From Steve Nadel to Michael Martin

November 12, 2004

Standard for Transparent Door Ice Cream Freezers

As a follow-up to our discussion, I downloaded the current CEC commercial freezer db and had staff do a best-fit line for the transparent door products. The analysis is attached. For a CEC standard on transparent door products, I'd recommend that the standard be based on this line, thereby letting half the equipment pass and half not. This standard would not be quite as stringent as the solid-door standard (relative to equipment in the CEC database), but since we're adding this standard at the last minute I lean toward being a little looser.

Specifically, I recommend that the transparent door standard for ice cream freezers be \(0.88V + 0.33\). Let me know if you think this makes sense.
Ice Cream Freezer

- Solid Hinged Automatic
- Solid Hinged Manual
- Transparent Hinged Automatic
- Transparent Hinged Manual
- Transparent Sliding Automatic
- Transparent Sliding Manual
- Solid Door

Energy Use (KW/day) vs. Total Volume (cubic feet)

- Transparent door: $y = 0.8775x + 0.3264$
- Solid door: $y = 0.3803x + 1.9126$