

JAG Mobile Solutions

Winterizing Instructions

Shower Trailers

Each JAG Mobile Solutions shower trailer that will be stored in temperatures at or below freezing will need to go through a winterization process to protect vital components from freezing, which could result in costly repairs to the unit.

The plumbing system must be either cleared of water using compressed air, or must be filed with RV Antifreeze (propylene glycol). In either case the On-Demand Water Heaters must be completely drained and cleared.

Please read complete instructions before beginning

Compressed Air Method

First, if your trailer has an on board water pump, it needs to be drained. Run the pump until it is dry and longer pumping water. Then remove the drain plug underneath the pump head (not the pressure tank underneath the pump head), and turn the pump on until it runs dry. OR, if your trailer has a "T" in the water line before the pump to pull from an outside source, you can connect the compressed air to that "T" by a $\frac{3}{4}$ " hose connection, remove the drain, and blow compressed air through the pump until the air is dry.

To clear the plumbing system using forced air, the water inlet must be connected to an air compressor. You will need a $\frac{3}{4}$ " threaded hose fitting at the end of your air hose. An easy way to make this connection is to remove the $\frac{3}{4}$ " hose fitting from a garden hose and attach it to an air hose via hose clamp.

Once you've made the connection, be sure to keep your air pressure between 50 and 75 pounds.

Open the CITY FILL VALVE and CLOE the TANK FILL Valve. Start with the shower furthest from the water heaters and open the shower valve to the middle temperature, letting it run until it has thoroughly been cleared of water. Then repeat this process for each of the other showers and sinks, working back toward the water heaters. It can be helpful to open each of the showers and sinks a second or third time to completely clear the water lines.

Once the showers and sinks have been cleared, the water heater(s), and remaining water lines need to be cleared.

After the water has been cleared from the lines, dump 16 ounces RV antifreeze (propylene glycol) down the p-traps for each of the showers and sinks.

On Demand water heaters have a pressure relief valve, a filter, and a drain. The filter and the drain are located at the bottom of the unit. At this point, it is helpful to have a bucket and rags to catch water coming out draining from the water heater. Stop the air flow by turning off the "CITY FILL" valve in the service area. Shut off the outlet valve on the water heater. Remove the filter, which will either be black plastic or brass, and located on the bottom of the unit. To remove it, simply unscrew it (normally by hand). Let the water drain from the filter hole. Then open the airflow again to allow air and water to escape from the filter hole until the air feels dry. Stop the air flow with the City Fill valve. Clean and dry the filter, and replace.

Remove the brass drain at the bottom of the water heater, let water drain, turn on air and allow it to run until the air is dry. Replace the drain plug.

With the air on, open the pressure relief valve on the water heater. The pressure relief valves are located off to the side of the units, at the end of white plastic PEX water lines. They are brass with metal flip top. Close the water heater inlet valve.

Repeat this process with the second water heater, if your trailer has two. Also be sure to blow out the lines that connect the two water heaters.

It may be helpful to repeat the entire process two or three times to completely drain all water.

The next step is to clear the plumbing to the fresh water tank. Close the "city fill" valve, and open the "tank fill" valve. Allow the compressed air to run the water in the lines out into the fresh water tank. Now open the tank drain to let the water out.

Re-check to be sure that you've run compressed air through all possible outlets, including showers, sinks, water heaters, water pump, and all water lines.

If your shower trailer has toilets, they'll need to be cycled until dry air runs through them.

Finally, be sure that your waste tank has been completely drained.

RV Antifreeze Method

Another popular method of winterizing shower trailers is to run RV Antifreeze (propylene glycol) through the entire plumbing system, including water lines, showers, sinks, and pump. ***Even when using the antifreeze method, the On Demand Water Heaters still need to be drained and blown out with compressed air (see the compressed air instructions above).*** The antifreeze method is affective, but can use up to 20+ gallons over antifreeze.

Once you've blown compressed air through your water heaters, turn the water heater inlet and outlet valves to the CLOSED position. OPEN the valve in between the two water heaters (in the middle of the "H") to bypass the water heaters. Now the antifreeze will run to the plumbing system, but not through the water heaters.

If your shower trailer has only one On Demand Water Heater, after you've blown compressed air through it, close the inlet and outlet valve, and use the bypass valve to be sure not to pump antifreeze into it.

Depending on the year of your shower trailer, you may have a clear hose inline before your on board water pump. The clear hose goes your antifreeze supply, and uses the on-board pump to distribute antifreeze throughout your system. If you do not have a clear antifreeze hose inline before your water pump, then you'll need an external 12 volt water pump to distribute antifreeze throughout your plumbing system. 12 volt pumps are available at camping and RV supply stores, and are relatively inexpensive. They can operate from a car battery or similar, or from a 12 volt battery charger. It will need to be connected to the City Water Connection with a 3/4" hose fitting.

If you are using an external 12 volt pump; drain the water from your fresh water tank. Close the tank drain valve. Open Tank Fill valve to allow antifreeze to run into the fresh water tank. Be sure to let enough antifreeze flow into the tank so that the level allows the on-board pump to pull the antifreeze from the fresh tank (5-10 gallons). Now turn on the on-board water pump and allow the pump to fill with antifreeze, and to pump antifreeze to the closest shower. Drain the tank when done, and leave the drain valve open. Close the Tank Fill Valve. Open the City Fill Valve, and Close the valve between the fresh tank and water pump.

With the water pump on, and its supply in the RV antifreeze container (a clean five gallon bucket works well), run each of the fixtures until the liquid turns from clear water to deep pink antifreeze. Start with the shower furthest away from the water pump, and work your way back, including sinks. Be sure to let it run long enough to move past the point of antifreeze/water mixture to pure antifreeze.

Perform this process with each shower and sink. Be sure to allow 16 ounces of antifreeze to run into each of the p-traps for the showers and sinks.

If you are using the on-board pump to distribute antifreeze, be sure to also open the City Fill valve and the external shut off valve, so antifreeze can run out the city water connection outside the trailer.

Once you've run antifreeze through all your water lines, water pump, p-traps, you'll need to drain your waste water tank completely.

If your shower trailer has toilets, they'll need to be cycled until RV antifreeze runs through them.

Don't hesitate to contact JAG for assistance. 800-815-2557

Thank you for choosing to purchase from JAG Mobile Solutions