TSB G-GN-OT-0074

Date: June 2, 2025

To: All Service and Parts Managers

From: Technical Services Department

Subject: **Non-A2L Communicating Furnace Over-The-Air Update**

This is an important Technical Service Bulletin to be carried out by trained and certified service technicians. The purpose of this bulletin is to inform our customers about control board changes to non-A2L communication furnaces.

Non-A2L Communicating Furnaces with Bluetooth® Technology (PCBKF109, PCBKF206 or PCBKF301):

With the existing firmware, when a Furnace Integration Kit for R-32 is installed with a non-A2L communicating furnace and a Communicating Thermostat, an R-32 refrigerant leak will activate its refrigerant leak detection system (RDS). The RDS will send a "G" signal to the furnace control board which will turn the gas heat off and then bring on the blower motor at maximum airflow. When an installed Heat Recovery Ventilator (HRV) or Energy Recovery Ventilator (ERV) energizes the ventilation signal (G signal to the furnace), the furnace control board will have the same response (turn off gas heating and run blower at maximum airflow). For HRV or ERV installs with a communicating thermostat, the ventilation G signal will turn off gas heating while active.

An Over-The-Air (OTA) update is available to change the "G" signal capabilities and the airflow for RDS mitigation to allow HRV or ERV units to function properly with the gas furnace. With the OTA update, an active "G" signal, while a communicating thermostat is present, will bring on the blower motor at the constant fan airflow setting instead of maximum airflow (if the system is not already running the blower). Therefore, a ventilation signal from an HRV or ERV will operate the blower motor at the constant fan airflow setting (if the system is not already running the blower) without turning off active heating or cooling operation.

In addition, with the OTA update, when the refrigerant leak detection system is activated by the Furnace Integration Kit, a G signal is applied to the furnace by the RDS, and the data signal to the communicating thermostat is lost for more than 10 seconds (these actions are all expected to happen when the Furnace Integration Kit is wired per the instruction manual), the furnace will turn the gas heat off and bring on the blower motor at the constant fan airflow setting. We recommend setting the constant fan airflow to at least 70% to prevent the indoor coil from icing up before the cooling call is deactivated.

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To change the Constant Fan Speed, use the *CoolCloud HVAC* app (version 2.0) or the push buttons on the furnace control board to navigate to FSd.

1) Ensure power is on to the furnace and the furnace control board is in IdL (Idle).
2) Disconnect the 4-pin connector (1, 2, R, C) from the furnace control board.
3) Use the *CoolCloud HVAC* app or the push buttons on the furnace control board to navigate to FSd and select.
4) Change the factory fan speed setting of 30% to at least 70%.
5) Confirm new selection and exit FSd back to IdL.
6) Reconnect the 4-pin connector to the furnace control board.
7) After the communicating smartstat is active in the system, confirm the constant fan speed is operating at the new fan speed setting when a "G" signal is applied (fan demand coming from the smartstat will still have higher priority).

Condensate Switch Wiring with a Furnace Integration Kit or R-32 Compliant Furnace Control Board:

Without the Over-The-Air (OTA) update, if a condensate switch is wired through the AUX terminals on the furnace control board, an AUX alarm for a condensate switch error would not allow the blower motor to run during a refrigerant leak mitigation. The condensate switch would need to be wired between the "R" terminal on the control board and the communicating thermostat (see Figure 1).

This OTA update will also allow the blower motor to run during a refrigerant leak mitigation even when the condensate switch error is activated on the furnace board's AUX terminals. With the OTA update the float switch can be wired through the AUX terminals on the furnace control board (see Figure 2). If an AUX Alarm for a condensate switch error occurs along with a refrigerant leak mitigation, a "G" call from the Furnace Integration Kit will enable the blower motor to run at the constant fan airflow setting.
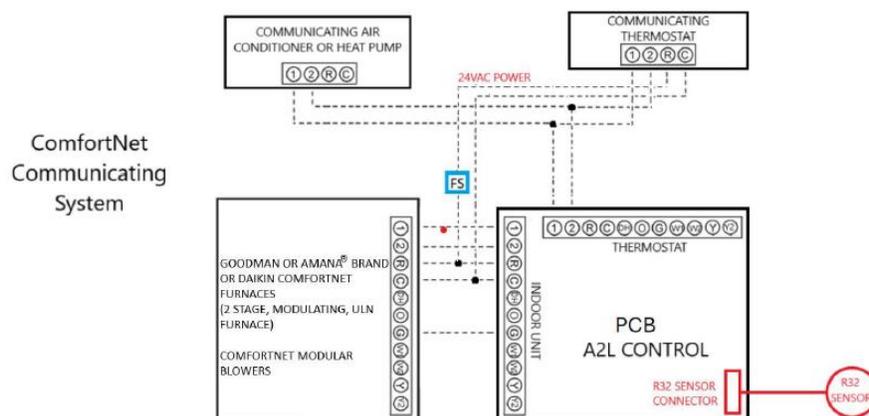

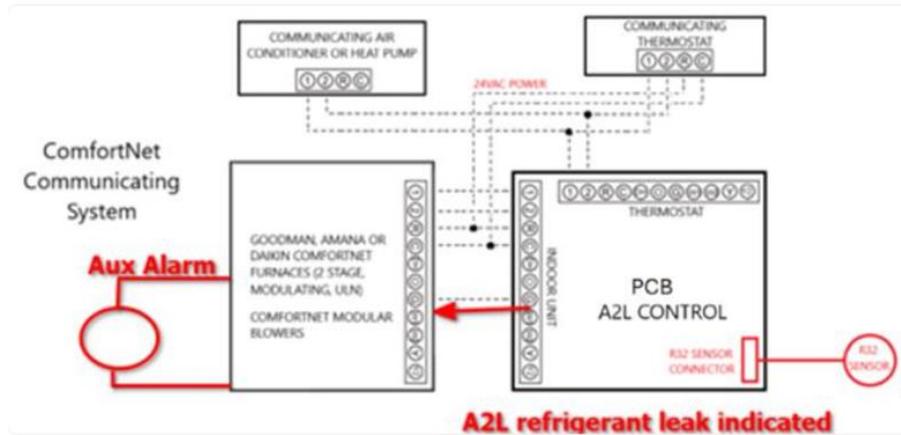Figure 1
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Figure 2

Procedure to Configure 2-Stage Communicating Gas Furnace Airflow:

1) Ensure power is on to the furnace and the furnace control board is in IdL (Idle).
2) Disconnect the 4-pin connector (1, 2, R, C) from the furnace control board.
3) Connect the *CoolCloud* App to the system and adjust the Airflow Percentage for High Stage Gas Heat (GAF) menu as desired (this sets the airflow for high stage gas heat)
4) Adjust the Airflow Percentage for Low Stage Gas Heat (9St) menu as desired (this determines how much the airflow is reduced, compared to the high stage airflow, when the system runs in low stage gas heat mode)
5) Adjust the Gas Heat Airflow Trim (9tF) menu as desired (this will apply additional airflow trim to both high and low stage airflows)
6) Close the Phone Application and use the communicating thermostat to control the system. No need to make any other setting changes through the thermostat.

Procedure to Configure Modulating Gas Furnace Airflow

1) Ensure power is on to the furnace and the furnace control board is in IdL (Idle).
2) Disconnect the 4-pin connector (1, 2, R, C) from the furnace control board.
3) Connect the *CoolCloud* App to the system and adjust the Gas Heat Airflow Trim (9tF) menu as desired. There are no additional menus to adjust the gas heat airflow.
4) Close the Phone Application and use the communicating thermostat to control the system. No need to make any other setting changes through the thermostat.

If you have technical questions, please call 1-855-DAIKIN1, option 2 then option 1, or e-mail TechnicalServicesDaikin@daikincomfort.com.