SERVICE AND APPLICATION NOTES

100034
10/2021

Ultra-Low NOx Models

Last winter, we encountered reports of no light occurrences with our Ultra-Low NOx gas furnace models in the California market. Lennox has worked diligently to analyze furnaces and parts with these reported occurrences. After much effort, we feel that we have identified root causes and are implementing the following enhancements to address the no light occurrences:

1 - Gas Orifice: Burrs were identified in the gas orifice which restricted gas flow. Our supplier was notified, and new tooling/processes were implemented to ensure gas orifices are free from burrs.

- Units produced in May 2021 or after, serial number starting with 5921EXXXXX (where “21” is the year and “E” is the month built) and forward, have gas orifices manufactured and inspected following the new processes.
- Units built prior to this and exhibiting no light issues, we recommend replacing the gas orifice first.
- Kits containing the new orifices are set up with availability in October 2021. See below.

Capacity	80% Catalog Number	90% Catalog number
040	22P39	22P38
060	22P39	22P39
080	22P40	22P40
100	22P41	22P41

2 - Heat Shield: Deformation occurred from thermal expansion interfering with flame sensor performance. To allow for greater thermal expansion of the heat shield and mitigate the risk of warping due to interference caused by weld bead variation, the dimensions of the heat shield have been updated to add increased clearance.

- The new heat shield design was implemented in production beginning September 2021.
- The current heat shield kits were updated to include the new heat shields. There is no change to the catalog numbers. See table below.

Capacity	Catalog Number
040	15P57
060	15P63
080	15P66
100	15P73

3 - Updated trouble shooting is also available for both 80% and 90% furnaces. The updated trouble shooting includes the instructions to replace the gas orifice and has been clarified in other areas as well.

- For 80% ULN furnaces 508088-02
- For 90% ULN furnaces 508102-02

If you have any questions, please contact Lennox Technical Support at (800)453-6669 or contact your local FTC or TM.