemicals | 2,500 | 0.5 | 12 mos. | 6 mos. |
| Membrane | Total dissolved solids | 90%-95% reduction | n/a | 3 yrs. | 2 yrs. |
| Post-carbon | Taste & odors | 2,500 | 0.5 | 12 mos. | 6 mos. |

Note: Capacities are based on local water conditions, degree of pre-filtration and use.

Other Specifications

| | |
|------------------|------------|
| Working pressure | 40-125 psi |
| Temperature | 39°F-100°F |
| pH | 5-10 |
| Turbidity | <1.0 NTU |
| Hardness | <300 ppm |
| Chlorine | 0-3 ppm |

Removes / Reduces

- Harmful chemicals
- VOCs, PFOS, PFOA
- Trihalomethanes
- Bacteria
- Cysts
- Viruses
- Chlorine
- Taste & odors
- Lead
- Mercury
- Fluoride
- Sodium
- Pharmaceuticals
- Arsenic
- Nitrates
- And more!

Limited Five Year Warranty

Safety Zone Water Reverse Osmosis systems come with a five (5) year limited warranty. Filter elements and membranes come with a quality guarantee only. See warranty card for full details. For assistance call 352-492-9516.