



It's time to get comfortable.

Johnson Controls Unitary Products  
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**TO:** All York Distributor Service Managers  
All York Branch Service Managers  
All JCI-UPG Regional Service Managers  
All JCI-UPG Field Service Supervisors

**ST-007-15**  
**DATE: 04/27/15**

**PRODUCT:** ZH-ZJ-ZR-ZF120N20, S10-ZF-ZJ-ZHN20, T10-ZF-ZJN20  
10 Ton Cooling, 200 MBTUH Gas Heating

**SUBJECT:** High Limit Trip

Johnson Controls Unitary Products has received a few calls regarding the 10 ton package units with the 200,000 btuh gas heating section tripping the high limit. Usually this occurs in units installed in extreme cold climates, with a long run cycle. The high limit in these units was tested according to CSA - AGA standards and passed all testing.

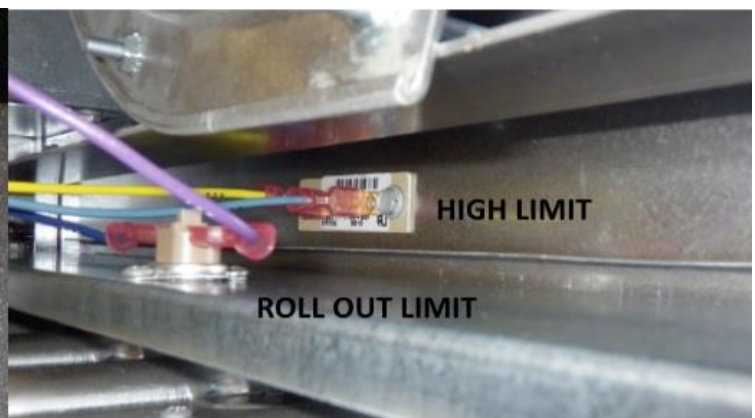
Johnson Controls Unitary Products visited jobsites with contractors to determine if the problem was related to ductwork or airflow. A field installed unit was returned to Norman plant validation. After many hours of testing, the problem could not be duplicated.

Engineering supplied our data to CSA-AGA requesting the use of the higher limit for service issues. CSA-AGA agreed to allow the use of a 160 limit in lieu of the factory installed 150 degree limit. This is a service solution, not a factory change. The units will continue to be produced with the current 150 degree limit. The 160 degree limit part number, S1-02531813000, is available from Source One.

In all cases, the unit application and operating parameters should be rechecked by pulling operational heat temperature rise verification before making any changes. Check duct installation making sure no deflections or restrictions are at the curb or duct - unit connection.

The high limit is located just above the burners. A 5/16" nut driver is required to remove the limit. To replace the limit:

- Turn off power to the unit
- Remove the wires attached to the limit
- Remove the two screws hold the limit in place
- Install the limit control with the "head" facing down.
- Reattach the two wires
- Energize the unit and check heating operation



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