



## Engineering Bulletin

Bulletin Number: DF 081808

### **Algas-SDI Direct Fired Vaporizer Bulletin & Operations & Maintenance Manual Addendum**

**Applicable models: 40/40H, 80/40H, 120/60H & 160H.**

**This bulletin will address the proper burner regulator settings, thermostat pressure settings for the main burner and provide proper adjustment procedures for both.**

In October 2002, Algas-SDI changed the burner configuration of all direct fired vaporizers to utilize a high efficiency burner that is clean burning and easier to service than the old style burners. These burners, used in combination with the adjustable thermostats on the vaporizers, have different pressure requirements than the old style burners. As a result the Operations & Maintenance Manual for the direct fired vaporizers will be revised to reflect the proper burner pressure settings and procedures as follows:

**Table 1**

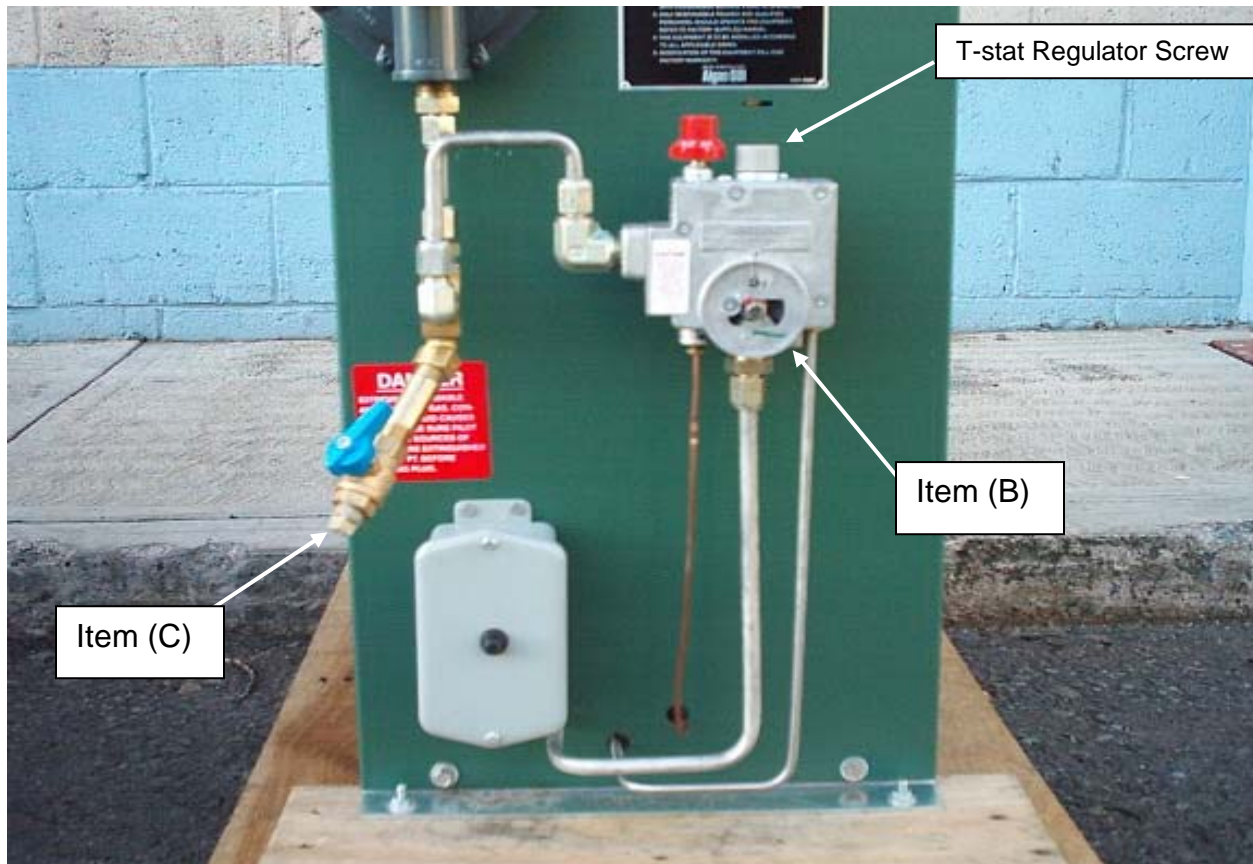
Vaporizer Model Number	Item C - Pressure at drip leg with burner on	Item B - Pressure at Thermostat port with burner on
40/40H	15" w.c.	6" w.c.
80/40H	15" w.c.	6" w.c.
120/60H	15" w.c.	12" w.c.
160H	17" w.c.	11.4" w.c.

**Burner regulator pressure adjustment procedure:**

1. Close the regulator supply valve and remove plug at the end of the drip leg to drain any heavy ends out of the drip leg after the burner regulator.
2. Connect an inches of water column monometer to the drip leg (Item C).
3. Rotate the thermostat knob to the "Pilot" position and depress the knob to light the pilot.
4. Rotate the thermostat to the "On" position, the burner should start.
5. Set the burner regulator to the appropriate pressure for your model of vaporizer as shown in Table 1 at the bottom of the drip leg (Item C) while the burner is running.
6. Close the regulator supply valve and allow the burner to run out of gas. Turn the thermostat to the "Off" position.
7. Remove the monometer from the drip leg (Item C) and re-install the plug. Open the regulator supply valve and check for leaks.

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### **Burner pressure adjustment procedure:**

1. With the thermostat off, remove the 1/8" plug and connect a monometer under the thermostat in the 1/8" pressure port (Item B).
2. Rotate the thermostat knob to the "Pilot" position and depress the knob to light the pilot.
3. Rotate the thermostat to the "On" position, the burner should start.
4. Adjust the thermostat regulator screw located under the gray cap on the thermostat to the appropriate pressure for your model of vaporizer as shown in Table 1. On some models the screw will be located beneath a green cap in the middle of the pilot/on/off dial on the thermostat.
5. Turn the thermostat to the "Off" position and replace the cap. Remove the monometer and re-install the 1/8" plug.
6. Restart the burner as indicated in steps 2 & 3 above and check for leaks at the 1/8" plug (Item B). The burner pressure is now appropriately set.

At Algas-SDI we are committed to continuous improvement and customer satisfaction. If you have any questions regarding this bulletin or have an improvement suggestion you would like to make, please write or phone Customer Service.