



SERVICE AND APPLICATION NOTES

ACC-14-01

January 20, 2014 (Revised March 25, 2015)

iHarmony® and SLP98 - Insufficient Zone Heating and Alarm Code 250 Issues

AFFECTED PRODUCT

iHarmony® and SLP98

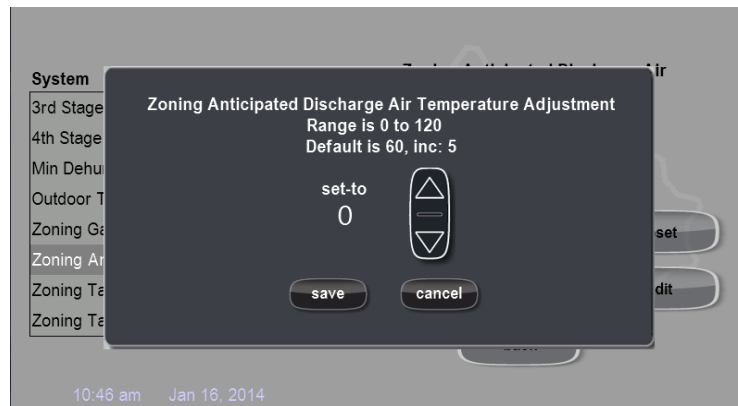
ISSUES

- Insufficient Heating:** The discharge air temperature sensor (DATS) will cause premature shut off of heating before reaching the desire zone temperature setpoint. When zoning is disable heating works correctly.
- Alarm 250:** An erroneous furnace limit trip (alarm 250) is active causing a lockout. The furnace will terminate heating operation, open all dampers (central mode) and turn the blower on to cool down the furnace. Condition may also overheat some zones.

RECOMMENDED FIELD SOLUTION — INSUFFICIENT HEATING

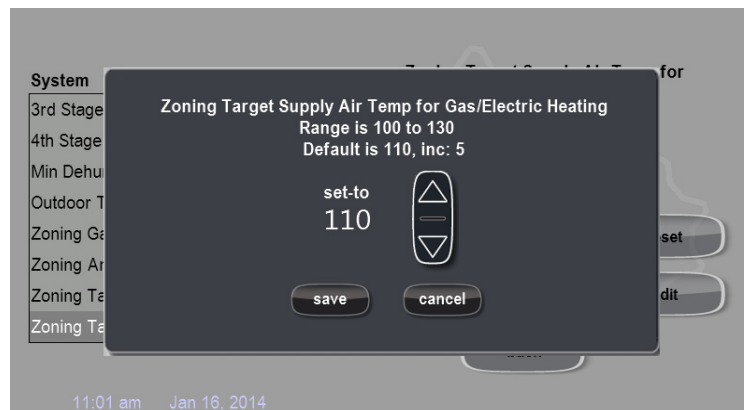
From the iComfort™ thermostat Installer setup screen, select **Equipment**. Under **System Devices**, select **System** and **edit**. Located the specific parameters mentioned as follows.

- Modified duration setting of the **Zoning Anticipated Discharge Air Temperature Adjustment** parameter. Suggest changing the default setting of **60** seconds to **0** seconds. The will force the thermostat to make calculations based on real-time temperatures.

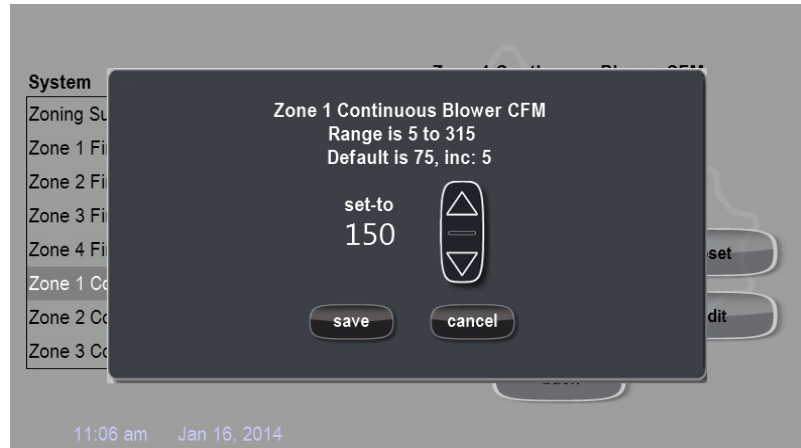


- Modified temperature setting of the **Zoning Target Supply Temp for Gas/Electric Heating** parameter. Suggest changing the default setting of **110** degrees Fahrenheit to a higher temperature to provide more heat.

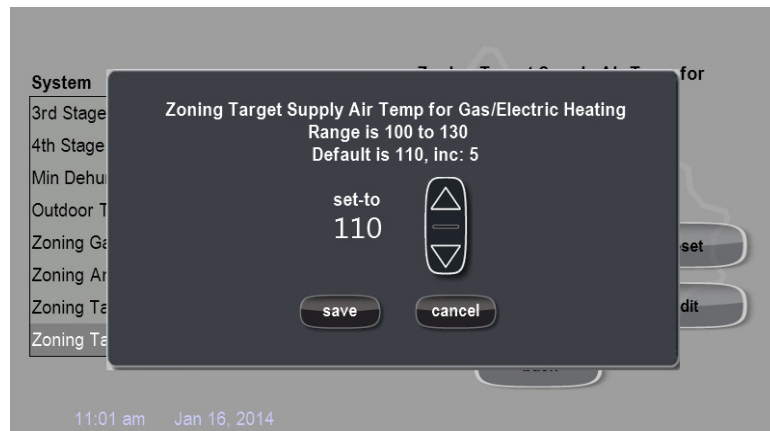
NOTE: Do not set temperature setting so high as it may cause a furnace limit trip (alarm 250).



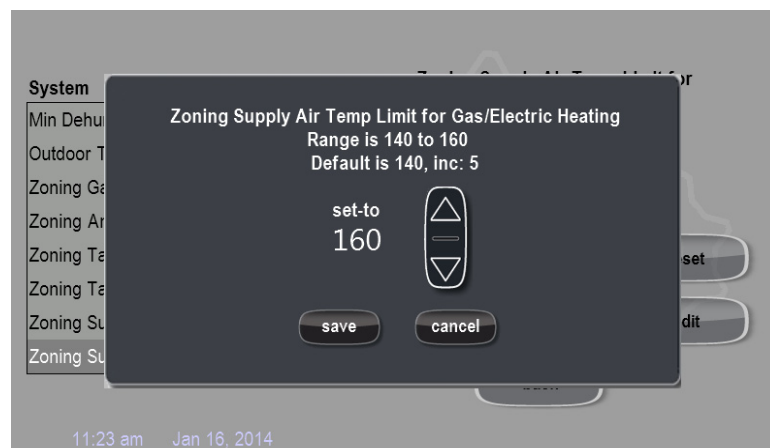
- Modified each zone CFM settings using the **Zone(s) Continuous Blower CFM** parameter. Suggest increasing CFM to each zone as much as possible without increasing air noise.



- If needed move the discharge air temperature sensor (DATS) further down stream and check the sensor's ohm/temperature values.
- Modified temperature setting of the **Zoning Target Supply Temp for Gas/Electric Heating** parameter. Suggest changing the default setting of **110** degrees Fahrenheit to a higher temperature to provide more heat.
NOTE: Do not set temperature setting so high as it may cause a furnace limit trip (alarm 250).



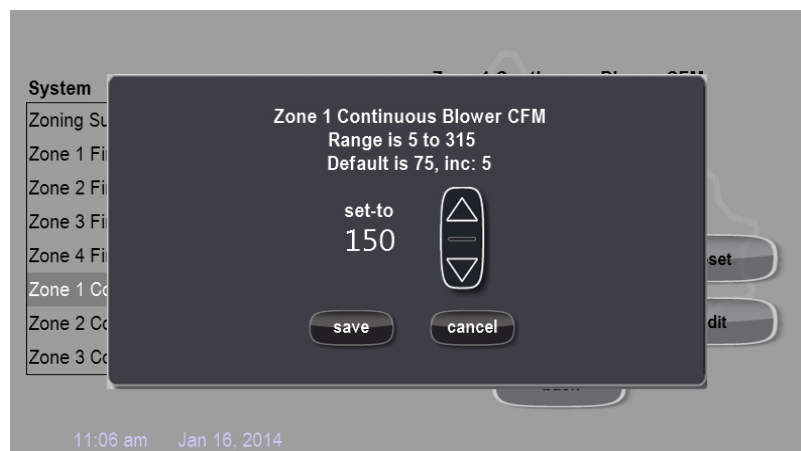
- Modified temperature setting of the **Zoning Supply Air Temp Limit for Gas/Electric Heating** parameter. Suggest changing the default setting of **140** degrees Fahrenheit to **160**.



- Modified temperature setting of the **Zoning Gas Heating DAT Cooldown Target** parameter. Suggest changing the default setting of **100** degrees Fahrenheit to **80** or as low as possible without blowing cold air..



- Modified each zone CFM settings using the **Zone(s) Continuous Blower CFM** parameter. Suggest increasing CFM to each zone as much as possible without increasing air noise.



- If needed move the discharge air temperature sensor (DATS) further down stream and check the sensor's ohm/temperature values.