

Watts® Instant Hot Water Recirculating System

Save water, save time, save money and never wait for hot water again!



Model: F500805

How much water are you wasting?

We estimate the average house has 125 feet of 3/4" pipe, which holds 3.14 gallons of water. (Even more if 1" pipe is used.) Now, let's assume hot water is used ten times a day. This means 31 gallons of water must flow through the pipes before hot water reaches all outlets. This amounts to 11,315 gallons of wasted water, per household, per year. And if your home is larger than average, we estimate you may be wasting 15,000 gallons of water on an annual basis, simply waiting for hot water!

Pump installation

Our top quality Grundfos®, low energy 120 VAC, 60 Hz, circulating pump is installed on the discharge side of the water heater. If flex pipe is used, there is no need to cut the pipe. Otherwise this procedure will be necessary.

Pump comes with built-in timer with multiple tabs for adjustment. The pump will re-circulate internally, preventing damage in the event water flow is stopped.

Grundfos pump is UL and NSF Standard 61 certified.



Re-Circulating Pump

Patented, thermal sensor by-pass valve

Install the patented thermal sensor by-pass valve at the sink which receives hot water last. Typically, this is the bathroom, which is farthest from the water heater.

Notice flow arrows on sensor valve and proceed as follows:

1. Shut off hot and cold water supply lines.
2. Disconnect existing hot and cold water supply lines from the stop valves and connect them to the sensor valve.
3. Connect the supplied flex hosing to the stop valves and sensor valve. Notice arrows on valve to indicate direction of flow.
4. Open hot and cold water stop valves.

Maximum temp for components is 140°F (60°C).
Meets United Plumbing Code requirements.



Thermal Sensor By-Pass Valve

The sensor valve will remain open, allowing water to circulate until the water temperature reaches 98°F / (37°C) (plus or minus 5 degrees), indicating hot water has been supplied to all fixtures in the house. The valve will remain closed as long as the water temperature exceeds this limit. When water temperature drops below the limit, the valve will open, allowing water to re-circulate until hot water is provided.

Note: For larger homes Watts supplies additional sensor valves, should they be necessary for additional supply lines. (P/N: F560075.)