

# Premiere PS-500 Installation Instructions

## PS-500 Ultrafiltration System Operating Conditions

|                       |  |
|-----------------------|--|
| Operating temperature | Min 40°F (4.4°C) / Max 100°F (37.8°C)  |
| Operating pressure    | Min 30 psi (2.11 kg/cm <sup>2</sup> ) / Max 85 psi (6.0 kg/cm <sup>2</sup> )<br>A pressure regulator is required for pressures over 75 psi   |
| pH parameters         | Min 6 / Max 10   |
| Flow rate             | 4 GPM @ 60 psi (dependent on water pressure and water temperature)   |
| Maintenance Schedule  | <b>Flush ultrafiltration (UF) membrane at least once per month.</b> Flushing the membrane more frequently may be required depending on your water conditions. Read more on page 3. <b>Replace UF membrane every 3 - 5 years.</b> |

## Pre-Installation Information

- This system installs on the incoming water line, and before any other water treatment such as a water softener or water heater.
- There three ports that require connection: inlet, outlet, and flush (membrane backflush).
- During the membrane backflush, approximately 1-2 gallons of water may be used. (Instructions for how to backflush the membrane are on page 2). Therefore this system should be installed in a location so that the water from this drains into a bucket, or you can plumb the flush port for irrigation use.
- Please ensure this system is covered and protected - avoid direct sunlight, freezing temperatures, etc.. Don't install it where it could experience any rough contact.
- Leave at least 3" below the housing so that you can easily unscrew the filter housing and replace the membrane when it's time.
- A pressure regulator (not included) is required for pressures over 75 psi. They are available at most home improvement stores. A pressure regulator is installed before water comes into this system.



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## Installing the PS-500 Ultrafiltration System

Locate the three double o-ring fittings and insert each of these fittings into the inlet, outlet, and flush ports on the system. Push the fitting in until it comes to a secure stop in the port.

There are three metal clips included - one metal clip per fitting. Put a clip into the two holes above where you just installed the double o-ring fitting. The clip drops down to secure the fitting. You may need to gently wiggle or slightly tap the clip. Make sure the clip is flat against the filter head.

If you have not done so already, shut off the main water supply. Relieve pressure in the line by turning on a cold water tap/faucet downstream of where the system is to be installed.

This system has three ports that require connection: inlet, outlet, and flush (membrane backflush).

Install check valve in line after the inlet shut-off valve and before the PS-500 system. The check valve prevents back flow of water when the system goes in to the backflush mode, ensuring the rinse water goes to drain.

Install the PVC ball valve on the outlet side.

Install the other PVC ball valve on flush fitting.

Slowly turn back on the main water supply. Check all the connections on the PS-500 and these connections to your hose or plumbing to ensure that there are no leaks.

Open a cold water tap/faucet downstream of where the system is installed. Continue to leave open until any air sputtering stops and that water is running clear, then turn off the tap/faucet. This may take up to 10 minutes.

Check all the connections again to make sure there are no leaks.

## Important Maintenance Information

### How to Flush the PS-500 System

Leave incoming water on. Close the outlet valve on the system and open the flush valve on the ultrafiltration membrane housing. Leave open for about 20 seconds. This will release about 1 - 2 gallons of water out of the flush port.

### When to Flush the PS-500 System

The ultrafiltration membrane should be flushed on a regular basis for longest membrane life. How often you flush the membrane will depend on the water conditions and usage. The ultrafiltration membrane should be flushed at least once per month, and some users may find they need to flush it a few times a month, weekly, or even daily.

In general, you will know it is time to flush the membrane when there is a consistent, noticeable drop in water pressure.

