



Water Efficiency Research Committee Projects - 2009

Project No. 6

Project Name: Ultra High-Efficiency Pre-Rinse Spray Valves (PRSVs)

Description:

EPAct 2005 limits flow rates of PRSVs to 1.6 gpm. EPAct contains no performance requirements for PRSVs and, as such, actual performance in the field varies from excellent (removing food from dishware and utensils at the pre-rinse station in food service) to very poor (requiring lengthy times to remove food, thereby increasing labor costs).

WaterSense is interested in examining ultra high-efficiency PRSVs with a flow rate of 1.3 gpm or less. Specifically, WaterSense would like to investigate if product usage times correlate with performance ratings achieved on the ASTM F2324-03 cleanability test. WaterSense seeks data that asks the following questions:

1. How does water usage and time usage vary among pre-rinse spray valves currently on the market?
2. Do usage times in the field correlate to cleanability times achieved using the ASTM F2324-03 test method?

Type of Research: Field

Expected Term to Complete the Research: Approximately 9 months

Estimated Cost Threshold: Medium

Current Status: Unfunded. Work has not yet commenced.