

Reverse osmosis system quarterly maintenance checklist

A quarterly reverse osmosis system round is short on purpose: it catches the wear items that fail between annual services. This checklist is sized for a tech with a phone. Every item says what to look at and the photo that proves the round happened. Work is commonly verified against manufacturer's published instructions, IPC / UPC plumbing codes. Confirm the edition your authority having jurisdiction has adopted.

Who runs it: The water-treatment or plumbing tech on the quarterly round of the RO skid. When: Every quarter, since a loaded prefilter starves the pump and a fouling membrane both show up here before product quality falls off.

Prefiltration

- ☐ **Sediment prefilters checked and pressure drop noted**
Cartridge or housing condition checked, inlet-to-outlet pressure drop across the prefilters read and compared to a clean set. 2 photos required
- ☐ **Carbon stage condition and interval verified**
Carbon cartridge or bed within its service life, no channeling or bypass, dechlorination stage protecting the membrane confirmed in place. 1 photo required

Membrane performance

- ☐ **Operating and permeate pressures read at the gauges**
Feed, concentrate and permeate pressures read off the skid gauges and compared against the unit's normal operating range. 2 photos required
- ☐ **Permeate flow and product-quality reading observed**
Permeate flow and the product-quality meter observed and logged as displayed, trended against the last visit — the reading is recorded, not judged against an invented limit. 2 photos required

Pump and leaks

- ☐ **High-pressure pump running normally**
Pump holding pressure without cavitation noise, vibration or overheating, no cycling on a starved inlet. 1 photo required
- ☐ **Skid, housings and fittings checked for leaks**
No weeping at housing seals, membrane vessel end caps or fittings, no moisture tracking under the skid. 1 photo required