

# ANSI/AHRI Standard 1201 (SI)

## 2013 Standard for Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets



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Note:

This standard supersedes ANSI/AHRI Standard 1200-2010.  
For I-P ratings, see ANSI/AHRI Standard 1200 (I-P) – 2013.

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# PERFORMANCE RATING OF COMMERCIAL REFRIGERATED DISPLAY MERCHANDISERS AND STORAGE CABINETS

## Section 1. Purpose

**1.1** *Purpose.* The purpose of this standard is to establish for Commercial Refrigerated Display Merchandisers and Storage Cabinets: definitions; test requirements; rating requirements; symbols and subscripts; minimum data requirements for Published Ratings; marking and nameplate data and conformance conditions.

**1.1.1** *Intent.* This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors and users. The values reported using this standard allow comparison of energy consumption within each of the following product categories: Remote Commercial Refrigerated Display Merchandisers, Remote Commercial Refrigerated Storage Cabinets, Self-contained Commercial Refrigerated Display Merchandisers and Self-contained Commercial Refrigerated Storage Cabinets.

**1.1.2** *Review and Amendment.* This standard is subject to review and amendment as technology advances.

## Section 2. Scope

**2.1** *Scope.* This standard applies to the following manufacturers' standard catalog Commercial Refrigerated Display Merchandisers and Storage Cabinets, provided that the cases are equipped and designed to work with electrically driven, direct expansion type systems:

- 2.1.1** Self-contained and Remote Commercial Refrigerated Display Merchandisers and Storage Cabinets
- 2.1.2** Open and Closed Commercial Refrigerated Display Merchandisers

**2.2** *Exclusions.* This standard does not apply to the following:

- 2.2.1** Refrigerated vending machines
- 2.2.2** Ice makers
- 2.2.3** Soft serve extruders
- 2.2.4** Secondary coolant applications

## Section 3. Definitions

All terms in this document will follow the standard industry definitions in the ASHRAE Wikipedia website (<http://wiki.ashrae.org/index.php/ASHRAEwiki>) unless otherwise defined in this section.

**3.1** *Anti-condensate Energy Consumption (AEC).* The Total Daily Energy Consumption used in condensate removal on the outside of the Commercial Refrigerated Display Merchandiser or Storage Cabinet, which typically includes fan and condensate heater energy expressed in kW·h per day.

**3.2** *Calculated Daily Energy Consumption (CDEC).* This is a value for Remote Commercial Refrigerated Display Merchandisers or Storage Cabinets based upon the requirements of this standard expressed in kW·h per day.

**3.3** *Coefficient of Performance (COP).* A ratio of the cooling capacity in watts  $W$  to the power input value in watts  $W$  at any given set of Rating Conditions expressed in watts/watt,  $W/W$ .

**3.4** *Commercial Refrigerated Display Merchandiser.* A cabinet cooled by a refrigerating system for displaying chilled and/or frozen food to be maintained within prescribed temperature limits.