

OPERATING INSTRUCTIONS

AUTOMATIC SCHEDULED OPERATIONS:

Utilizing the supplied timer, RedyTemp will cycle on and off during the times you specify. See timer instructions supplied elsewhere in your package. By upgrading to a digital “multi-event” timer, unique day-of-week, weekday, weekend, etc. operation settings can further enhance comfort and savings, i.e. separate weekday vs. weekend operations.

MANUAL / SWITCHED OPERATION:

Wireless wall switch controllers can replace the timer as a means of operation, including X-10 home automation products to turn the unit “ON” or “OFF” manually.

PUSH-BUTTON / TIMER SCHEDULED-OFF OVERRIDE / ON-DEMAND OPERATION:

By installing a momentary contact switch (doorbell button) the RedyTemp can be operated on a single cycle basis as well as allow operation during scheduled-off time periods. Purchase any standard 4 wire phone cord. Cut one end of the phone cord off and connect the two middle wires from the phone cord to the momentary contact switch. Plug the other end of the phone cord into the phone jack on the front of the RedyTemp. Additionally, wireless wall switch controllers can be wired for this operation.

WIRELESS / REMOTE CONTROL:

RedyTemp can be operated “wirelessly” by unplugging the timer and replacing it with any number of wireless / remote outlet control or X-10 home automation devices available at most home improvement stores and the internet.

CONTINUOUS OPERATION:

Can be set for continuous operation by removing the timer and plugging in the short white cord to where the timer was plugged. Now the unit will function through its temperature dial zones 24 hours a day.

TEMPERATURE CONTROL:

Turn the adjustment knob clockwise to increase the temperature cycle zone, counter clockwise to decrease. More often than not, homeowners set their dial to between the 1 o'clock to 3 o'clock positions on the dial. Finding your homes unique delta-T “sweet spot” can be dialed-in by following this basic rule: If you turn on the cold water faucet where the unit is installed and you get more than 2-3 seconds of “warmish” water then simply turn the temperature control knob counter clockwise “just a hair”. Wait 2-4 hours for the homes plumbing to adapt to any new settings. Adjust the knob clockwise if the water from the hot water faucet is not hot enough. Setting the temperature dial “too high” will cause “hot” water to be placed into the cold line.

PIPE FREEZE PROTECTION:

RedyTemp can “assist” in preventing pipes from freezing by setting the temperature control dial to lower positions. And placing the unit in continuous operation mode.

VACATIONS / DISABLED OPERATION:

When going on vacation or long periods of no hot water usage, simply unplug the power cord from the wall outlet.

PUMP CYCLES / OPERATION:

Many factors influence pumping cycles, i.e. outside temperature, length of water travel, diameter of pipes, pipes in cement slab/foundation, insulated / non-insulated pipes. Systems that pump too fast can cause too much hot water to enter the cold water line resulting in loss of cold water comfort as well as wasted thermal energy. Optimizing your system to deliver hot water at your desired comfort temperature with minimal cold water discomfort is the key to optimizing your homes hot water comfort. Anticipating hot water usage periods accurately and using a control which best fits your lifestyle is the second part to an optimized hot water system. A person who travels a lot may find that using motion sensors or sound sensors more efficient than using a timer. One proud owner was known to use “The Clapper” set in burglar mode. The Clapper would activate the RedyTemp in the master bathroom upon hearing the morning alarm clock. Adjusting the sound sensitivity on The Clapper was key to preventing false starts in this control style. With the right temperature settings and control type homeowners can greatly improve the comfort and convenience of their home while saving thousands of gallons of water and in the process slow the effects of global warming.

PRECAUTIONS

Before operating the unit, please read this instruction guide thoroughly and with understanding before handling / installing unit. Keep this guide for future use.

IMPORTANT SAFEGUARDS

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only. Have a dry towel at the ready when installing or uninstalling unit to wipe up any water on unit or area of installation.

When using electrical products—especially when children are present—basic safety precautions should always be followed, including;

- Operate the unit only on 120—Volt AC.
- **Unplug the unit from the wall outlet when it is not going to be used for an extended period of time.** To disconnect the cord, pull it out by grasping the plug. **Never pull it by the cord.**
- Do not handle the plug or cord or unit if water is present on floor, near unit’s power connections or with wet hands. Dry area’s thoroughly before connecting or disconnecting to / from power outlets.
- Never operate this product if it has a damaged cord or plug; if it is not working properly; or if it has been dropped or damaged.
- Use this product only for its intended use as described in this instruction guide.

WARNING: WHEN USING THIS PRODUCT PLEASE PAY CLOSE ATTENTION TO THE FOLLOWING SAFETY TIPS TO ACHIEVE THE BEST RESULTS FROM YOUR UNIT.

- Do not open or remove the enclosed cabinet. The unit has been tested and preset for normal operations. Do not alter, change or tamper with the unit or the water flex lines after installation.
- REDYTEMP performs well with the hot water heater temperatures set at a minimum 120 F. **Some states prohibit water heater temperatures to be set above 120 degrees F to avoid scalding. If the water heater is set below 120 degrees F, you may experience warm water at your cold water faucet.**
- Turn-Off the unit whenever the hot water heater or water supply is shut off. We recommend placing a 3x5 card next to shut-off valves at the heater and main shut-off valve stating: **STOP! Unplug Recirculation Pump Before Closing This Valve!** Continued use of the unit in this condition will result in damage of the pump.
- If a water leak occurs, follow safety instructions above before disconnecting the electrical plug from the wall outlet. Then turn-off the hot and cold water outlet valves.

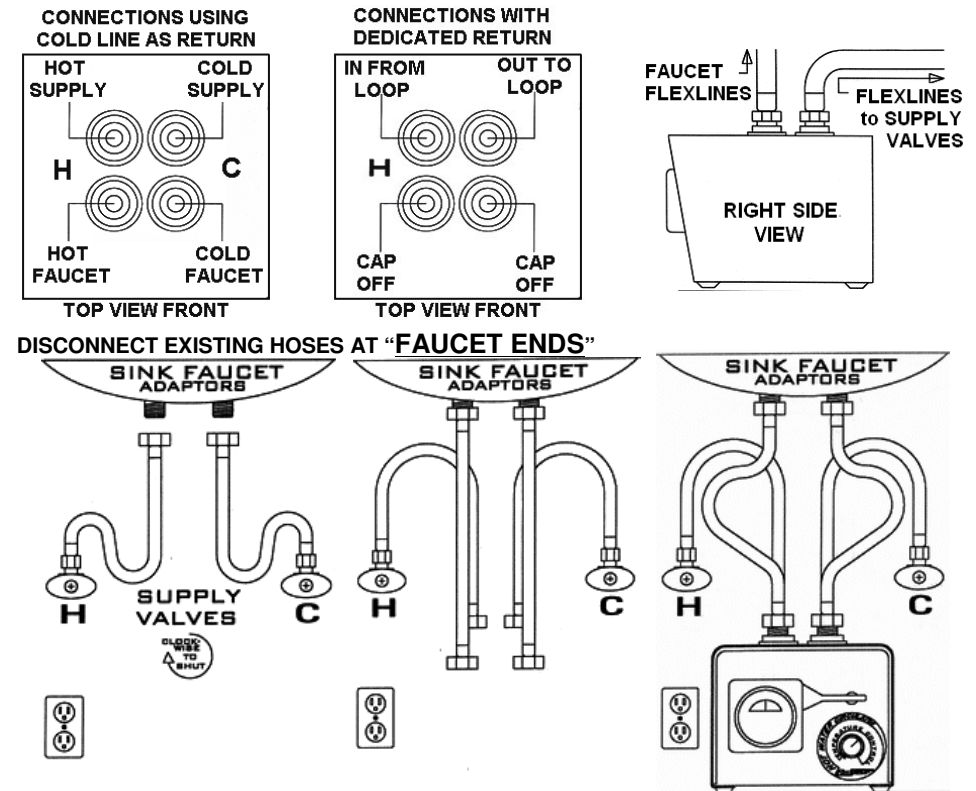
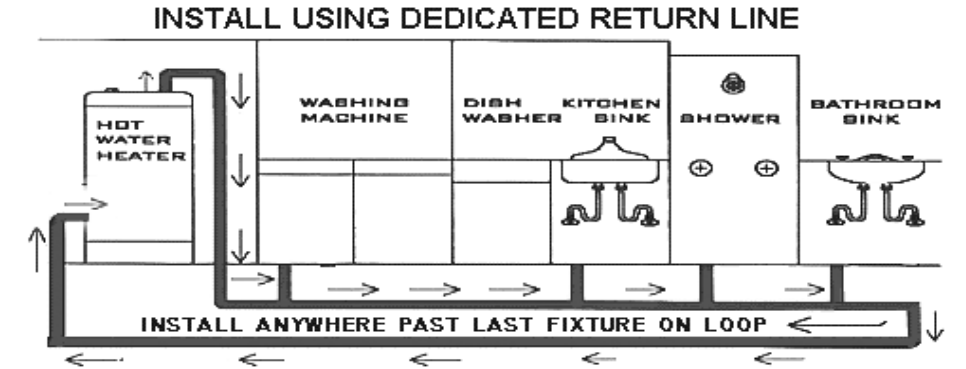
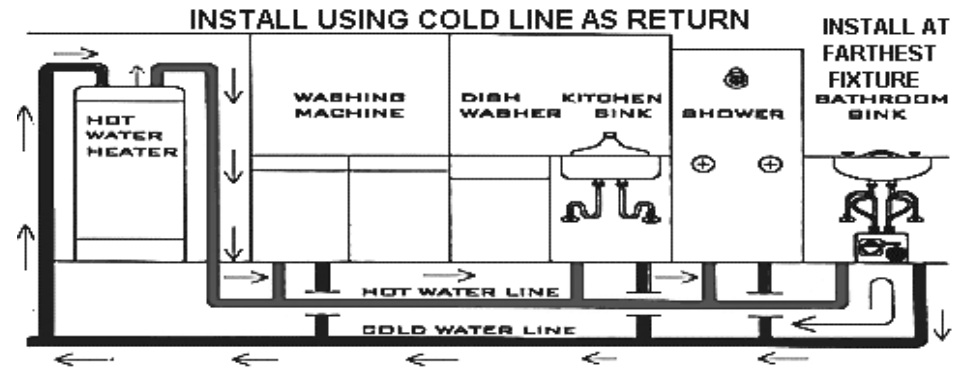
WARNING

Proprietary information: The product(s) and documentation provided hereunder are TEMTROL DELTA T, INC’s trade secret, patented proprietary products and information. Customer agrees not to disclose such materials to any other party and not to reverse engineer or use the products in any manner except as contemplated in this User’s Guide.

INSTALLATION INSTRUCTIONS

To ensure proper installation of your **OPTIMIZER-3000** unit, please read the instruction sheet completely before proceeding. Your REDYTEMP unit is fully assembled upon delivery. Remove unit from the shipping container and examine the contents for any visible damage. Write the unit's Serial number on the warranty / registration card on the last page of this manual.

- Examine the plumbing system in your home to determine the furthest fixture from the hot water heater. Test for the location of this fixture when the hot water has not been used for an hour or more. Turn the hot water faucet on at this fixture and wait until hot water arrives. If this is the fixture at the end of the line, hot water should be readily available at the other fixtures leading back to the water heater. Repeat the test at another fixture if the results prove incorrect. NOTE: Some homes may have two hot water main supply lines, requiring two REDYTEMP units or a single unit on the most active line.
- Remove all articles from under the desired plumbing fixture. Have a towel and small bucket available for any water spills. Shut the hot and cold water supply valves by turning both valves completely clockwise. The valves are connected to the water supply lines or tubes directly under the sink.
- Turn the hot and cold water faucets to the "Open" position and allow any remaining water / pressure within the lines to drain into the sink. Make sure there is no water flow through the faucets before proceeding. If the flow of water does not stop, double check the supply valves to see if they are *completely closed*. If the flow of water continues, a possible leak in one of the supply valves may exist and will require replacement. A licensed plumbing contractor should be consulted if this becomes necessary. This is a good time to highly suggest installing good supply valves and flex lines to avoid any chance of a future leak that may occur at these new connections.
- Disconnect the "end" of the two faucet supply lines or tubes from the sink faucets adaptors. An 8" crescent, or 7/8" wrench, can be used for this job. As a precaution, a small container should be placed under the sink just in case excess water is still remaining in the lines.
- Find the two flex lines provided and connect and tighten one to each sink faucet adapter.
- Set the REDYTEMP unit under the sink, making sure the front of the unit faces you. **BE VERY CAREFUL NOT TO STRIP THE THREADS ON THE UNIT CONNECTORS.** Connect and tighten the hot supply flex line to the hot supply connector, connect and tighten the cold supply flex line to the cold supply connector, connect and tighten the hot faucet flex line to the hot faucet connector, and finally connect and tighten the cold faucet flex line to cold faucet connector on the unit.
- Use your wrench to tighten the connections, but do not exceed more than a half turn after they first get snug. Double check all the connections before proceeding. Turn on the hot and cold water faucets then turn on the hot and cold water supply valves to the fully opened position by turning them counter clockwise. Let the water run until the air within the lines is completely purged, then turn off the faucets. Inspect all connections for any leaks and wipe up all water from unit, floor and hands. **DO NOT PROCEED WITHOUT FIXING ANY LEAKS THAT MAY BE PRESENT AT THIS TIME.**
- Find the disconnecting power cord and plug it into the machine. Plug the power cord into a 115 volt AC outlet. When installing under kitchen sink, the outlet of choice is often controlled by the garbage disposal switch and may not allow usage correctly. If this is the case consider sharing the outlet used by the dishwasher. If there is no outlet in the sink cabinet, consult a licensed electrician for installation of an outlet under the fixture.
- Check the timer switch to make sure the unit is "ON". The pump should be starting to circulate the cold water out of the hot water lines. **BE SURE TO AIR OUT THE SYSTEM BEFORE SHUTTING OFF YOUR FAUCETS.**



CONGRATULATIONS, and sincere thanks from the TEMTROL deltaT Inc. family for purchasing the world's most advanced hot water recirculation / circulation / on-demand system ever built. REDYTEMP is engineered with 21st century technology to maximize efficiency, comfort and water conservation. The REDYTEMP system provides an instant (Redy) means of regulating the water temperature (Temp) throughout your home, giving your entire family the convenience of instant hot water at your desired temperature and readiness. And, by using the REDYTEMP system, the conservation of our earth's precious water supply is an added benefit.

It has always been our goal to offer consumers the best technology, the highest quality in a homeowner friendly appliance that will supply many years of service and convenience to discriminating consumers. We extend our appreciation to you for incorporating the REDYTEMP HOT WATER RECIRCULATOR into your household appliances, and trust that you too will want to be added to our list of satisfied customers.

Sincerely,

The RedyTemp Family

A Product of Temtrol Delta T. Inc.
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SCHEDULED-OFF TIMER OVERRIDE PUSH BUTTON INSTALLATION
DO NOT CONNECT TO HOME PHONE JACK OR TO A TELEPHONE
(this will void warranty)

The RedyTemp is engineered with the capability of single-cycle operations or On-Demand hot water delivery via momentary contact switch or a wireless momentary contact control device depending on the owner's desired operation.

The installation is simple and easy requiring a "momentary contact" switch or non-illuminating doorbell button readily available at home improvement / hardware stores for around \$2.00. You will also need a single 2 or 4 wire phone cord easily available at 99 cent stores or electronics stores.

Simply cut the connector off one end of the phone cord, splice the two middle wires within the cord and connect to the momentary contact switch / doorbell switch connection screws. Plug the opposite end of the phone cord into the jack on the front of the RedyTemp. Now when you press the button, "while the timer is in the OFF-SCHEDULE" operation AND the water temperature is below set point, the RedyTemp will override the timer or any other controlling device and run for ONE (1) cycle only and stop.

It is easy to imagine the simplistic installation for multiple switch installation throughout your home using a multi-phone jack connector and run multiple switches within your home. This would enable operation from multiple locations throughout your home.

In keeping with our tradition of "industry first's", we have enclosed an awareness safety sticker. This sticker helps prevent accidental damage to your RedyTemp recirculation system by notifying anyone attempting to turn off the water supply that a recirculation system is installed in your home. Place this sticker in clear view of your water heaters water supply shut-off valve. Additional printouts of this label can be downloaded / printed from the below website address. Simply print the image and place at other water supply shutoff valves i.e. city main water shutoff valve / meter, etc. You may want to consider protecting any printouts with document protectors or covering with clear tape.

www.redytemp.com/STOP_BEFORE_CLOSING_WATER_VALVE.jpg



**UNPLUG *REDYTEMP* RECIRC PUMP
BEFORE CLOSING WATER VALVE**