

# TECHNICAL INFORMATION COMMUNICATION



## Quality and Continuous Improvement

**Number: TIC2020-0015**

**Date: 09/25/2020**

**Title: Software 3.60 Release**

**Product Category: Residential Communicating Systems**

### Products Affected:

Residential Communicating Systems –B touch controls only

<u>Carrier</u>	<u>Bryant</u>
SYSTXCCITC01-B	SYSTXBBECC01-B
SYSTXCCWIC01-B	SYSTXBBWEC01-B
SYSTXCCICF01-B	SYSTXBBECF01-B
SYSTXCCWIF01-B	SYSTBXBWEF01-B

### Situation

A new software update is available for OTA (Over the Air) update.

**Version 3.60** software includes the following updates to the Series - B UI control

### **Major updates:**

- Some users experienced 3.40 OTA update leading to the screen going blank; wall control then recovers to v3.00 upon forced reboot. *The primary cause has been corrected; but additional analysis is in progress to ensure this will not happen in the future.*

### **Minor updates:**

- False G-terminal Alerts could be triggered during learning process check, if the system control reads the status inputs from furnace and fancoil before they have been set properly.
- Fix provided in system control; G-terminal status is updated only after reading the control inputs status event from indoor control boards.

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- Revised the Capacity Limiting logic to allow for duty cycling the Carrier® Infinity® System and Bryant® Evolution™ Extreme 24/26 to emulate a capacity lower than the set minimum.
- Resolved issue where cooling demand took a long time (~30 minutes) to start.
- Improved Fault Code handling for Carrier® Infinity® System and Bryant® Evolution™ Extreme 24/26
  - Fault Codes with differing expansion codes are now considered to be different codes and show up as separate entries in the Last 10 Events screen.
  - Now storing fault description messages in permanent memory to prevent incorrect messages displayed after a wall control reset.
  - If an active 127-EQUIPMENT UPDATE FAILURE fault occurs, it will be cleared after the next successful firmware update.
  - Fixes for mismatched fault code and fault description combinations in the Last 10 Events screen.
  - System control software has been updated to handle empty fault strings on status screens and refrigerant charging screens.
- The defrost on Carrier® Infinity® System and Bryant® Evolution™ Extreme 24/26 can run longer than 15 mins and will not cause a system malfunction so that heat demand could run afterwards.
- Removed warning for LLV open on Charging screen.
- Help text for cycle counters and run times screens are added for both Air Conditioner and Heat Pump
- Utility Curtailment feature when active will get recorded in Last 10 events screen
- Refrigerant charging - pump down statuses were incorrectly displayed. Changes in pumpdown state typically take 5 seconds to reflect the actual state from the outdoor unit; in rapid state change from the Carrier® Infinity® System and Bryant® Evolution™ Extreme 24/26, It can take 10 seconds to reflect that state change.
- Fixes for range and toggle button related issues for capacity limiting screens have been made in the system control.
- Corrections to Capacity Limiting minimum demand calculations; now applies the minimum demand limit as a part of the capacity limiting feature as opposed to the previous behavior where a minimum would not be imposed.

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## Version 3.40 (June 2020)

- Fixed installation (system learning) issue in which the system control did not recognize the 2 Ton versions of the AC/HP equipment models, in combination with the FE4ANF002 fan coil: Corrected with Version 3.01 patch
- Energy Estimate calculation issues, causing. Energy estimates to appear to be much higher than expected.
- The system control could update the outdoor unit to the same software version if the SD card was not removed after a successful update.
  - Added a periodic check of the SD card contents to see if the files are still valid for update.
- Service Valve Subcool Value – changed to display accurate value.
- Operating status on the home screen is now aligned with the actual equipment operation.
- Blower RPM now shows actual RPM value when the IDU blower is operating.
- During system installation (learning), system control did not correctly discover the 24VNA624 ODU + FE4ANB005 fan coil combination.
- During checkout mode, received message "Info 104 - Low Indoor Temp Zone 2 Aux Heat" on HP's and AC's, cooling and heating mode. Message updated
- Discharge pressure is shown as "----" in AC Status/HP Status screen when the Discharge pressure is valid.
- When running heat demand for fan coil and Infinity / Extreme HP combination, the wall control was showing "HP + Electric Heat" even when fan coil is being used to fulfill the demand.
- System control was showing improper stages and empty values on the "Cycle Counters" and "Lifetime Hours" screens for a 1 Stage ULN furnace.
- Demand calculation not being sent to Infinity / Extreme HP/AC.
- Outside Air Temperature (OAT) value is always -12 F and not able to change in capacity limiting Heating screen.
- Update equipment run-time parameters in the checkout mode.

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## **Version 3.01 (June 2020)**

Version 3.01 software includes the following updates to the Series B Carrier® Infinity® System and Bryant® Evolution® Connex™ Control:

Major updates:

- Fixed installation (system learning) issue in which the system control did not recognize the 2 Ton versions of the following AC/HP equipment models, in combination with the FE4ANF002 fan coil:
  - Carrier® Infinity® and Bryant® Evolution™ Extreme 26 Air Conditioner
  - Carrier® Infinity® and Bryant® Evolution™ Extreme 24 Heat Pump

## **Version 3.00 (April 2020)**

Version 3.00 software includes the following updates to the Series B Carrier® Infinity® System and Bryant® Evolution® Connex™ Control:

Major updates:

- Supports new AC/HP equipment models:
  - Carrier® Infinity® System and Bryant® Evolution™ Extreme 26 Air Conditioner
  - Carrier® Infinity® System and Bryant® Evolution™ Extreme 24 Heat Pump
- Key features for new AC/HP equipment:
  - System Integration
  - Firmware Update of PCM & VFD via BING (OTA & SD Card)
  - Enhanced Fault Communication
  - Enhanced HP/AC Status Screen
  - Refrigerant Charging Update
  - Parameter Data Logging
- Improvements to Wi-Fi and connectivity long-term stability.
- Fixed various minor faults
  - Energy tracking and ENERGY STAR improvements
  - Minor GUI corrections and improvements
  - Fixed Geo HP integration configuration
- Multiple causes of Reboots found and corrected.

Updates are released for Over-The-Air update first, then posted to HVACPartners and the consumer websites later.

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