

Pentair GRO Reverse Osmosis

Clean, clear drinking water - with far less water down the drain

Reverse osmosis is the most effective way to improve drinking and cooking water at the tap. Your household water pressure forces water through a semi-permeable membrane: contaminants are rinsed to the drain, while clean water is stored in a sealed tank and delivered through a dedicated lead-free faucet at your sink. The Pentair GRO is a four-stage system, assembled in the USA, built around a high-recovery membrane that wastes far less water than a conventional reverse osmosis system.

What it does for your home

- **Removes the dissolved load.** The Pentair high-recovery membrane reduces 93-98% of dissolved minerals, salts and other contaminants in your water supply.
- **Wastes far less water.** The membrane runs at a 1:1 ratio - one litre of drinking water for one litre to the drain, a 50% recovery rate - so it sends far less water to the drain than a conventional system. A real plus on a limited water supply.
- **Better taste, no odours.** Carbon filtration reduces chlorine and chemicals, and a final post-carbon polish takes out any remaining tastes and odours before the tap.
- **Ready when you are.** Purified water is held in a sealed storage tank, so a glass, a kettle or a pot fills at full flow from the lead-free faucet - no waiting at the membrane.
- **Simple to own.** Upkeep is annual filter changes, with a membrane change when necessary. Push-fit John Guest fittings keep service quick and tidy.



Pentair GRO reverse osmosis system with sealed storage tank

Dissolved-solids reduction	93-98%
Recovery rate	50% (1:1 ratio)
Purification stages	4
Storage	Sealed tank
Faucet	Lead-free
Assembled in	USA

From 360WATER: Every recommendation starts with a free water test - hardness, TDS, iron and more - so we can confirm reverse osmosis is right for your drinking water before you spend anything. **12 months interest-free financing** is arranged in-house, with no third-party finance company.

Warranty: Your reverse osmosis system is covered for ten (10) years from the date of installation - reverse osmosis components and tanks. Consumables such as filters and membranes are not covered, and labour and service call charges are not included. Maintenance is simple: annual filter changes, and a membrane change when necessary. Your full warranty letter, with all terms, comes with your installation.

How it works - four-stage purification

Water passes through three filters and the high-recovery membrane before it reaches the storage tank - each stage has one job, from sediment to dissolved salts.

Stage	What it does
1 - Particulate filter (5 micron)	Removes dirt, sediment and sand, protecting the stages that follow.
2 - Activated carbon filter	Reduces chemicals, such as chlorine, that may be in your water supply.
3 - Pentair high-recovery membrane	The heart of the system. Reduces 93-98% of dissolved minerals, salts and other contaminants - at a 1:1 product-to-drain ratio (50% recovery).
4 - Post-carbon polishing filter	A final polish on the way to the faucet, removing remaining tastes and odours.

Membrane specifications

The GRO is an encapsulated element with a TLC (thin layer composite) membrane. Three sizes - we size the membrane to your home at the quote stage.

Membrane model	Nominal production	Nominal rejection	Drain flow control*
GRO-36EN	36 GPD (136 LPD)	96%	100 mL/min
GRO-50EN	50 GPD (189 LPD)	96%	150 mL/min
GRO-75EN	75 GPD (284 LPD)	96%	200 mL/min

Nominal performance: 500 ppm softened tap at 65 psi, 77 F (25 C), 50% recovery after 25 hours; individual output may vary by plus or minus 15%.

*Where fitted. Also available without drain flow control; permeate check valve included on most configurations.

Membrane details

Item	Specification
Membrane type	TLC thin layer composite, encapsulated
Cartridge size	15.14 in long x 2.50 in diameter

Operating limits

Limit	Value
Maximum pressure	125 psi (6.90 bar)
Maximum temperature	120 F (49 C)
pH range	4 - 11
Free chlorine	0.1 ppm maximum

Do not install membranes on microbiologically unsafe water supplies; performance can be affected by fluctuations in water quality.

Typical technical specifications

Typical figures for the system as installed (75 GPD membrane); element operating limits are above.

Item	Typical specification
Filtration capacity	75 gallons per day (GPD)
Contaminant rejection rate	95% to 99% reduction of total dissolved solids (TDS), lead, chlorine, fluoride and heavy metals
Feed water pressure	40 to 80 psi
Feed water temperature	40°F to 100°F (4°C to 38°C)
Maximum feed water TDS	Up to 2,500 ppm
pH range	Feed water typically 3.0 to 11.0; product water often balanced between 6.0 and 7.0
Storage tank capacity	Around 3.2 to 4 gallons total tank volume

Certifications

Pentair GRO systems and membranes are certified by NSF International to key drinking-water standards:

- **NSF/ANSI Standard 42:** aesthetic effects, including reduction of chlorine, taste, odour and particulates.
- **NSF/ANSI Standard 53:** health-related contaminants, including cysts (such as *Cryptosporidium* and *Giardia*) by mechanical means.
- **NSF/ANSI Standard 58:** reverse osmosis drinking water treatment systems, including total dissolved solids (TDS) and contaminant reduction performance, material and structural integrity. The GRO elements themselves (GRO-36EN, GRO-50EN, GRO-75EN) are certified to Standard 58 for materials and structural integrity.
- **NSF/ANSI/CAN 372:** low lead compliance (where applicable to system components).

Not sure reverse osmosis is right for your water? Bring a water sample by the showroom - testing is free. No obligation if the numbers say your water is already fine.

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Product information summarized from the Pentair GRO brochure and the Pentair GRO Membrane Spec Sheet (4002874 Rev F), with typical technical specifications supplied by 360WATER. Pentair and GRO are trademarks of Pentair. Details may change without notice; confirm at time of quote. Warranty shown is 360WATER Systems Inc.'s own warranty - see page 1.