

# TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

**Number: TIC2020-0011**

**Date: 08/17/2020**

**Title: Software PCM V4.00 Release**

**Product Category: Residential Communicating “Outdoor” Systems**

## Products Affected:

<u>Carrier</u>	<u>Bryant</u>
24VNA624A0030050	186CNV024000FAAA
24VNA636A0030050	186CNV036000FAAA
24VNA648A0030050	186CNV048000FAAA
24VNA660A0030040	186CNV060000EAAA
25VNA424A0030050	284ANV024000FAAA
25VNA436A0030050	284ANV036000FAAA
25VNA448A0030050	284ANV048000FAAA
25VNA460A0030040	284ANV060000EAAA

## Situation

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

***Note: For best performance, the Wall Control Needs be upgraded to v3.40 prior to the PCM v4.00 software upgrade.***

Version 4.00 software includes the following updates for the “Outdoor Unit’s PCM Board”:

## Revision History

### **Version 4.00 (August 2020)**

Version 4.00 software includes the following updates to the Carrier Infinity® 24 Heat Pump / Carrier Infinity® 26 Air Conditioner and Bryant Evolution™ Extreme 24 Heat Pump / Bryant Evolution™ Extreme 26 Air Conditioning controls:

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.

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## Updates:

- Implemented (Silencer System II™).
- Enhanced matrix display and STATUS LED display.
- Implemented compressor reverse wiring diagnostic and modified various diagnostic messages for consistency with service manual.
- Enhanced logic for model plug discrimination.
- Enhanced cooling capacity and indoor airflow to improve dehumidification control.
- Enhanced VFD temperature control and diagnostic.
- Modified 5 EXV diagnostics to be local.
- Allow reprogramming of the VFD in presence of various VFD active diagnostics.

## Fixes:

- Reduced opportunity for high pressure during furnace transition to heating.
- Fixed defect of shutdown on 3T HP before or after defrost on code 85-xx or 82-xx
- Fixed defect related to loss of suction superheat at subzero ambient temperature
- Fixed defect where (83-57) "VFD Compressor Lockout - Current 1" was erroneously set

## Version 3.00 (April 2020)

Version 3.00 software includes the following updates to the Carrier Infinity® 24 Heat Pump / Carrier Infinity® 26 Air Conditioner and Bryant Evolution™ Extreme 24 Heat Pump / Bryant Evolution™ Extreme 26 Air Conditioning controls:

## Updates:

- Enhanced communication stability with system control.
- Enhanced the reporting of diagnostic codes to system control and service technician mobile application.
- Enhanced reliability of EXV positioning.

## Fixes:

- Reduced false diagnostic codes and adjusted recovery time for several diagnostics.
- Fixed defect for compressor speed control with low suction pressure during startup
- Fixed defect for outdoor fan slow ramp during startup/shutdown, as well as the fan starting after the compressor
- Fixed defect for stuck in startup compressor speed, and stuck in suction pressure control after defrost
- Fixed defect preventing VFD reprogramming in fault conditions.
- Fixed defect regarding reprogramming "serial flash erase error"
- Fixed defects for charging pump down, evacuation, and sub-cooling
- Fixed defect in incorrect fan speed control when outside temperature is above 115°F

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

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