

RV550 OPERATING INSTRUCTIONS

The RV-550 is designed to give a continuous flow of hot water for as long as required and maintain a constant water temperature. The temperature on your water heater has been factory set to the hottest setting approximately 120+°F. A temperature adjustment may be required, based on incoming water temperature, during summer or winter months to decrease or increase outgoing water temperature. The temperature can be adjusted by turning the temperature adjustment (summer/winter) clockwise or counter clockwise to maintain a comfortable water temperature. **Be aware the heater is capable of producing dangerously hot temperatures that could result in severe injury.** Refer to the Service Manual or call PrecisionTemp for assistance if needed.

The heater is dormant until a hot water tap is opened. The hot water tap must be completely opened to start the heating process then throttled back to produce very hot water. The heater will not fire at very low flows; i.e., under 0.5 GPM. When adjusting water temperature by adding cold water it is best to start with hot only and slowly add cold into the mix until the desired temperature is reached.

NOTE: When using an "on/off" button on a shower head or an outside wash down box, always turn off the hot and cold water valves when finished. Not doing so will result in cold water bleeding into the hot water plumbing.

Dry Camping

RV showerheads are designed to drip when turned off and will allow the hot water line to be filled with cold water. When showering it is recommended that you leave the water running as you would at home. You will not run out of hot water and you will not waste additional water waiting for the cold water to purge from the water line every time the water is turned back on.

Winter Operation

When operating the RV550 in cold climate conditions the flow of water may have to be slightly restricted or slowed at the faucet to maintain the set temperature of 120+ degrees.

NOTE: Your RV550 is equipped with the Cold Weather Protection Package. The 12vdc power and propane must be left on to protect the RV550 from freezing in cold climate conditions.

Winter Driving Instructions: Under no circumstances should you travel in freezing conditions without first draining water from the unit. Freezing is not covered under the product warranty.

RV550 Water Heater

Winter Driving Draining Instructions

1. Turn off water supply.
2. Open all hot water faucets.
3. Open the plumbing low point drain.
4. Remove the RV550 door and open the Pressure Relief Valve by moving the lever to the open position and turn the Summer/Winter valve to the Summer Position.
5. The water lines and the RV550 will now drain.
6. When all water is drained from the hot water lines leave the Pressure Relief Valve and hot water faucets open while driving.
7. The heater is now safe to drive in freezing temperatures.
8. Once your destination is reached close the RV550 Pressure Relief Valve and close the drain valve. Turn on water supply, once air is purged from the lines close all hot water faucets and turn on power.

Routine Maintenance

All faucet aerators and showerhead screens should be cleaned regularly. It is recommended that the RV-550 be inspected by a qualified service technician at least once a year. Particular attention should be paid to the following:

1. Inspect the air inlet openings and flue area to be clear of any debris or obstructions, (leaves, bug nests, spider webs, etc.)
2. Check that the heater mounting is secure to the coach and there are no areas for potential water leaks.
3. Open the cover of the heater and inspect for debris. Inspect the power vent exhaust opening and the clear air pressure switch tube for debris or obstructions. Clean if needed.
4. Visually inspect wiring. Be sure there is no chafing of the insulation. Be sure that the direct spark ignition cable (black wire) is secured to the electrode at the burner. If any wiring is chaffed or damaged in any way repair as needed.
5. Check for soot around the exhaust opening. Soot is a sign of incomplete combustion. If you find soot build up call a qualified service technician to correct the problem.
6. The pressure relief valve should be manually activated once a year by moving the lever on the top of the valve 90° while power is turned off. Never perform this operation while the burner is operating or scalding could occur. Never plug the pressure relief valve. If the valve is actuating too frequently replace valve or contact PrecisionTemp.
7. Unplug all connectors and reconnect with power turned off. Inspect and clean corrosion from the ground wire connection.

NOTE: Should overheating occur or the gas supply fails to shut off, turn off gas valve at the supply tank. Immediately call a qualified service technician

WARNING: Always turn off the 12-volt power supply to the heater while the vehicle is moving and during any fueling operations. Operating this water heater or any other ignition source during fueling could cause a fire or explosion which could result in serious injury or death. Trying to produce hot water while driving or moving may damage the RV550 electrical components and cause a fire.

IMPORTANT COLD WEATHER PROTECTION INFORMATION

Winter/cold weather operation

During winter months the unit might fire up for about 15 seconds without water movement to reset cold weather protection. Short ignition periods when temperatures are below 40 degrees is part of the freeze protection.

WARNING:

Do not disconnect the electrical supply or turn off the propane supply when temperatures are near or below freezing. The RV550 freeze protection system will not work if the electrical power source or propane is disconnected.

WARNING: Under no circumstances should you travel during freezing conditions without turning power off and draining water from the RV550.

WINTERIZING

Draining

1. Turn off the power and gas supply to the RV550.
2. Turn off main water supply.
3. Open all hot water taps. (Bathroom, kitchen, laundry, etc.)
4. Drain all water from plumbing lines.
5. Open pressure relief valve and turn the Summer/Winter valve to the Summer Position to drain remaining water from the RV550.
6. After completely draining the system it can be winterized, for most RV's, by purging the remaining water out of water lines with compressed air or pumping RV antifreeze solution through the hot and cold water system. The heater holds approximately one + pint of water.

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