

TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

Number: TIC2025-0012

Date: 4/24/2025

Title: Modulating Furnace Airflow Updates

Product Category: Residential Gas Furnaces

Products Affected:

Modulating Gas Furnaces – (F,G)CMN Major Series B

Situation:

Carrier has received increased reporting of nuisance limit trips and limit lockouts with our Major Series "B" modulating furnaces. Internal testing results indicate that airflows produced while operating at intermediate inputs (50 – 70% modulation rate) result in the highest temperature rise, creating an increased likelihood of limit trips.

Solution:

Carrier Engineering has updated the airflows delivered while operating in the intermediate input ranges of operation. The intermediate airflow values have been increased, reducing temp-rise through the furnace, and reducing the likelihood of nuisance limit trips. The updated intermediate airflow values were released April 23, 2025, into the FAST Mobile Tech App. version 6.133.7.

Intermediate airflow value and recipe version changes are listed below:

INTERMEDIATE (65%) AIRFLOWS								
Unit size	60K - 3.5T (17")		80K - 3.5T (17")		100K - 5.5T (21")		120K - 5.5T (24")	
Recipe	606		608		610		611	
Recipe version	6	7	6	7	6	7	7	8
Eff2 Airflow (CFM)	521.0	640.0	728.0	930.0	909.0	1090.0	1067.0	1375.0
Eff1 Airflow (CFM)	470.0	590.0	620.0	840.0	825.0	1000.0	970.0	1250.0
Cmf2 Airflow (CFM)	436.0	520.0	590.0	780.0	755.0	910.0	889.0	1100.0
Cmf1 Airflow (CFM)	408.0	470.0	563.0	710.0	704.0	825.0	831.0	1000.0

Indicates new values

Note: The 80K – 5T (21") model was previously updated with higher airflow values in October of 2024, when transitioned from recipe version 5 to recipe version 6

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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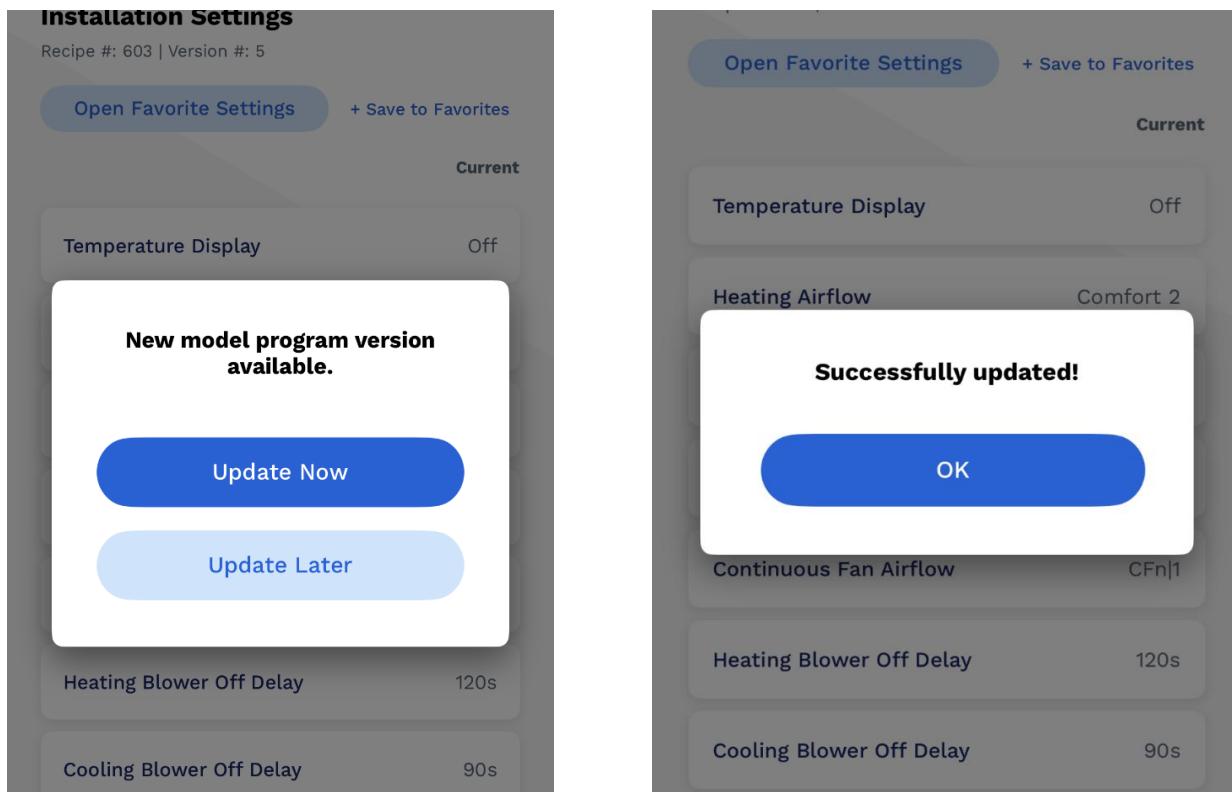
Field Required Actions:

The updated airflow values for the furnace control recipe are contained within the FAST Mobile Tech APP. As such, the dealer/technician **MUST** have version 6.133.7 (or higher) of the FAST Mobile Tech APP to update the furnace control and utilize the new, higher airflow values.

To update airflow values, a dealer/technician will enter the “Installer Setup” menu and connect to the furnace control via NFC.

When the connection is made, a pop-up will indicate if a newer version of the recipe is available.

After selecting the “Update Now” button, the technician will be prompted to “scan” the new recipe version into the furnace control. An additional popup will indicate a successful update.



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