

Product Bulletin

Date	Subject	Department
5/6/2025	Crossover New Ratings	Product Marketing
Bulletin Number	Product Model Number(s)	Author Name/Email
PB-25-33	D5CUHA /D5CURA with ICP Fan Coils and Furnaces	Manish Chhabra manish.chhabra@carrier.com

New ICP Crossover D5CUHA & D5CURA AHRI System Ratings

Background

In response to customer feedback regarding key AHRI-rated combinations and lower-than-expected performance for R-454B Crossover systems, changes have been made to the condenser software to improve the efficiency of equipment.

What's Changing

To address these concerns and deliver better value to our partners and end-users, we have made enhancements, resulting in the following updates:

- **Updated compressor algorithm:** Optimized for better performance and broader compatibility.
- **New AHRI Ratings:** An **improvement in performance** across most combinations
- **Expanded Combinations:** Additional furnace and fan coil pairings will be AHRI-certified.

What you will see on AHRI:

The previously released ratings will remain active, and the new ratings will be an addition to the existing ones, shown below. As a result, some system combinations may have two ratings: one from the **original** release and one from the updated ratings with the **"TIC2025-0016"** identifier.

Systems with the updated performance will feature a new AHRI listing that includes an identifier **"TIC2025-0016"** appended to the outdoor unit's AHRI designation. This indicates that the rating is achieved following procedures outlined in the upcoming **Technical Information Communication (TIC)**.

	Outdoor	Indoor	Furnace	SEER2	EER2	Heating Capacity	HSPF2	COP at 5F	CCHP Cap Ratio%
216759291	D5CUHAH30AAK	EA* 5X37M21A*	F97VTN1002120A	15.2	9.5	34400	8.5	1.75	88%
NEW	D5CUHAH30AAK+TIC2025-0016	EA* 5X37M21A*	F97VTN1002120A	16.5	10	36000	9	1.96	89%
None	D5CUHAH30AAK	ESH5X30M12A*	F97VTN1002120A						
NEW	D5CUHAH30AAK+TIC2025-0016	ESH5X30M12A*	F97VTN1002120A	15.2	9.5	37400	8.5	1.78	88%
None	D5CUHAH30AAK	FMA5X30**AL*							
NEW	D5CUHAH30AAK+TIC2025-0016	FMA5X30**AL*		16.5	10.5	37200	9	1.92	86%

Figure 1 Example of existing, improved, and new system ratings for D5CUHA - 30k.

New AHRI ratings for the D5CUHA models (18, 30, 36, 48, and 60) will be published next week, followed by the release of ratings for the D5CUHA 24k model at a later date. Additional updates for the D5CURA series will be provided in a subsequent version of this bulletin.

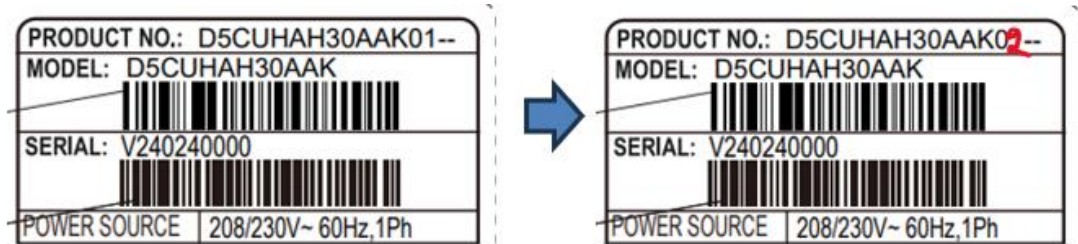
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How to Achieve the New Ratings

There are two ways to access the improved system ratings:

1. Factory-Installed Board (Updated Product Number)

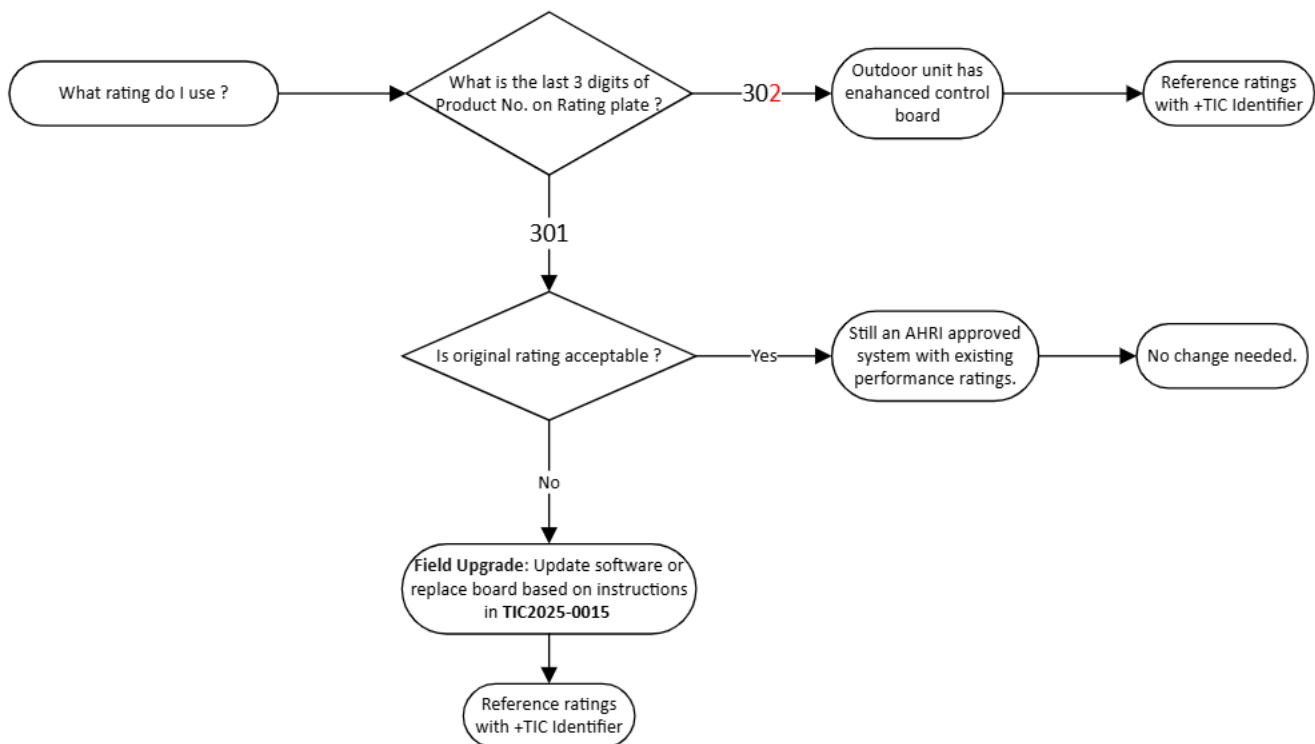
- No change to the model number
- Revised product number, with a “-02” suffix to indicate the enhanced control board.
- Example:
 - ❖ Model No. D5CUHAH30AAK
 - ❖ Product No. D5CUHAH30AAK01 → **New** Product No. D5CUHAH30AAK**02**



- Serial number cutoffs will be shared in a future update to this bulletin.

2. Field Upgrade

- Dealers and contractors can achieve the improved performance by either flashing the existing control board using tools we will provide or replacing the existing board during install.
- Detailed instructions for field updates will be included in the **Technical Information Communication (TIC)**.
- No rating plate change is required for field-modified units.



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Implementation Timing

Production of units with the updated board and improved performance will begin this month. We will share the serial number cut-off information as soon as it becomes available. The associated **Technical Information Communication (TIC)**, including all implementation details, will be released by May 19th, 2025.

Key Takeaways

- The equipment **model number remains unchanged**.
- Updated ratings only apply if either the new board is factory-installed or the existing board is updated per bulletin instructions.
- The “**+TIC2025-0016**” **rating** will only be applicable when these conditions are met.
- Full documentation will be available in the upcoming updates to this **Product bulletin and Technical Information Communication (TIC)**.

We’re confident these updates will strengthen your product offering and help drive customer satisfaction. If you have any questions or need support planning your inventory transition, please don’t hesitate to reach out to your account manager.

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Version	Date Published	Changes Made
V1	5/6/2025	--