ZENITH PURE SOLUTIONS

OWNER'S MANUAL

Zenith Guardian RO800

Smart tankless reverse osmosis

800 GPD · 3 cartridges, 9 layers of filtration
Alkaline mineral postfilter · Live TDS display



Zenith Pure Solutions

6951 E 30th St, Suite B, Indianapolis, IN 46219
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KEEP THIS MANUAL
NEAR YOUR SYSTEM

01 Welcome

Thank you for choosing Zenith Pure Solutions. Your Zenith Guardian RO800 makes purified drinking and cooking water on demand at its own kitchen faucet, then adds back minerals for a clean, crisp taste.

Keep this manual near the system. Your installer records your system details on the last page. It explains what your system does, routine care, and what to do if something seems wrong.

Need help? Call us before you open the system.

Most questions are answered in one phone call, and work done by others can affect your warranty.

Zenith Pure Solutions

Phone	(317) 690-4172
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Website	zenithpuresolutions.com
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Hours	Monday to Friday, 9 am to 6 pm

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02 Important safety information

Your system works best, and stays under warranty, when it runs inside the limits below.

- **Cold water only.** The system connects to the cold water supply under the sink. Never connect it to a hot water line.
- **Protect from freezing and sunlight.** Keep the system indoors, out of direct sunlight and never below freezing.
- **Power.** Plug the adapter into an unswitched outlet under the sink. Never use the garbage disposal outlet.
- **Keep the drain clear.** If the drain line or sink drain is blocked, unplug the system until it is cleared, so waste water cannot overflow.
- **Open the faucet fully** when drawing water. A part-open faucet can make the system work incorrectly.
- **Check for leaks.** Look over the tubing and fittings now and then. Never pull a tube out of a fitting.
- **Leave service to us.** Zenith changes the cartridges and services the system. Do not open the unit.
- **Cleaning.** Wipe the unit and faucet with a soft, damp cloth. Never spray water on the unit or use abrasive cleaners.

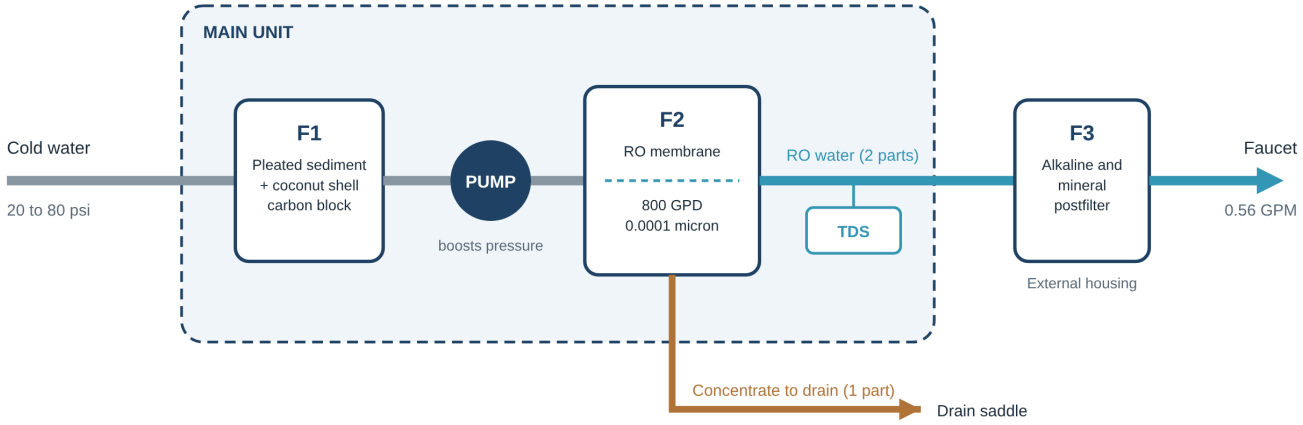
Operating conditions

Condition	Limit
Water source	Municipal (treated) water
Water pressure	20 to 80 psi (a pressure reducing valve is fitted above 80 psi)
Water temperature	39 °F to 100 °F, cold water only
Location	Indoors, under the sink; out of direct sunlight; never below freezing
Power	110 to 240 V AC, 50/60 Hz, 120 W; unswitched outlet

This system is not intended to be used to treat water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

03 How your system works

Water passes through three cartridges with nine layers of filtration. A built-in pump pushes it through the reverse osmosis membrane, and a mineral postfilter finishes it before it reaches your faucet. There is no storage tank: water is made fresh when you open the faucet.



How water moves through the Guardian RO800. F1 and F2 sit inside the main unit; F3 is in its own housing beside it.

Stage	Cartridge	What it does
F1	Sediment and carbon prefilter (2 in 1)	Pleated sediment media and a coconut shell carbon block help reduce sand, silt, rust, chlorine, taste and odor, and protect the membrane.
F2	Reverse osmosis membrane, 800 GPD	Thin film membrane rated to 0.0001 micron. Helps reduce dissolved solids.
F3	Alkaline and mineral postfilter	Polishes the taste, adds minerals and raises the pH slightly (weakly alkaline).

What it helps reduce

Based on the cartridge labels and the manufacturer's third-party laboratory testing against NSF/ANSI 42, 53 and 58, the system helps reduce PFAS (PFOA, PFOS), lead, arsenic, fluoride, chlorine, chloramine, VOCs, cysts, copper, total dissolved solids and limescale. These are tested claims, not certified system performance. Testing was performed under standard laboratory conditions; actual performance may vary.

Certification

The system is certified by IAPMO R&T to NSF 372 for lead-free construction. Its key components are certified: the carbon block to NSF/ANSI 42 and 53, and the RO membrane to NSF/ANSI 58 and NSF/ANSI/CAN 61.

The system treats water at its own drinking faucet only. It does not treat the rest of your home's water, hot water, or hardness at other fixtures.

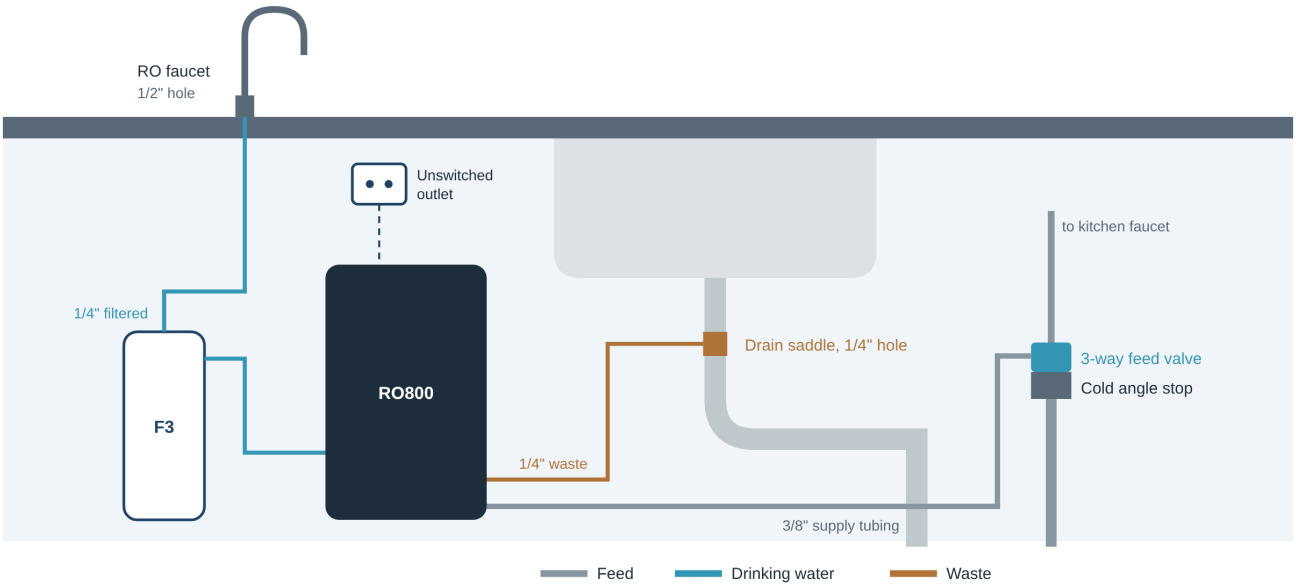
04 Your system at a glance

Your Guardian RO800 has a main unit and an F3 postfilter under the sink, and a stainless steel drinking faucet on the counter.



F3 postfilter (left) and main unit (right)

Part	What it does
Main unit	Holds F1, F2, the pump, the TDS sensor and the control panel.
F3 postfilter	External housing between the unit and the faucet.
Drinking faucet	SUS304 stainless steel, brushed finish.
3-way feed valve	Takes cold water from the angle stop under the sink.
Drain saddle	Carries concentrate (waste water) to the sink drain.
Power adapter	Plugs into an unswitched outlet under the sink.



Typical under-sink installation.

05 Specifications

A compact tankless unit that fits under most kitchen sinks.

Specification	Guardian RO800
Daily production rate	800 gallons
Faucet flow	0.56 gpm
Pure to drain ratio	2:1 (two parts drinking water for every one part to drain)
Filtration	3 cartridges, 9 layers of filtration; membrane rated 0.0001 micron
Feed water pressure	20 to 80 psi
Water temperature	39 °F to 100 °F
Electrical	110 to 240 V AC, 50/60 Hz, 120 W
Main unit size	14.7″ L × 5.3″ W × 15.5″ H
F3 postfilter size	5″ × 5″ × 13.5″ H
Faucet	SUS304 stainless steel; 1/2″ mounting hole; for countertops up to 1.5″ thick
Model	ZPS-RO800 with ZPS-H3 postfilter assembly

Softened water going into the system helps the membrane last longer. Ask us about pairing your RO800 with a Zenith softener.

06 Using the control panel

The front panel shows the water quality and the life of F1 and F2. It has two buttons, **Reset** and **Flush**.

Display	What it means
OUT TDS	Total dissolved solids of the purified water, in ppm, measured before F3 every minute while water is being made.
CP light	Life of F1, the sediment and carbon prefilter.
RO light	Life of F2, the RO membrane.
Power light	Flashes blue while water is being made or the system is flushing.



Front panel

Filter life lights (CP and RO)

Light	Status	What to do
Solid white	Cartridge working normally	Nothing.
Flashing red	Less than 5% of cartridge life left	Call Zenith to schedule a change.
Solid red, buzzer while making water	Cartridge life ended	Call Zenith to change the cartridge.

The panel tracks F1 and F2 only. F3 is outside the unit and is changed on the service schedule. Zenith resets the filter life after each cartridge change.

Flushing

The system flushes itself for 30 seconds when it is powered on, and briefly after every 10 minutes of water production. To flush by hand, press **Flush** while the system is idle; press it again to stop.

Protection stops

Long run protection: after 30 minutes of continuous water production the system stops and the lights flash red. Unplug it for 10 seconds, then plug it back in. **Leak detection:** if a light shows or flashes red and the buzzer sounds outside these cases, the system may have detected a leak. Unplug it, close the feed valve and call Zenith.

07 Everyday use

Open the drinking faucet fully and the system starts making water within seconds. Close it and the system stops.

You notice	Why	What to do
White, cloudy bubbles in the first glass	Air released by the pump pressure	Nothing. They clear when the glass stands.
TDS reading high when you start drawing water	Normal while the pump is idle	The reading settles after about 1 minute of production.
A handheld TDS meter reads higher than the display	F3 adds 10 to 30 ppm of minerals after the sensor	Normal.
Higher pH after the system has stood unused	Mineral postfilter	Normal. The pH can go above 9 after standing; run the faucet briefly.

When the system has not been used

Not used for	What to do
More than 2 days	Run the faucet for at least 5 minutes before drinking.
More than 1 week	Run the faucet for at least 10 minutes before drinking.
A long time away	Close the feed valve, unplug the unit and open the faucet to release the pressure. Call us when you return if you are unsure.

08 Cartridges and service

Zenith visits once a year to change the cartridges and check the system.

Cartridge	Zenith change interval	Manufacturer rating
F1 sediment and carbon prefilter	Every year	1 year or 60 hours of production (about 900 to 1,000 gal)
F2 RO membrane	Every 2 years	2 years or 120 hours of production (about 1,800 to 2,000 gal)
F3 alkaline and mineral postfilter	Every year	12 months (about 900 to 1,000 gal)

Year 1 visit: F1 and F3 replaced, inspection and performance check. **Year 2 visit:** F1, F2 and F3 replaced, sanitization, inspection and performance check.

We send a cartridge alert 45 days before a change and a reminder 14 days before each visit. The yearly Zenith service is required to keep your parts warranty.

09 Troubleshooting

Anything marked **Call Zenith** needs a technician.

What you notice	Likely cause	What to do
No water at the faucet	No power, or the angle stop or feed valve is closed	Check the adapter is plugged into an unswitched outlet and the valves are open.
	Cartridge life ended (solid red light)	**Call Zenith.**
Low flow	Cartridge blocked or expired, low water pressure, or kinked tubing	Check the tubing under the sink is not bent. **Call Zenith.**
Water tastes or smells off	System unused for more than 2 days, or a cartridge expired	Run the faucet 5 minutes. If it continues, call Zenith.
Lights flash red, system stopped	Long run protection after 30 minutes	Unplug for 10 seconds, then plug back in.
Red light and buzzer	Possible leak detected	Unplug, close the feed valve, check for water. **Call Zenith.**
System keeps running after the faucet is closed	Water supply cut off, or a cartridge or connection problem	Unplug until the water supply is back. If it continues, **Call Zenith.**
No power after plugging in	Plugged into the garbage disposal outlet	Use an unswitched outlet.
Leak under the sink	Tubing not fully inserted, or an o-ring or part damaged	Unplug and close the feed valve. **Call Zenith.**

10 Zenith limited warranty

2 yr **2 years parts · 2 years labor**
Labor when installed by Zenith. Filter cartridges are consumables and not covered.

What is covered

If a part of your system fails because of a defect in materials or workmanship during the warranty period, Zenith will repair or replace it.

Keeping your warranty

Cover applies when Zenith installs the system and it is serviced to schedule. Ongoing maintenance and a yearly Zenith service are required to keep the parts warranty.

If you sell your home

The warranty transfers at the original address only, for the remaining term, with written notice to Zenith within 30 days of the sale. Labor coverage transfers only if the new owner takes a Zenith maintenance plan. The warranty does not follow a system that is moved to another address.

What is not covered

- Misuse, modification, unauthorized repair or improper installation.
- Freezing, hot water above 100 °F, or installation outdoors or in direct sunlight.
- Damage from fire, flood, lightning or other acts of nature.
- Filter cartridges, which are consumables.
- Commercial or other non-residential use.

Making a claim

Call Zenith at (317) 690-4172 or email info@zenithpuresolutions.com as soon as you notice a problem. Have your name, address, installation date and system details ready (see *Your system record*).

This is a plain-language summary. The full Limited Warranty terms are in your quote and invoice.

11 Your system and service record

Your system record

Your installer fills this in on installation day. Have it ready when you call us.

Item	Your system
Model	Zenith Guardian RO800 (ZPS-RO800) with ZPS-H3 postfilter
Installation date	
Installed by	
Feed water TDS at installation (ppm)	
Purified water TDS at installation (ppm)	
Next F1/F3 change due	
Next F2 change due	

Service log

Keep a record of every service visit and media or cartridge change. It helps our technicians and supports any warranty claim.

Date	Service performed	Cartridges changed	Technician
	Installation and start-up		

ZENITH
PURE SOLUTIONS

We are here when you need us.

Service, salt delivery, care plans and free in-home water testing across the Indianapolis area.

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