

Pump Manager™ - Circulation Kit

◆ Description:

The **Pump Manager** converts an existing hot water circulation line into an efficient on-demand delivery system.

The **Pump Manager** delivers hot water only when there is a demand:

- ◆ Reducing Energy Costs &
- ◆ Virtually Eliminating Pinhole Leaks

In most case the existing circulation pump can be converted in 5 easy steps:

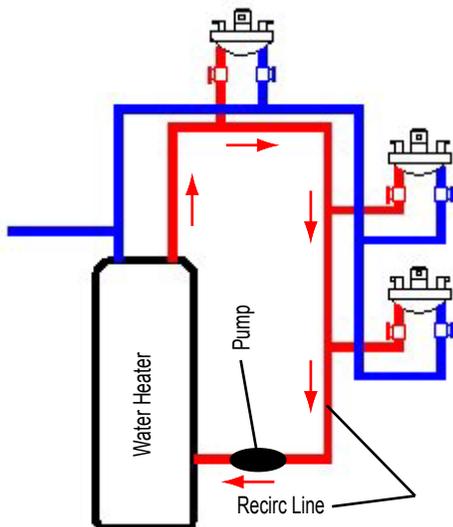
1. Unplug the pump
2. Plug the **Pump Manager** in
3. Plug the circulation pump into the **Pump Manager**
4. Install the **Water Monitor** on either the cold water into or the hot water out of the water heater
5. Connect the wires from the **Pump Manager** to the **Flow Monitor**

When the **Flow Monitor** detects a hot water demand the **Pump Manager** turns on the pump and rushes water out to where it is needed.

The **Pump Manager** will run the pump for approximately 2 minutes to ensure that hot water is available throughout your home.

◆ Plumbing Configuration:

Typical Layout - Hot Water Recirculation Line



◆ Advantages:

True On-Demand Operation - a demand from any hot water faucet or appliance in the house will activate the pump.

- ◆ No buttons
- ◆ No remotes
- ◆ No motion sensors
- ◆ No timers

Saves Energy - as hot water moves through your house your it cools off and needs to be reheated.

By turning off the recirc pump the hot water stays in the water heater which is much more efficient at retaining heat.

- ◆ Studies show that hot water is used less than 5% of the time. That means, 95% of the time you could be saving energy!
- ◆ Extends the life of your pump, pipes and water heating equipment.

Reduces Leaks - Stopping hot water from circulating in your hot water pipes virtually eliminates pinhole leaks.

- ◆ Stopping the water allows your water pipes to "heal" themselves by reforming a thin patina on the surface of the pipe.
- ◆ 87% of all leaks occur in hot water pipes.

Works with tankless water heaters - Turning on any hot water faucet will start the pump and the water heater. Two (2) minutes after the demand ends both the pump and the water heater turn off.

- ◆ Does not void manufacturer's warranties. Timers & continuous operation void most warranties.
- ◆ A new higher speed pump may be required. We recommend a 1750 rpm to 3600 rpm pump.

New or retrofit installation - the **Pump Manager** can convert any pump to True On-Demand Operation.

- ◆ Installs in less than an hour
- ◆ No additional piping required

◆ Circulation Kit Includes:

Each kit contains all of the equipment you will need to convert one circulation pump to an On-Demand hot water delivery system.



Pump Manager



Flow Monitor

Lights on the front of the **Pump Manager** indicate the current status.

Green light - indicates whether or not the **Pump Manager** has power and is monitoring hot water demand

Red light - indicates whether or not the **Flow Monitor** has detected flow