

DOE 2017

WHAT RETAILERS NEED TO KNOW -

And how Hussmann is meeting and out-performing the regulatory requirements.

OVERVIEW

Effective March 27, 2017, new Department of Energy (DOE) regulations will greatly reduce the energy allowance for remote and self-contained display cases. In some instances, reductions are greater than 70% compared to current DOE 2012 requirements.

The good news is that Hussmann has been working hard to ensure compliance. All refrigerated cases Hussmann manufactures for the US and Canada after the effective date will meet or out-perform the new standard.

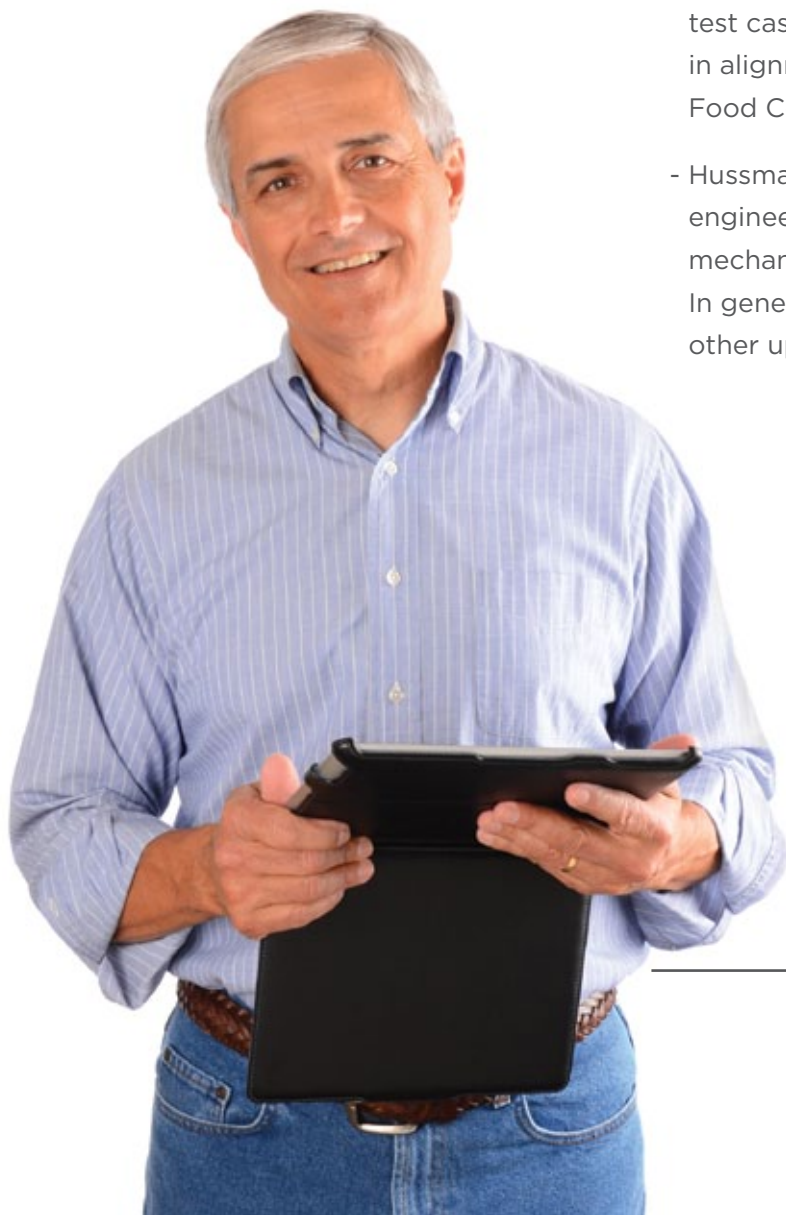
Hussmann's investment in this effort has been significant. We have not only improved lighting, fan motor and coil performance, we have also re-engineered models for much greater energy efficiency.

RETAILERS

What You Need to Know About DOE 2017.

The display case manufacturer, not the retailer, is responsible for DOE 2017 compliance.

- These regulations apply only to the sale of new display cases. No change will be required to cases manufactured prior to March 27, 2017.
- All Hussmann display cases sold in the US and Canada after March 27, 2017 will comply with DOE regulations. Many Hussmann cases will be far more efficient than required.
- Hussmann display case temperature performance standards will not change. We will continue to test cases to both AHRI and NSF standards and in alignment with DOE regulations and the FDA Food Code.
- Hussmann will be glad to assist with any engineering changes or changes to other store mechanical systems that may be required. In general, these changes should be similar to other upgrades to more efficient equipment.



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- There is no requirement to change the way pre-DOE 2017 equipment is serviced.
 - Retailers may continue to select open cases or cases with doors at their discretion. Each case must comply within its relevant category. Compliance is the responsibility of the manufacturer.
 - There may be some changes to energy rebate availability following DOE 2017. Hussmann's comprehensive Rebate Management Service can help retailers track these changes, identify rebate opportunities and capture all available rebate dollars with each project.



IN GENERAL, THIS NEW DOE REGULATION SHOULD BE SEAMLESS FOR MOST RETAILERS USING HUSSMANN EQUIPMENT.

We have made a significant investment to ensure compliance throughout our product line. We will be glad to work with you to answer any questions or to assist in any way needed.

TEMPERATURE

Impact on Case Temperature Performance – You Don't Need to Sacrifice Food Quality.

Retailers deeply care about food freshness, quality and safety. As a result, Hussmann is committed to providing optimized temperature performance in all our display cases. This will not change with DOE 2017. We ensure temperature performance by testing our medium temperature cases to both AHRI and NSF 7 standards. We have tested to these standards for many years and will continue to do so.

AHRI 1200

- Provide energy ratings, not temperature performance standards. Should only be used to rate energy consumption.
- Specify an average overall case temperature, without testing for hot or cold spots that can significantly exceed the optimal range and affect food quality and safety.

NSF 7

- Sets product temperature requirements in alignment with the FDA Food Code.
- NSF 7 temperature standards are only required for self-contained display cases.
- Hussmann tests all medium temperature cases to this standard, even though there is no NSF requirement for the product temperature of remote cases. This helps ensure that Hussmann case temperatures conform to the FDA food code, and it helps retailers protect the quality and freshness of perishable foods.



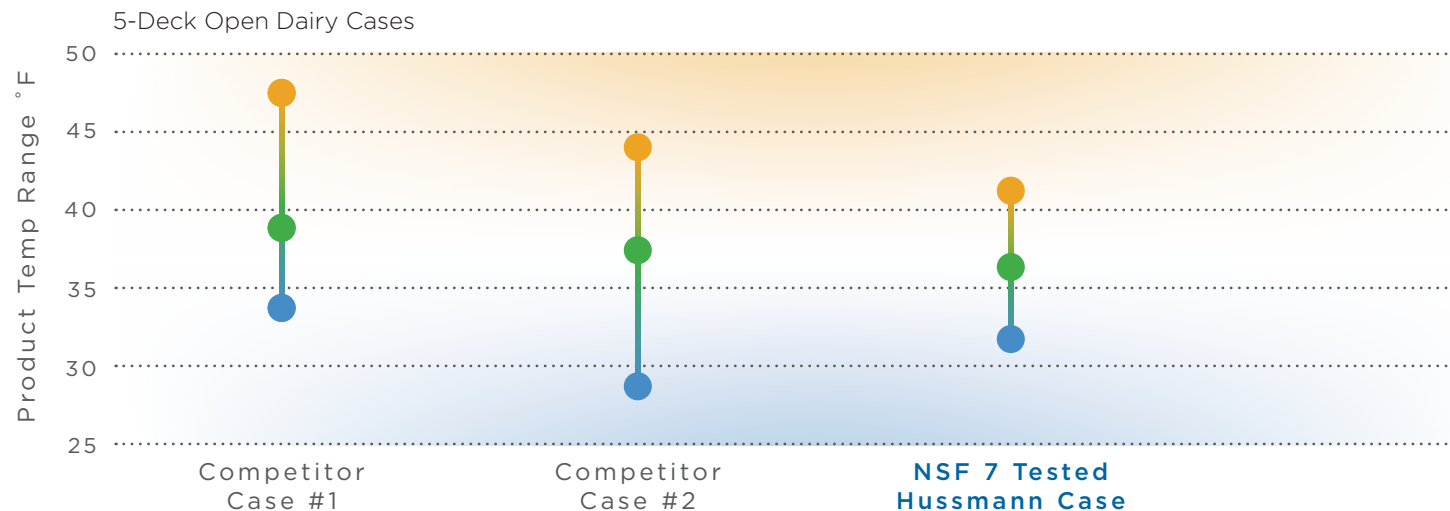
AHRI 1200 vs. NSF 7 Specifications

As It Relates to DOE and Food Safety

	A H R I 1 2 0 0	N S F 7
... Required testing for DOE?	✓	✗
... Acceptable for FDA compliance?	✗	✓
... Specifies Warmest Product Temp (Avg)	✗	✓
... Specifies Warmest Product Temp (Max.)	✗	✓
... Maintains Product Temperatures in “Food Safe Zone” at All Times	✗	✓

Product Temperature Examples

With Testing Based on Published Methods



For retailers, both energy performance and food safety are critically important. Hussmann medium temperature cases are tested to both the AHRI and NSF standards. This helps keep products within the ideal temperature range which we call the “food safe zone”. You don’t need to sacrifice food quality to get DOE 2017 compliant cases.

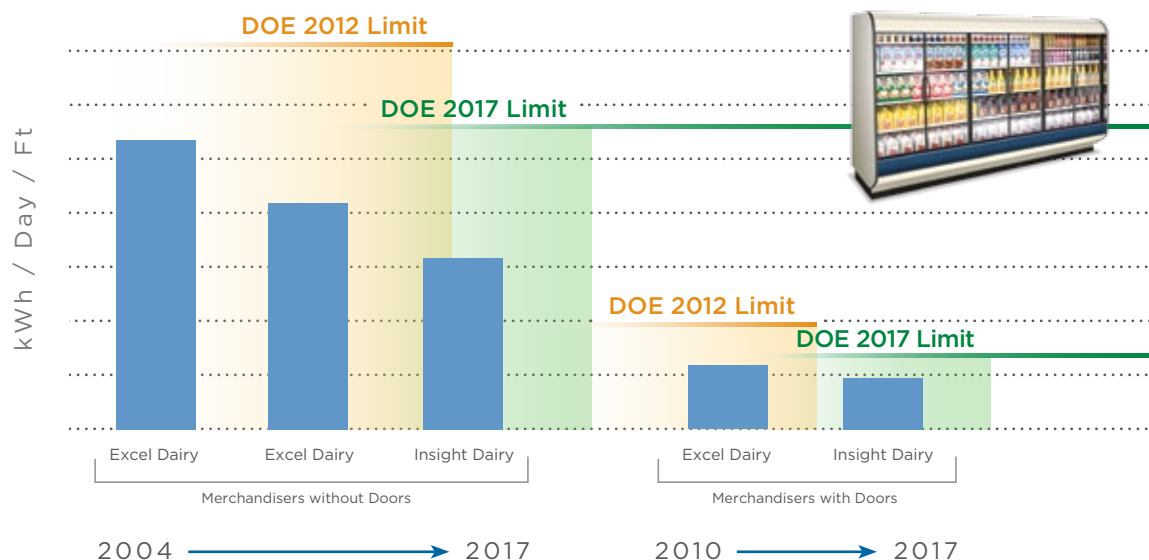
ENERGY EFFICIENCY

How Hussmann Out-Performs DOE 2017 Regulations Regarding Energy Efficiency.

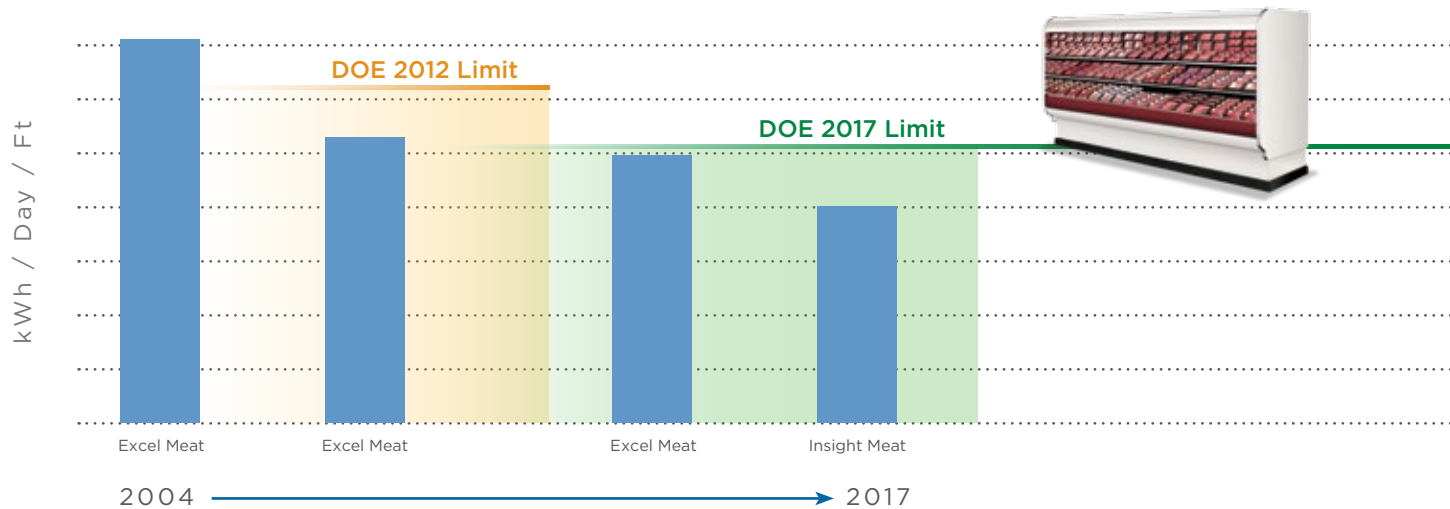
Energy is a major expense for food retailers. In many instances, Hussmann display cases are far more efficient than DOE 2017 requires. We achieve this while maintaining optimal temperature performance.

Shown here and on the facing page are examples of the energy reductions Hussmann has achieved in the past few years and how these widely used Hussmann models compare to DOE requirements.

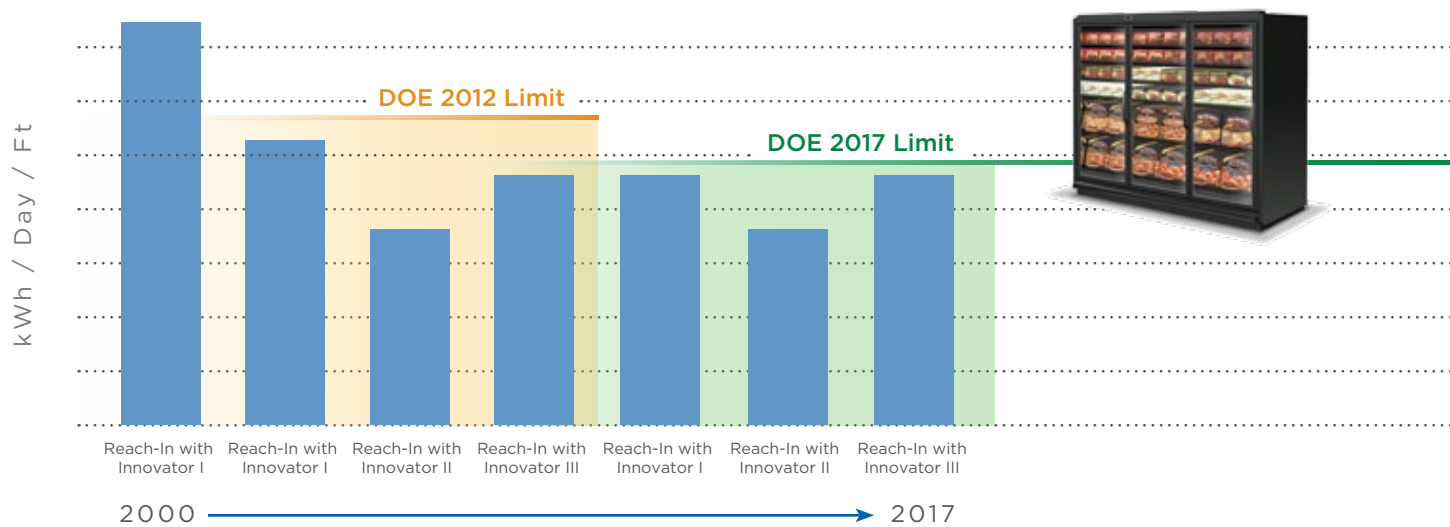
History Graph of Multi-Deck Dairy Energy



History Graph of Multi-Deck Meat Energy



History Graph of Reach-In Energy



The good news is that retailers should see a **total store case energy savings of 12-15%*** when using only Hussmann DOE 2017 compliant cases.

* These savings estimates are based on a typical 60,000 sq. ft. store with Hussmann remote cases only and an energy cost of \$0.10 / kWh.

Little Change to Husmann Display Case Availability.

Regarding Husmann Self-Contained Cases:

Most models will comply with the new standard and will continue to be available. A small number of Husmann self-contained models are being discontinued. Some of these will be replaced soon with new, improved models.

Regarding Husmann Remote Cases:

Virtually all models will continue to be available after the DOE 2017 effectivity date. Some available configurations will include more efficient lights, fan motors, coils and/or overall case performance. Only a few models are being discontinued and replaced by similar models.

Most Husmann customers should see little to no change in the availability of models they order. Some available options may change. Consult your Husmann sales representative with any questions about configuration or case availability.

You can find more information about both DOE and EPA regulations on our web site at this location:
<http://www.husmann.com/en/NewsArticles/Overview-of-DOE-EPA-Regulations-S-1-18-2017.pdf>.

Please contact your Husmann Representative with any questions you may have.



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