

# TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

**Number:** TIC 2020-0012

**Date:** 8/20/2020

**Title:** Modulating Furnace Revised constant fan airflow

**Product Category:** Residential Furnaces

## **Products Affected:**

Models:

Carrier

Bryant

59MN7B060C171114

987MB42060C17A-A

59MN7B080C171114

987MB42080C17A-A

## **Situation:**

Auditing and follow up testing have revealed an error in the original development testing and resultant Fan Efficiency Ratings (FER) calculations on the affected units listed above.

## **Technical Information:**

To allow for an acceptable margin with FER calculations, and to ensure the affected furnaces meet FER requirements, a modification to the furnace control software, reducing the maximum allowable constant fan airflow, is being implemented. The new control software will be introduced to production units starting the week of August 17<sup>th</sup>, 2020 (3420A serial number).

The revised furnace control software will now limit constant fan airflows on the 60K input units to a maximum of 1050CFM.

The revised furnace control software will now limit constant fan airflows on the 80K input units to a maximum of 875CFM.

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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Unit Size: 060-14	Clg/CF Switch settings			Airflow Setting	
Clg Switches	SW2-3	SW2-2	SW2-1	Original	NEW
Cont. Fan Default:	OFF	OFF	OFF	525	525
Continuous Fan Airflow (SW3)	OFF	OFF	ON	525	525
	OFF	ON	OFF	700	700
	OFF	ON	ON	875	875
	ON	OFF	OFF	1050	1050
	ON	OFF	ON	<del>1225</del>	1050
	ON	ON	OFF	<del>1400</del>	1050
	ON	ON	ON	<del>1400</del>	1050
Unit Size: 080-14	Clg/CF Switch settings			Airflow Setting	
CF Switches	SW3-3	SW3-2	SW3-1	Original	NEW
Cont. Fan Default:	OFF	OFF	OFF	525	525
Continuous Fan Airflow (SW3)	OFF	OFF	ON	525	525
	OFF	ON	OFF	700	700
	OFF	ON	ON	875	875
	ON	OFF	OFF	<del>1050</del>	875
	ON	OFF	ON	<del>1225</del>	875
	ON	ON	OFF	<del>1400</del>	875
	ON	ON	ON	<del>1400</del>	875

## Special Notes:

The furnace control software will be revised from V04 to V05.  
 The current furnace control production part number (HK42FZ069) will remain unchanged.  
 The current furnace control service part number (HK42FZ090) will remain unchanged.

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