

TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

Number: TIC2020-0017

Date: 11/09/2020

Title: 80% 110K BTU (21" cabinet) Furnace Nuisance Limit Trip

Product Category: Residential Furnaces

Products Affected:

<u>Carrier</u>	<u>Bryant</u>	<u>Payne</u>
58S(B/C)(0/1)A110E21	8(0,1)(0,1)SA60110E21	PG80ES(A,L)A60110C

Situation:

Field reports and Engineering testing have identified a potential operating issue when the affected furnaces (mentioned above) are installed in an up-flow application with a "N" style evaporative coil. The nuisance limit trip condition happens when the furnace is installed with a "left side return", "left side and bottom return" or "bottom return" and a N-coil is installed directly on the furnace. Poor duct work and high static systems also add to this nuisance operating situation.

Solution:

One of the following suggestions are required to eliminate the nuisance limit tripping condition:

- 1.) Install a KGADA0101ALL coil adapter (4.75" spacer or equivalent field-fabricated spacer) between the furnace and "N" style furnace coil when a left-side return, left side *and* bottom combination return or bottom return is needed for the installation.
- 2.) Use a right-side return with "N" Style furnace coil directly installed on furnace.
- 3.) Use an "A" style furnace coil installed directly on furnace.

Only trained and qualified personnel should design, install, repair and service HVAC systems and equipment. All national standards and safety codes must be followed when designing, installing, repairing and servicing HVAC systems and equipment. It is the responsibility of the Dealer to ensure local codes, standards, and ordinances are met.