Solving Intermittent Lockouts Related To Insufficient Draft
- Puff Switch Operation -

Please refer to installation manual and burner manual for complete details.

Burner lockouts may occur from inadequate draft, a blocked flue, or failed power vent. Positive pressure over fire opens the normally closed puff switch, simulating a flame failure. Replacing the puff switch is not the solution; correcting any draft deficiencies will restore reliable operation.

Here's the test (Tech Manual p. D-2). *This assumes all burner diagnostics have been performed and all burner functions are normal and set to specification*:

In the first minute of operation, record the draft over fire. Note: The air box cover must be in place before testing. This test provides the most accurate information with a cold chimney.

If the over fire pressure is still zero or positive at the end of one minute of runtime, get back to basics – minimize draft leaks and infiltration (Tech Manual p. C-1,C-2):

1. Seal flue pipe to thimble, seal thimble to vertical flue.
2. Seal all flue pipe joints.
3. Tighten front and back boiler covers.
4. Minimize sharp bends, run as directly as possible from the breech to the thimble.
5. Consider increasing 4" to 5" flue pipe on EK1 models.
6. If draft problems persist, install a properly sized and code compliant chimney liner.