



For More Information:

PUROPAL-1W H₂O Demineralizer Application, Installation, Operation Instructions

Application:

The **PUROPAL-1W** is designed for use in closed-loop heating or cooling systems that require demineralized fill water. To use, fill the system with local domestic water that has been passed through the **PUROPAL-1W** cartridge. This process removes dissolved minerals and salts, ensuring the water meets the quality standards recommended by glycol and boiler manufacturers.

The unit can also be used to **demineralize existing water-only systems** by circulating the system water through the **PUROPAL-1W** cartridge until the desired water quality is achieved.

Operation:

- The cartridge should only be **pressurized during system filling** and must be **monitored** during operation.
- The mixed-bed resin inside the cartridge removes minerals and salts from water as it flows through.
- The process operates **without the use of chemical additives or external power**.

Refer to **Figure 1** for the approximate demineralizing capacity relative to the total dissolved solids (TDS) of the water supply. For example, at a **TDS of 200 ppm**, the **PUROPAL-1W** can produce approximately **65 U.S. gallons (246 L)** of demineralized water. The cartridge is considered **spent** once the resin's color changes completely from **purple to yellow**.

Capacity: 65 gal (246 L) at 200ppm (12 gpg)

Max pressure: 150 psi (10.3 bar) briefly (Not for permanent connection)

Max flow rate: 1.5 GPM (5.7 L/min.)

Max water temp: 140 °F (60 °C) briefly

Installation:

- The **PUROPAL-1W** can be hooked up to domestic water using ½" NPT or ¾" GHT with the provided adapters.
- Replacement cartridges can be purchased separately (**PUROPAL-1W-RC**). **Figure 2** shows how to replace the spent cartridge.
- Ensure proper flow direction through **PUROPAL-1W**. Flow direction can be reversed. **Figure 3** shows how to reverse the flow direction when wall mounting.

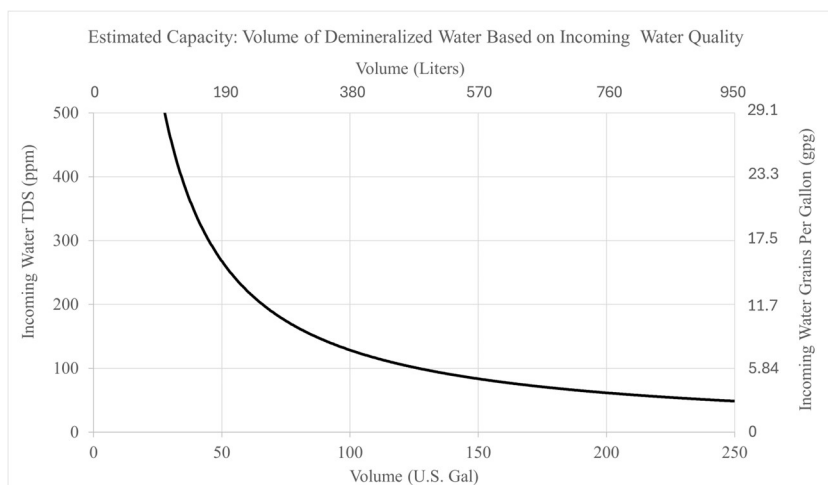


Figure 1 - Capacity of PUROPAL-1W based on incoming



Figure 2 - Replacing cartridge

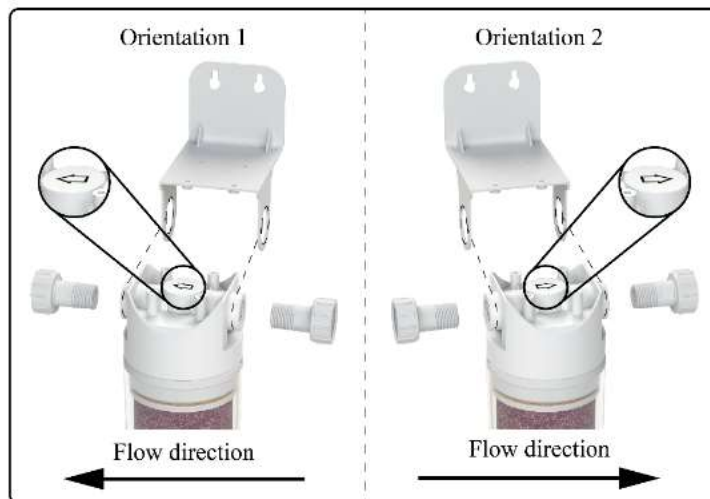


Figure 3 - Reversible mounting