

#### **ENERGY STAR<sup>®</sup> Commercial Coffee Brewers**

Draft 1 Version 1.1 Webinar March 1, 2018







# Agenda

- Welcome & Introductions
- Drivers for update
- Draft 1 Version 1.1
  - Terms and Definitions
  - Normalized Heavy-Use-Brew Energy Rate Level
  - Additional Reporting Requirements
- General Discussion & Questions
- Timeline



#### Introductions

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#### **Version 1.1 Update**

Drivers for the update:

- Refining and adding additional terms and definitions
- Revising the Normalized Heavy-Use-Brew Energy Rate Level
- Including additional reporting requirements
- Large purchasing organizations have demonstrated an interest in certified products
- Based on available data, various product designs and multiple manufacturers will be able to certify products
- Significant energy savings on a national basis can be achieved through addressing the active and idle mode energy use of commercial coffee brewers









# **Terms and Definitions**

#### **Proposed Changes**

Replacement:

- (Version 1.0) <u>Average Tank Temperature</u>: The average temperature of the water held in the reservoir tank during ready-to-brew idle and energy save mode conditions.
- (Version 1.1) Internal Tank Water Temperature: The average temperature of the water held in the tank. Internal water tank temperature should be measured and recorded during the ready-to-brew idle mode, energy save mode (if applicable), and heavy-use brew tests. (This may also be referred to as the coffee preparation temperature.)



## **Terms and Definitions**

#### **Proposed Changes**

Additions:

- <u>Serving Temperature</u>: The maximum temperature of the beverage delivered from a brewing machine, measured at the dispensing outlet. The serving temperature of the brewed coffee should be measured, post-extraction during the heavy-use brew test.
- <u>Holding Temperature</u>: The maximum internal temperature of the brewed coffee product as it collects in a serving vessel (i.e., an insulated carafe or glass coffee decanter). The coffee holding temperature should be measured by securing a thermocouple at the geometric center of the serving vessel.



## **Energy Performance Level**

#### **Proposed Change**

Normalized Heavy-Use-Brew Energy Rate

- (Version 1.0)  $\leq$  280 watt-hrs/gal
- (Version 1.1)  $\leq$  350 watt-hrs/gal

Normalized Ready-to-Brew Idle Energy Rate – No change

- (Version 1.0)  $\leq$  65 watts/gal
- (Version 1.1)  $\leq 65$  watts/gal







## **Reporting Requirements**

#### **Proposed Additional Reporting Requirements**

Additions:

- Internal water tank temperature during ready-to-use idle mode (average)
- Internal water tank temperature during heavy-use-brew test (average)
- Serving temperature during heavy-use-brew test (maximum)
- Holding temperature during heavy-use-brew test (maximum)

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## **General Discussion & Questions**





# Timeline

- Data Assembly Effort Launch Fall 2017
- Commercial Coffee Brewer Draft Version 1.1 Specification February 22, 2018
- Draft Version 1.1 Webinar March 1, 2018
- Draft Version 1.1 Comments Due March 22, 2018
- Final Version 1.1 Early April (Effective Immediately)



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