



Under Federal Law, New Construction and Design Requirements for walk-in coolers and freezers

ENERGY INDEPENDENCE AND SECURITY ACT OF 2007 (EISA)
Signed into law December 19, 2007 includes requirements in SEC. 312. relating to walk-in coolers and walk-in freezers manufactured on or after January 1, 2009. Walk-in coolers and freezers are defined as 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. These requirements do not include products designed and marketed exclusively for medical, scientific, or research purposes.

In Summary, the requirements are:

Have automatic door closers that firmly close all walk-in doors that have been closed to within 1 inch of full closure, except for doors wider than 3 feet 9 inches or taller than 7 feet. *Kool Star provides self-closing hardware with door closer that meet these requirements as a standard.*

Have strip doors; spring hinged doors, or other method of minimizing infiltration when doors are open. *Kool Star provides spring loaded hinges on entry doors and offers strip curtains hinged clear plastic panel doors and air curtains as optional equipment.*

Contain wall, ceiling, and door insulation of at least R-25 for coolers and R-32 for freezers, except that this subparagraph shall not apply to glazed portions of doors nor to structural members. *Kool Star's 4" wall insulation with R33.33 meets the national EISA requirements and the California CEC requirements for coolers. Kool Star's 5" wall insulation with R41.67 meets the California CEC requirements for freezers.*

Contain floor insulation of at least R-28 for freezers. *Kool Star full 4" insulated floor panels meet the requirement with R33.33.*

Evaporator fan motors of under 1 horsepower and less than 460 volts, use electronically commutated motors or 3-phase motors. *Kool Star is prepared to meet these requirements.*

Condenser fan motors of under 1 horsepower, use electronically commutated motors, permanent split capacitor-type motors or 3-phase motors; *Kool Star is prepared to meet these requirements.*

Interior lights, use light sources with an efficacy of 40 lumens per watt or more. CFL bulbs when used in Kool Star fixtures will meet or exceed these requirements. Kool Star offers dual bulb fluorescent light fixtures as an option, which also meet or exceed these requirements.

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. Kool Star provides reach-in doors that meet these requirements.

Transparent reach-in doors for walk-in coolers and windows in walk-in cooler doors shall be of double-pane glass with heat-reflective treated glass and gas fill; or triple-pane glass with either heat reflective treated glass or gas fill. Kool Star meets these requirements.

If the appliance has an antisweat heater without antisweat 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).

If the appliance has an antisweat heater with antisweat 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 antisweat heat controls shall reduce the energy use of the antisweat heater in a quantity corresponding to the relative humidity in the air outside the door or to the condensation on the inner glass pane. Kool Star meets the requirement for CEC, and for the national EISA requirements.

Feel free to contact Kool Star with any questions you have regarding these requirements. If you purchase a walk-in from other than Kool Star, please assure they also meet these requirements. For more information and to review the entire law:

http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=110_cong_public_laws&docid=f:publ140.110

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