



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
AIR AND RADIATION

October 27, 2020

Dear ENERGY STAR® Commercial Dishwasher Partner or Other Interested Stakeholder:

The U.S. Environmental Protection Agency (EPA) is pleased to share the [Final Version 3.0 ENERGY STAR Commercial Dishwasher product specification](#). EPA would like to thank the many stakeholders who have invested time and resources in an effort to contribute feedback that has informed this specification revision process.

The Version 3.0 requirements will become effective on **July 27, 2021**. ENERGY STAR certified commercial dishwashers under the Version 3.0 specification will offer consumers, on average, energy savings of up to 17 percent. This specification establishes updated performance levels, including the introduction of a wash energy metric; recognizes products with innovative heat recovery technologies; and aligns with updated industry test methods, terms and definitions. If all commercial dishwashers sold in the United States were ENERGY STAR certified to Version 3.0, the energy cost savings would grow to more than \$230 million each year, and more than 4.3 billion pounds of greenhouse gas emissions would be prevented.

This specification was developed through a process that included release of two draft specifications, a limited topic proposal, and the final draft specification, two webinars, stakeholder meetings, and additional input from American Society for Testing and Materials (ASTM) F26 committee participants and various other industry stakeholders. Stakeholder comments, previous drafts of the specification, and related materials are available on the [product development website](#).

No changes were made from the final draft to the final specification that impact scope of eligible products or certification criteria under Sections 2 and 3, respectively.

Key changes to the Version 3.0 specification since the final draft are summarized below. Additional comments and responses can be found in the accompanying [comment response document](#):

- **Test Method References:** In response to the final draft, a stakeholder requested EPA refrain from finalizing the specification until the referenced test method revisions were approved by the ASTM F26 committee. With the recent approval of the methods, EPA is finalizing this specification making minor changes to align. EPA adjusted the heat recovery machine definition; assumed system efficiency constant in the hot water energy offset equation (from 0.80 to 0.77), and updated the test method references in Table 3 of the V3.0 specification as:
 - ASTM F1696-20, *Standard Test Method for Energy Performance of Stationary-Rack, Door-Type Commercial Dishwashing Machines*
 - ASTM F1920-20, *Standard Test Method for Energy Performance of Rack Conveyor Commercial Dishwashing Machines*
- **Heat Recovery Machine Requirement:** Based on input from stakeholders, EPA has included the following footnote in Section 1.D.a. of the final specification, clarifying that in order to meet the heat recovery machine definition and for purposes of applying the offset equation, the machine may not exceed 5% hot water supply:
 - *If at any point during the wash and rinse cycles hot water is supplied to the machine, it is part of the allotted maximum 5% volume, which includes top-off or make-up water to replenish the tank due to evaporation or other residual losses.*

Timeline and Next Steps:

EPA shares partners' desire for a smooth transition from one ENERGY STAR specification to the next, so that consumers can expect ENERGY STAR labeled products to fully meet the latest requirements upon their effective date. With this in mind, EPA has established the following timeline:

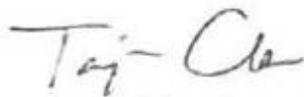
- Effective immediately, manufacturers may elect to have their Certification Body (CB) certify their eligible products to the Version 3.0 requirements.
- On March 11, 2021, CBs will be instructed to stop certifying new product submittals to Version 2.0. Note, however, that existing certifications will remain valid for purposes of ENERGY STAR certification until July 27, 2021.
- Any Commercial Dishwasher products manufactured as of July 27, 2021, must meet Version 3.0 requirements to bear the ENERGY STAR mark. All certifications of products to the Version 2.0 specification will be invalid for purposes of ENERGY STAR certification and CBs will only submit product models certified to Version 3.0 to EPA.

ENERGY STAR partnership as a manufacturer is limited to organizations that own and/or license a brand name under which they sell eligible products in the United States and/or Canada. Partnership is not available to original equipment manufacturers (OEMs) that do not sell directly to consumers or end users. OEMs may certify products on behalf of the ENERGY STAR brand owners/licensees; however, the brand owner must be the ENERGY STAR partner associated directly with the certified product models, since only partners are authorized to use the ENERGY STAR certification mark.

EPA thanks stakeholders who provided feedback during the specification revision process and looks forward to working with you as you certify and market your energy-efficient commercial dishwashers. If you have any questions or concerns about the specification or partnership process, please contact me at Crk.Tanja@epa.gov or 202-566-1037 and Adam Spitz at Adam.Spitz@icf.com or 916-231-7685 with questions or concerns. For any other commercial dishwasher related questions, please contact cfs@energystar.gov.

Thank you for your continued support of ENERGY STAR.

Best Regards,



Tanja Crk, Product Manager
ENERGY STAR Commercial Food Service

Enclosures:

[Commercial Dishwashers Final Version 3.0 Specification](#)

[Commercial Dishwashers Final Draft Version 3.0 Comment Response Matrix](#)

[Commercial Dishwashers Final Version 3.0 Data Packet](#)