

DOE Changes Result in Zero Zone Component Changes

In 2014, the Department of Energy (DOE) changed the rules for calculating the allowable energy use for our equipment. This change resulted in a reduction in our allowable energy.

To meet the DOE requirements, we have modified the designs of our product and eliminated some product options.

Product lines affected will be:

- RVZC30
- RVZC3067
- RVZC30T2

Products that will no longer be available and their replacements are:

- 101 and LEF Frames on low temp cases will be replaced with **LEF2 Frames**.
- ELM-HG Doors on low temp cases will be replaced with **ELM-HG2 Doors**.
- 101 Doors on medium temp cases will be discontinued.
- **Anti-Sweat controls must be included with all Dual Temp cases.**

The new LEF2 frame exhibits equal or better performance and an energy savings via a combination of performance optimization to the LEF frame, and the addition of insulation and thermal breaks not found in the 101 standard energy frame.

The new ELM-HG2 door has been optimized by effectively redistributing heat which results in reduced energy and similar performance to an ELM-HG door with a 101 frame.

Reminder: The FRAME is the component that is installed in the case. The DOORS are mounted to the frame.

Frame/Door Combination	Glass Temp Middle	Rail Temp Bottom	Safety Factor	Glass Watts per Square Foot
101 / ELM-HG Door	69.5°F	65.5°F	11°F	3.5
LEF2 / ELM-HG2 Door	67.0°F	64.5°F	8.0°F	2.5

Test results are conducted at lab conditions of 75°F Ambient, 55% Relative Humidity, 58°F Dew Point, and -12°F discharge air temperature.

These new technologies do add costs; however testing has shown about a 1-year simple payback for the LEF2 frame and ELM-HG2 door combination over the 101 frame and ELM-HG package. Contact Zero Zone for specific case studies.

Note:

- 1. Evolution medium temp cases (i.e. RVCC models) will not be affected.**
- 2. Crystal™ Merchandiser medium temp and low temp cases do not have door frames and will not be affected.**
- 3. NOTE: Crystal™ Merchandiser medium temp cases are 2017 DOE Compliant already!**