

## Direct Fired Product Application Report

Application Report #: DF 08-08

**Topic:** Direct Fired Vaporizer Purge Procedure

**Applicable Models:** Algas-SDI's Direct Fired Vaporizer line  
**Models:** 40/40H, 60/60H, 80/40H and 120/60H

There are many different methods used in the field to purge a direct fired vaporizer. However, not all of them are safe for the end user or the gas technician working on the vaporizer. At Algas-SDI we are committed to ensure the users of our products know and understand simple procedures that could potentially harm person or property if not performed correctly.

In order to safely shut down a direct fired vaporizer, the unit must first be purged of all liquid inside the heat exchanger. The information contained below is a step by step procedure on how to purge your Algas-SDI direct fired vaporizer. This procedure should be followed anytime a vaporizer needs to be maintained, serviced, relocated or shut down for any other reason.

Direct Fired Vaporizer purge procedure:

**WARNING: Prior to purging the vaporizer, ensure that there are no closed ball valves or back check valves restricting the flow of liquid back to the tank.**

1. Ensure all tank valves are open with no restrictions of flow back to the storage tank. A check valve restricting flow back to the storage tank must never be used in a vaporizer installation.
2. Close outlet shut-off valve at the exit of the vaporizer.
3. Start burner per the instructions in the Operations & Maintenance Manual and turn the thermostat temperature dial to the "high" setting.
4. After the burner cycles off; turn thermostat knob to the "off" position, shut off igniter (if installed) and check that the pilot flame is extinguished.
5. After pilot flame is extinguished close shut-off valve prior to the vaporizer in the liquid line.
6. Now open vaporizer outlet valve and flare or allow attached equipment to consume remaining gas in the line.
7. After verifying the pressure in the lines are zero and no sources for ignition are present in the area, the vaporizer can now be disconnected.

At Algas-SDI, LLC, we are committed to continuous improvement and customer satisfaction. We hope that you will find this application report both useful and beneficial. If you have questions regarding this application report or have an improvement suggestion, please write or phone our customer service department.