



# 5-Stage Reverse Osmosis Installation Guide



Brought to you by

The **WATER FILTRATION** Guys



## Welcome & Overview

Thank you for choosing our 5-Stage Reverse Osmosis (RO) water filtration system. This advanced water purification unit is designed using leading RO technology to produce exceptionally clean, safe, and great-tasting drinking water.

To ensure optimal performance, it's essential that the unit is installed, operated, and maintained correctly. We strongly recommend reading through this guide before beginning installation. Should you encounter any difficulties, please contact your dealer or technician for assistance.

## What's Included in the Box

- 1 × RO Main Unit
- 1 × Pressurised Storage Tank
- 1 × Accessories Pack (includes feed connector, tank valve, bracket, inserts & end caps)
- 1 × Goose-necked Faucet
- 1 × Housing
- 1 × User Manual

*Note: The RO membrane may be packaged separately and should be installed during setup.*

## How It Works: System Overview

This 5-stage RO system uses a combination of mechanical filtration and molecular separation to deliver pure drinking water:

1. **Stage 1 – 5 Micron Polypropylene (PP) Filter**  
Removes sediment, rust, and large particles.
2. **Stage 2 – Granular Activated Carbon (GAC)**  
Adsorbs chlorine, odours, and organic by-products.
3. **Stage 3 – Carbon Block Filter**  
Further improves taste and reduces residual chlorine.
4. **Stage 4 – Reverse Osmosis Membrane (0.0001 micron)**  
Eliminates dissolved solids, heavy metals, bacteria, and viruses.
5. **Stage 5 – Post Carbon Filter (Polishing)**  
Enhances taste and final purity before reaching your tap.

The system automatically filters and stores purified water in the tank, while flushing out contaminants via a drain line.



## Key Features

- Removes over 96% of harmful substances including heavy metals, chemicals, bacteria, and viruses
- No electricity required—runs on water pressure (min. 5 kg/cm<sup>2</sup> recommended)
- Regular flushing helps maintain membrane lifespan
- Oxygen-rich, great-tasting water that supports hydration and wellness

## Maintenance Tips

- Flush the membrane manually every few weeks to prevent clogging.
- Always turn off the tank valve before flushing, and re-open it afterward.
- Replace filters regularly based on water quality and usage.

Filter Type	Suggested Replacement Interval
5-micron PP Filter	Every 3–6 months
Granular Carbon Filter	Every 6–12 months
Carbon Block Filter	Every 6–12 months
RO Membrane	Every 18–24 months
Post Carbon Filter	Every 6–12 months

**Note:** Replace filters sooner if water taste worsens or flow drops noticeably (not due to cold temperatures). Always use a qualified technician for replacements.

## Installation Guidelines

*Important: Installation should be performed by a qualified technician.*

1. **Turn off the main water supply.**
2. Connect the feed water valve and adapter to your water source.
3. Drill a 12 mm hole in the waste pipe for the drain line.
4. Drill a 12 mm hole in your sink or countertop for the faucet.
5. Depending on the layout (under-sink or counter-mounted), drill appropriate 6 mm holes for tubing:
  - **Under-sink setup:** no holes required
  - **Countertop unit:** 3–4 holes for tubing access
6. Use silicone sealant around drilled holes to prevent leaks.
7. Install tank valve on storage tank and connect tubing accordingly.
8. Secure the RO unit and connect tubes using included inserts and fittings.



## First-Time Setup & Testing

1. Before proceeding, conduct a PRESSURE TEST on the holding tank (Empty 6-8psi – Full 30-40psi), which will insure correct operation of the system.
2. Open both the feed water valve and RO inlet valve.
3. Close the tank valve and open the faucet—wastewater should start draining.
4. Allow system to run for a few minutes to begin purification.
5. Once the tank fills, **flush and discard the first two full tanks** of water.
6. It's normal for dark water or high TDS readings to appear initially—keep flushing.

## Important Notices

- **Read this guide fully before use.**
- Do not install in high-humidity areas in the home.
- Turn off the system if not in use for extended periods.
- All plastic fittings should be checked regularly.
- Never reuse old hose sets—always use those supplied with the unit.
- Only professionals should replace filters or perform maintenance.
- Keep the unit out of children's reach and ensure supervision if needed.

## Safety Warnings

- This system is not intended for use by individuals with limited physical or mental ability without supervision.
- If any cables or components are damaged, contact your dealer or service provider for replacement.



**Contact us today for a free water consultation and quote.**



Clean water starts with a conversation.

**The WATER FILTRATION Guys**

[www.theXguys.co.za](http://www.theXguys.co.za)

