AWE Template of Suggested Water Use Thresholds for Plumbing (Gallons)

Fixture, Fitting, Appliance, or Equipment	Probable Application	Reference Standards or Specifications (if any)	Recommended Threshold of Water Use (maximum)	Other Parameters	Comments	For information and comparison only: Threshold prescribed in final ASHRAE ANSI Standard SS189.1 for high-performance buildings
Water Closet (Tank-type toilet)	Residential & Light Commercial	WaterSense specification for HETs: www.epa.gov/watersense/docs/spec_het508.pdf	1.28-gpf effective flush volume	Applies only to tank-type fixtures	Support WaterSense. Fixture must be certified in accordance with WaterSense requirements; category includes light commercial applications.	WaterSense (1.28 effective flush volume)
Water Closet (Flushometer valve/bowl toilet combination)	Non-Residential	ASME A112.19.2-2008/CSA B45.1-08 & related stds for valves; WaterSense specification applies to determining effective flush volume for dual-flush fixtures.	1.28-gpf effective flush volume **NOTE: SEE CAUTIONARY STATEMENT**	Applies only to flushometer valve/bowl combination fixtures (single- and dual-flush)	Effective flush volume for dual-flush fixtures determined in accordance with WaterSense specification. **NOTE: SEE AWE CAUTIONARY STATEMENT REGARDING DRAINLINE ISSUES ASSOCIATED WITH CERTAIN TYPES OF BUILDING INSTALLATIONS**	1.28-gpf effective flush volume
Urinal	All	ASME A112.19.2-2008/CSA B45.1-08, ASME A112.19.19, IAPMO Z124.9, and related ASSE std for valves WaterSense specification for flushing urinals: http://www.epa.gov/watersense/docs/urinal_finalspec508.pdf	0.5-gpf	None at this time	Support WaterSense specification for flushing urinals. Category includes flushing and non-water urinals, but non-water urinals are not included in the WaterSense Specification for Urinals.	0.5-gpf
Lavatory Faucet	Residential	WaterSense specification for Resid Lavatory Faucets: www.epa.gov/watersense/docs/faucet_spec508.pdf	1.5-gpm	0.8-gpm minimum	Support WaterSense by adopting their thresholds (max & min).	WaterSense (1.5-gpm max; 0.8 gpm min)
Kitchen Faucet	Residential	ASME A112.18.1/CSA B125.1	2.2-gpm	None	Same as EPAct 92 maximum.	2.2-gpm
Pre-Rinse Spray Valve	Commercial	ASME A112.18.1/CSA B125.1 ASTM Standard Test Method F-2324-09	1.3-gpm	None	Could use the California list by the CEC if necessary. That spec requires a maximum 30 second cleaning time when tested using ASTM F 2324 test method. Other jurisdictions are currently using other metrics (i.e., 26 and 21 seconds).	1.3-gpm
Showerhead	Residential & Hospitality	ASME A112.18.1/CSA B125.1; WaterSense specification for residential showerheads: http://www.epa.gov/watersense/docs/showerheads_finalspec508.pdf	2.0-gpm	Lower flow rates **must be accompanied** by automatic compensating valve tested & certified to the same flow rate or less (e.g., a 1.75 gpm showerhead must be accompanied by an automatic compensating valve certified at 1.75 gpm).	Support WaterSense showerhead specification at 2.0-gpm. WaterSense specification also defines other performance metrics besides flow rate (i.e., spray coverage and force).	2.0-gpm
Ice Machine	Commercial	Energy Star	None	Energy Star only lists air-cooled machines	By specifying Energy Star, water cooled machines are automatically excluded.	Energy Star

NOTE: Other items may be added to this listing as threshold requirements are defined through a stakeholder input process.

NOTE: For U.S. appliance threshold maximums, go to www.a4we.org/codes_and_standards_home_page.aspx and download National Efficiency Standards and Specifications for Residential and Commercial Water-Using Fixtures and Appliances under RESOURCES.

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AWE Template of Suggested Water Use Thresholds for Plumbing (Litres)

Fixture, Fitting, Appliance, or Equipment	Probable Application	Reference Standards or Specifications (if any)	Recommended Threshold of Water Use (maximum)	Other Parameters	Comments	For information and comparison only: Threshold prescribed in final ASHRAE ANSI Standard SS189.1 for high-performance buildings
Water Closet (Tank-type toilet)	Residential & Light Commercial	WaterSense specification for HETs: www.epa.gov/watersense/docs/spec_het508.pdf	4.8-Lpf effective flush volume	Applies only to tank-type fixtures	Support WaterSense. Fixture must be certifed in accordance with WaterSense requirements; category includes light commercial applications.	WaterSense (4.8-Lpf effective flush volume)
Water Closet (Flushometer valve/bowl toilet combination)	Non-Residential	ASME A112.19.2-2008/CSA B45.1-08 & related stds for valves; WaterSense specification applies to determining effective flush volume for dual-flush fixtures.	4.8-Lpf effective flush volume **NOTE: SEE CAUTIONARY STATEMENT**	Applies only to flushometer valve/bowl combination fixtures (single- and dual-flush)	Effective flush volume for dual-flush fixtures determined in accordance with WaterSense specification. **NOTE: SEE AWE CAUTIONARY STATEMENT REGARDING DRAINLINE ISSUES ASSOCIATED WITH CERTAIN TYPES OF BUILDING INSTALLATIONS**	4.8-Lpf effective flush volume
Urinal	All	ASME A112.19.2-2008/CSA B45.1-08, ASME A112.19.19, IAPMO Z124.9, and related ASSE std for valves WaterSense specification for flushing urinals: http://www.epa.gov/watersense/docs/urinal_finalspec508.pdf	1.9-Lpf	None at this time	Support WaterSense specification for flushing urinals. Category includes flushing and non-water urinals, but non-water urinals are not included in the WaterSense Specification for Urinals.	1.9-Lpf
Lavatory Faucet	Residential	WaterSense specification for Resid Lavatory Faucets: www.epa.gov/watersense/docs/faucet_spec508.pdf	5.7-Lpm	0.8-gpm minimum	Support WaterSense by adopting their thresholds (max & min).	WaterSense (5.7 Lpm max; 3.0-Lpm min)
Kitchen Faucet	Residential	ASME A112.18.1/CSA B125.1	8.3-Lpm	None	Same as U.S. EPAct 92 maximum.	8.3-Lpm
Pre-Rinse Spray Valve	Commercial	ASME A112.18.1/CSA B125.1 ASTM Standard Test Method F-2324-09	4.9-Lpm	None	Could use the California list by the CEC if necessary. That spec requires a maximum 30 second cleaning time when tested using ASTM F-2324 test method. Other jurisdictions are currently using other metrics (i.e., 26 and 21 seconds).	4.9-lpm
Showerhead	Residential & Hospitality	ASME A112.18.1/CSA B125.1; WaterSense specification for residential showerheads: http://www.epa.gov/watersense/docs/showerheads_finalspec508.pdf	7.6-Lpm	Lower flow rates **must be accompanied** by automatic compensating valve tested & certified to the same flow rate or less (e.g., a 6.0-Lpm showerhead must be accompanied by an automatic compensating valve certified at 6.0-Lpm).	Support WaterSense showerhead specification at 7.6-Lpm. WaterSense specification also defines other performance metrics besides flow rate (i.e., spray coverage and force).	7.6-Lpm
Ice Machine	Commercial	Energy Star	None	Energy Star only lists air-cooled machines	By specifying Energy Star, water cooled machines are automatically excluded.	Energy Star

NOTE: Other items may be added to this listing as threshold requirements are defined through a stakeholder input process.

NOTE: For U.S. appliance threshold maximums, go to www.a4we.org/codes_and_standards_home_page.aspx and download National Efficiency Standards and Specifications for Residential and Commercial Water-Using Fixtures and Appliances under RESOURCES.

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