

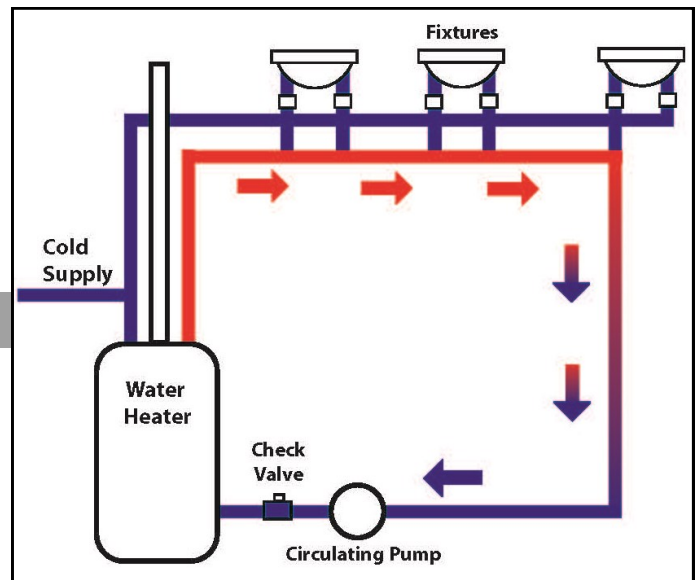
# Recirculating Hot Water System Rebate Program

## What is a Recirculating Hot Water System?

A recirculating hot water system uses a by-pass valve that connects the cold and hot water supply lines at the fixture that is farthest away from the water heater. The by-pass valve uses the cold water line as the return loop back to the water heater, continuously recirculating warm water. The process can be viewed in the diagram to the right.

## Recirculating Hot Water System Options

Not all recirculating hot water systems are the same. There are several options that allow for hot water to be delivered to fixtures quickly. Recirculating hot water systems can be activated by the push of a button, by a thermostat, or by a timer.



- 1. Pump (Farthest Point)** - The pump is placed under the sink at the farthest fixture and is activated at the push of a button. The system is installed at only one fixture. The system needs an electric outlet to operate, however, not all homes are equipped with outlets under the bathroom sink. Since the system starts by pushing a button, hot water is not instant.
- 2. Remote Pump (Water Heater)** - The system activates a remote pump that is located near the water heater. With this system hot water is always available. However, water is constantly pumped through the system, even when you are sleeping or away from your home.
- 3. Temperature Controlled** - The recirculating pump is controlled by a temperature-sensing circuit that will shut off the hot water pump once the water temperature reaches a predetermined temperature and will switch the pump back on when the water temperature in the pipe drops below a second predetermined temperature. The system needs an electric outlet to operate; not all homes are equipped with outlets under the bathroom sink.
- 4. Time Controlled** - The recirculating pump is controlled by a timer that will shut off the hot water pump during hours when hot water is not used. An advantage of the system is that the timer can be set to go on and off at specified timer intervals depending on demand. The system needs an electric outlet to operate; not all homes are equipped with outlets under the bathroom sink.
- 5. Gravity Loops** - Gravity hot water recirculating loops do not require a pump and sometimes can be installed after a house is built. In this type of system, the heated water (which is less dense than cold water) rises through the loop, and as the water cools at the top of the loop, it falls and is thermo-siphoned back into the hot water heater. The water enters the bottom of the heater at the drain valve inlet. This flow of water is slow but constant. To save energy, the entire loop must be insulated. However, the last 15 feet of pipe should not be insulated since it is close to the heater. The system will only work when the water heater is below the water supply lines and it requires that the hot water line return back to the heater after it services the farthest fixture.



City of Corona Department of Water and Power

[www.CoronaCA.gov](http://www.CoronaCA.gov) (951) 736-2234 [StopTheDrop@CoronaCA.gov](mailto:StopTheDrop@CoronaCA.gov)

Valid 1/1/18 to 12/31/18

# Recirculating Hot Water System Rebate Program

## Rebate Information/Terms and Conditions

1. Read the program terms and conditions and the guidelines provided with this package.
2. The rebate only applies to newly installed recirculating hot water systems.
3. The rebate amount is \$50 per recirculating hot water system.
4. Installing a recirculating hot water system **requires a permit and inspections completed by the Community Development Department** (Planning and Building Divisions) if there are any electrical additions. The submitted plans must clearly show the piping system and the proposed alterations. A permit application is available online at [www.CoronaCA.gov](http://www.CoronaCA.gov).
5. Once you have obtained a permit, completed the required inspections, and installed your recirculating hot water system, please submit a completed, signed Rebate Request form, a copy of your receipt, a copy of your permit from the Community Development Department (if applicable), a copy of your current water bill, and a picture of the installed recirculating hot water system. Please keep a copy for your records.
6. DWP will contact you once your paperwork has been reviewed and approved. At that time DWP will confirm that account credit is being applied to your water account for the rebate amount.
7. DWP will apply a credit to your water account for the rebate value. A credit is posted to your account within 2-3 weeks.

### Eligibility

1. The recirculating hot water system must be purchased within 30 days prior to submitting an application.
2. The property must receive water service from the City of Corona Department of Water and Power (DWP).
3. The Recirculating Hot Water System Rebate only applies to new recirculating hot water pump systems.
4. A permit and complete the required inspections through the Community Development Department (Planning and Building Divisions) may need to be obtained.

### Program Terms

1. DWP customers may reapply for a Recirculating Hot Water System Rebate every 5 years if the program remains available.
2. The completed Rebate Request form must be submitted with a copy of your receipt, a copy of your current water bill, and a picture of the installed recirculating hot water system.
3. DWP reserves the right to conduct a site visit to confirm the recirculating hot water system is installed.

## Resources

### Potential Savings

Water savings from recirculating hot water systems depend on the flow rate, type of fixture and the distance from the water heater. For example:

2 minutes per shower\* x 2 gpm (max) x 2 people per house x 365 days x 5 years = **14,600 gallons**

4 minutes per shower\* x 5 gpm (max) x 4 people per house x 365 days x 5 years = **146,000 gallons**

10 minutes per shower\* x 5 gpm (max) x 8 people per house x 365 days x 5 years = **730,000 gallons**

\*Assuming the length of time varies for the hot water to travel to the farthest fixture.



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Valid 1/1/17 to 12/31/17



**City of Corona**  
**Department of Water and Power**

**Recirculating Hot Water System Rebate Program**  
**Rebate Request**

**Applicant Information**

Applicant Name: \_\_\_\_\_

Daytime Phone Number: \_\_\_\_\_

Email: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_

Zip: \_\_\_\_\_

Water Service Account Number (include copy of recent bill): \_\_\_\_\_

**Recirculating Hot Water System Information**

Recirculating Hot Water System Brand/Model: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Installation Date: \_\_\_\_\_

**Disclaimer**

City of Corona Department of Water and Power (DWP) makes no representation or warranty relating to contracted services or products that may be installed, including any hazardous substances that may be contained in any product. Installation of recirculating hot water systems does not guarantee reduced water use. This application is for a rebate only.

By participating in the program, applicant waives, and releases DWP and its contractors and agents from, any and all claims and causes of action arising out of the installation or use of devices in connection with this Recirculating Hot Water System Rebate Program. Any claim the applicant may have based upon any defect or failure of performance of a contracted service or device purchased by the applicant should be pursued with the contractor or manufacturer/distributor.

DWP only enforces the terms and conditions of the Recirculating Hot Water System Rebate Program. The applicant is responsible for complying with all applicable laws, codes, policies, covenants, conditions, and restrictions that may apply. The applicant is responsible for obtaining the necessary permit(s) through the Community Development Department (Planning and Building Divisions).

**Signature (required)**

By signing below, the applicant agrees to comply with the program terms and conditions, as well as all Federal, State and local codes, including covenants, conditions and restrictions, as applicable. The applicant has read, understands and agrees to the terms and conditions of the program as outlined and certifies that the information on the application is complete and accurate.

Applicant Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Submit completed Rebate Request with a copy of your receipt, a copy of your current water bill, and a picture of the installed recirculating hot water system to:

**DWP – Water Resources Team**  
**755 Public Safety Way**  
**Corona, CA 92880**

***We must receive a copy of your receipt, a copy of your current water bill and a picture of the installed recirculating hot water system or we cannot process your rebate.***

Valid 1/1/18 to 12/31/18