41 E. Airway Blvd., Livermore, CA 94550
Toll Free **888-888-1763**
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Commercial Tankless Reverse Osmosis Filtration System

Part No. RO-500 | 500 GPD Output | 1.5:1 Pure-to-Drain Ratio | Booster-Pump Assisted

The Shelf Life Inc RO-500 is a high-output, tankless reverse osmosis filtration system engineered for light-duty commercial and industrial equipment use — restaurants, cafés, offices, and small businesses that need a steady, high-volume supply of great-tasting purified water on demand. A 5-stage filtration train and integrated booster pump deliver up to 500 gallons per day at a class-leading 1.5:1 pure-to-drain ratio, while removing chlorine, hardness, heavy metals, PFAS, and a long list of other water impurities.



Shelf Life Inc. RO-500 — Commercial Tankless Reverse Osmosis System

KEY FEATURES

- 500 GPD maximum daily production for high-volume, on-demand purified water
- 5-stage filtration removes chlorine, hardness, heavy metals, PFAS, and 1,000+ contaminants
- 1.5 : 1 pure-to-drain ratio — significantly more efficient than standard low-capacity RO systems
- Integrated booster pump maintains strong, consistent flow regardless of incoming water pressure
- Built-in pressure gauge and iron-bracket frame for easy wall or under-counter mounting
- Ideal for restaurants, cafés, offices, break rooms, and light-duty commercial and industrial facilities

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TECHNICAL SPECIFICATIONS

Specification	Value
Part No.	RO-500
Voltage	AC 110–240V, 50/60Hz
Power Rating	120W
Suitable Water Pressure	0.1–0.35 MPa (14.5–50.8 psi)
Operating Pressure	0.5–0.7 MPa (72.5–101.5 psi)
Average Operating Pressure	40–70 psi
Inlet Water Temperature	5–38°C (41–100°F)
Max. Inlet Water TDS	≤ 1000 ppm
Max. Daily Water Production	500 gallons (approx. 1,892 liters)
Rated Flow Rate	Up to 0.34 GPM
Pure-to-Drain Ratio	1.5 : 1
Electric Shock Protection	Class II
Suitable Water Quality	Municipal tap water meeting potable feed-water standards
Dimensions (W x D x H)	14.0" x 11.0" x 18.0"
Net Weight	20.5 lb

Note: Due to ongoing product improvements, specifications above may change without notice.

5-STAGE FILTRATION PROCESS

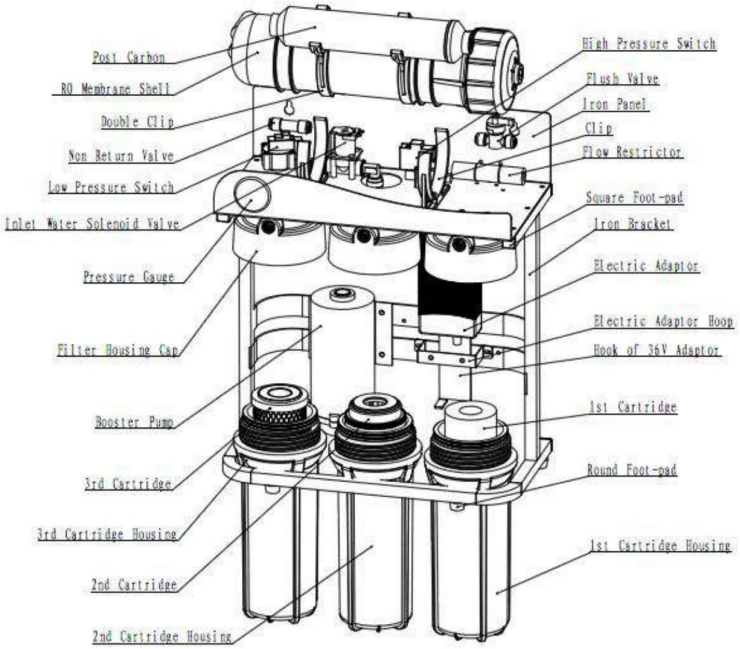
Stage	Filter Media	Function
1	PP Sediment (10", 5-micron)	Removes dirt, sand, rust, and larger sediment
2	GAC — Granular Activated Carbon	Reduces chlorine, taste, and odor
3	CTO Carbon Block	Removes fine sediment, chlorine, and VOCs ahead of the membrane
4	RO Membrane	Removes up to 99% of dissolved solids, heavy metals, PFAS, and other contaminants
5	Post-Carbon (Inline)	Final polishing stage for the best possible taste

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SYSTEM DIAGRAMS

Component Overview

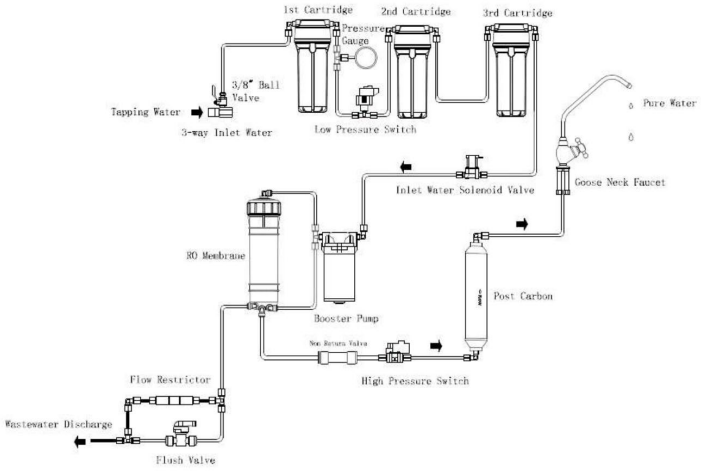
1. Blown-up profile of the water purifier



Blown-up profile of the RO-500 filtration assembly

Water Flow Path

3. Water route map



Water route from inlet supply through 5-stage filtration to the dispensing faucet

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OPTIONAL ACCESSORY: PRESSURIZED ACCUMULATOR TANK

For installations that benefit from reserve storage alongside the RO-500 system, Shelf Life Inc offers a matching pressurized accumulator tank (Part No. RO-TANK-04) built to the same quality standard. The tank buffers demand spikes and keeps purified water pressurized and ready at the tap.



Shelf Life Inc. RO-TANK-04 — 4-Gallon Pressurized Accumulator Tank

Specification	Value
Part No.	RO-TANK-04
Total Capacity	4 gallons
Usable (Drawdown) Capacity	3.2 gallons
Dimensions (L x W x H)	11.0" x 11.0" x 14.0"
Net Weight	8.1 lb
Max. Working Pressure	100 psi
Factory Pre-Charge	7–10 psi
Connection	1/4" NPT stainless steel valve thread
Construction	Coated steel body, FDA-listed food-grade liner, butyl diaphragm
Certification	Tested to NSF/ANSI 61 for drinking water system components
Orientation	Vertical or horizontal
Finish / Color	White

ORDERING INFORMATION

Part No.	Description
RO-500	Commercial Tankless Reverse Osmosis Filtration System, 500 GPD
RO-TANK-04	4-Gallon Pressurized Accumulator Tank (optional accessory)

For installation support, warranty information, or bulk/commercial ordering, contact Sales@ShelfLifeInc.com or call our toll-free line above.