

Partial Plumbing System Winterizing with *Aquago* Propane Instant Water Heater



CAUTION: YOUR TRUMA *AQUAGO* WATER HEATER IS A VERY POWERFUL DEVICE BUT THAT RUNS A MUCH GREATER RISK OF FREEZING BECAUSE IT DOES NOT HAVE THIS BIG 15 LITRE TANK WHICH WILL BE LAST TO FREEZE IN COLD WEATHER. EVEN IF YOU DO NOT COMPLETELY WINTERIZE VEHICLE, CONSIDER WINTERIZING *AQUAGO* WATER HEATER AS SOON AS TEMPERATURES BELOW FREEZING POINT ARE FORECAST.

Procedure to partially winterize plumbing system with *Aquago* water heater is simple and fast. This procedure only ensures winterization of *Aquago* instant water heater and only protects the latter from freezing. After this partial winterization, it is still possible to temporarily "de-winterize" system for a few days of camping in cooler weather (see "Re-use of *Aquago* Instant Water Heater during Light Freeze" section *G. Winterizing*).

1. Set water heater switch (PHOTO D-8) located near control panel on upper cabinet near sliding door to "OFF" position.
2. Switch off water pump using "PUMP" switch (PHOTO A-2) located near control panel on upper cabinet near sliding door. Indicator light must be out.
3. DANGER: To avoid splashing at step 5, open hot water tap to remove any residual pressure in pipes.
4. At rear of water heater compartment, put A and B bypass valves in winter position (PHOTO D-11), which is vertical, and close return line E valve (turn 90 degree from return line) (PHOTO D-12).
5. Open heater access door, trigger toggle lever (PHOTO H-1) and maintain in horizontal position until water stops flowing (about 2 minutes).
6. **Remove the cartridge filter located inside the toggle lever and store it inside the vehicle until the next start up of the plumbing system. (photo H-1.1)**
7. Close toggle lever (PHOTO H-1) and shut access door. Your heater is now protected from freezing but **NOT** the rest of the plumbing system.



PHOTO H-1
Toggle lever



PHOTO H-1.1
Cartridge filter

Complete Plumbing System Winterizing with *Aquago* Propane Instant Water Heater

For complete winterizing of vehicle, complete steps 1 to 6 above, then proceed with the following operations:

8. Switch off water pump using "PUMP" switch (PHOTO A-2) located on control panel. Indicator light must be out.
9. Before draining potable water tank, position RV so it leans to the rear.

10. Drain potable water tank and plumbing system using drain valve (PHOTO D-6) located under vehicle behind rear wheel on driver side.
11. Pour 16 litres (4 US gals) of -50°C RV antifreeze in potable water tank.
12. Turn on water pump using “PUMP” switch (PHOTO A-4)) on control panel. Indicator light should be on.
13. Open cold water tap until antifreeze reaches sink, let it run for 1 minute.
14. Open hot water tap until antifreeze reaches sink, let it run for 1 minute.
15. *Portable toilet: If vehicle is equipped with portable toilet, remove it for winter, empty it, clean it and store it away from cold temperatures throughout freezing season.
16. *Cassette toilet: If vehicle is equipped with cassette toilet connected to plumbing system, let antifreeze run for at least 30 seconds before emptying cassette (photo D-25.3)..
17. *Permanent toilet: Let antifreeze run for about thirty seconds using toilet hand lever (PHOTO D-30). If equipped with hand spray (PHOTO D-31), let antifreeze run out for a few seconds as well.
18. If equipped with rear hand shower and/or interior shower, turn on shower cold water until antifreeze runs for 15 seconds and then turn on hot water until antifreeze runs for at least 15 seconds.
19. Open *Aquago* D valve (PHOTO D-13) until antifreeze runs off under vehicle; this fills return line with antifreeze.
20. Shut off water pump using “PUMP” switch (PHOTO A-2) on control panel. Indicator light must be out.
21. Drain holding tanks (see “Dumping of Holding Tanks”, section *D. Water*).

Winterized this way, it is impossible to use *Aquago* Instant Water Heater without a complete start-up and disinfection of potable water system (see section *D. Water*).

To use *Aquago* Instant Water Heater Following Partial Winterizing of Plumbing System

1. **Insert the cartridge filter back inside the toggle lever located inside the exterior access door (photo H-1.1)**
2. Set bypass valves in horizontal (open) position (PHOTO D-11).
3. Open return line E valve (PHOTO D-12).
4. Set pump switch on control panel to “ON” position (PHOTO A-4).
5. Open D valve (PHOTO D-13) and run off about 2 litres (2 quarts) of water on ground under vehicle to fill water heater and return line, then close D valve.
6. Water heater can now be turned on and used.



CAUTION: THE TRUMA *AQUAGO* WATER HEATER IS HIGH PERFORMANCE EQUIPMENT, BUT MORE LIKELY TO FREEZE, BECAUSE IT DOESN'T HAVE THIS

LARGE 15 LITRE WATER TANK THAT WILL BE LAST TO FREEZE IN COLD TEMPERATURES. EVEN THOUGH VEHICLE HAS NOT BEEN COMPLETELY WINTERIZED, IT IS RECOMMENDED TO WINTERIZE AQUAGO WATER HEATER AS SOON AS TEMPERATURES DIP UNDER THE FREEZING POINT.



CAUTION: IF RE-USED DURING LIGHT FREEZE, INSTANT WATER HEATER MUST REMAIN « ON » IN « ECO » MODE AS RECOMMENDED IN THE SIMPLE TEMPORARY PROCEDURE TO PREVENT FREEZING DURING RV USE WHEN TEMPERATURES BELOW FREEZING POINT ARE FORECAST (SEE *D. WATER*)