



Commercial Display Systems

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2009 Federal Standards

The Federal government has published new energy standards for all glass doors manufactured as of 1-1-2009 the following is a statement to summarize their requirements as well as the actual copy of the new standards please see that your customers are informed of the new requirements.

According to the new Energy standards all cooler glass doors must be 3 pane glass with heat reflective glass or gas filled, or 2 pane gas filled, all freezer glass doors are to be 3 pane heated with an energy controller.

H.R. 6 73-77, Section 312—WALK-IN COOLERS AND WALK-IN FREEZERS:

The terms 'walk-in cooler' and 'walk-in freezer' mean an enclosed storage space refrigerated to temperatures, respectively, above, and at or below 32 degrees Fahrenheit that can be walked into, and has a total chilled storage area of less than 3,000 square feet. The terms 'walk-in cooler' and 'walk-in freezer' do not include products designed and marketed exclusively for medical, scientific, or research purposes.

Each walk-in cooler or walk-in freezer with transparent reach-in doors manufactured on or after January 1, 2009, shall also meet the following specifications:

(A) Transparent reach-in doors for walk-in freezers and windows in walk-in freezer doors shall be of triple-pane glass with *either* heat-reflective treated glass *or* gas fill.

(B) Transparent reach-in doors for walk-in coolers, and windows in walk-in cooler doors shall be:

(i) double-pane glass with heat-reflective treated glass *and* gas fill; or

(ii) triple-pane glass with *either* heat-reflective treated glass *or* gas fill.

(C) If the appliance has an anti-sweat heater *without* anti-sweat heat controls, the appliance shall have a total door rail, glass, and frame heater power draw of not more than:

7.1 watts per square foot of door opening (for freezers) and

3.0 watts per square foot of door opening (for coolers)

(D) If the appliance has an anti-sweat heater *with* anti-sweat heat controls, and the total door rail, glass, and frame heater power draw is more than :

7.1 watts per square foot of door opening (for freezers) and

3.0 watts per square foot of door opening (for coolers),

the anti-sweat heat controls shall reduce the energy use of the anti-sweat heater in a quantity corresponding to the relative humidity in the air outside the door or to the condensation on the inner glass pane.

Walk-in coolers and freezers in supermarkets, supercenters, and convenience stores will all be affected by these requirements. Reach in coolers boxes are exempt from the 2009 standard. Store owners and planners will be required to comply with these EISA regulations with any new store plans or retrofit programs starting in 2009.

Commercial Display Systems will supply 3 pane Low E glass for all Cooler applications and an anti-sweat controller for all Freezer applications. One Controller will handle up to 5 doors, for door line-ups in excess of 5 doors a relay will be supplied for each additional 5 doors. If you have any questions please contact Commercial Display Systems LLC.

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