



# Standard Practice for Environmental Impact Analysis of Commercial Food Service Equipment<sup>1</sup>

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## 1. Scope

1.1 This practice for analyzing the environmental impact of food service equipment is intended to document the performance of food service equipment using attributes that are indicators of the appliance's environmental impact. It includes, but is not limited to, cooking, warewashing, refrigeration, ventilation, and mechanical equipment that use energy or water in a typical commercial cooking application.

1.1.1 The method assigns points for each attribute and calculates a total score for the appliance. A specifier or purchaser of the appliance may use the individual results for certain attributes that are important in their analysis of the environmental impact of product. The results may also be used to compare the environmental impact of one model to another of the same type of equipment.

1.1.2 The total score is not intended to provide a positive or negative judgment of a certain appliance's environmental impact.

1.1.2.1 This analysis includes attributes that occur in the manufacturing, packaging, use, and disposal of a product.

1.2 *Units*—The values stated in SI units are to be regarded as the standard. No other units of measurement are included in this standard.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>2</sup>

**F1275** Test Method for Performance of Griddles

**F1361** Test Method for Performance of Open Deep Fat Fryers

**F1484** Test Methods for Performance of Steam Cookers

**F1496** Test Method for Performance of Convection Ovens

**F1521** Test Methods for Performance of Range Tops

**F1605** Test Method for Performance of Double-Sided Griddles

**F1639** Test Method for Performance of Combination Ovens (Withdrawn 2012)<sup>3</sup>

**F1695** Test Method for Performance of Underfired Broilers

**F1696** Test Method for Energy Performance of Stationary-Rack, Door-Type Commercial Dishwashing Machines

**F1704** Test Method for Capture and Containment Performance of Commercial Kitchen Exhaust Ventilation Systems

**F1784** Test Method for Performance of a Pasta Cooker

**F1785** Test Method for Performance of Steam Kettles

**F1786** Test Method for Performance of Braising Pans

**F1787** Test Method for Performance of Rotisserie Ovens

**F1817** Test Method for Performance of Conveyor Ovens

**F1920** Test Method for Performance of Rack Conveyor, Commercial Dishwashing Machines

**F1964** Test Method for Performance of Pressure Fryers

**F1965** Test Method for Performance of Deck Ovens

**F1991** Test Method for Performance of Chinese (Wok) Ranges

**F2022** Test Method for Performance of Booster Heaters

**F2093** Test Method for Performance of Rack Ovens

**F2140** Test Method for Performance of Hot Food Holding Cabinets

**F2141** Test Method for Performance of Self-Serve Hot Deli Cases

**F2142** Test Method for Performance of Drawer Warmers

**F2143** Test Method for Performance of Refrigerated Buffet and Preparation Tables

**F2144** Test Method for Performance of Large Open Vat Fryers

**F2237** Test Method for Performance of Upright Overfired Broilers

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee F26 on Food Service Equipment and is the direct responsibility of Subcommittee F26.05 on Life Cycle Cost and Sustainability.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

<sup>3</sup> The last approved version of this historical standard is referenced on [www.astm.org](http://www.astm.org).