Fixtures and	EPAct 1992, EPAct 2005, "Energy Independence and Security Act of 2007" (or backlog NAECA updates)		WaterSense [®] or Energy Star [®]		Consortium for Energy Efficiency	
Appliances	Current Standard	Proposed/Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed/Future Specification
Residential Toilets	U.S. Federal max = 1.6 gpf ¹ ASME/CSA nat'l plumb std provides for flush volumes of 1.28, 1.6, & 3.5 gal per flush (4.8, 6.0 & 13 Lpf)	1.28 gpf/ 4.8 Lpf proposed as new U.S. Federal maximum by efficiency advocates for tank-type only	Tank-type toilets: WaterSense = 1.28 gpf (4.8L) with at least 350 gram waste removal + LA Spec.	Effective Nov 2011, EPA has announced revisions to product specifications for sampling, product marking, & flapper seals, see: www.epa.gov/WaterSense/docs/revised het spec revisions summmary 0506 11 final508.pdf	No specification	
Residential Lavatory (Bathroom) Faucets	U.S. Federal max = 2.2 gpm (8.3 Lpm) at	1.5 gpm/ 5.7 Lpm proposed by some efficiency advocates	WaterSense = 1.5 gpm maximum & 0.8 gpm minimum at 20 psi		No specification	
Residential Kitchen Faucets	60 psi ²			None proposed at this time	No specification	
Residential Showerheads	U.S. Federal max = 2.5 gpm (9.5 Lpm) at 80 psi		WaterSense = 2.0 gpm		No specification	

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WF: water factor



¹ EPAct 1992 standard for toilets applies to both commercial and residential models.

² EPAct 1992 standard for faucets applies to both commercial and residential models.

Fixtures and Appliances	EPAct 1992, EPAct 2005, "Energy Independence and Security Act of 2007" (or backlog NAECA updates)		WaterSense [®] or Energy Star [®]		Consortium for Energy Efficiency		
Appliances	Current Standard	Proposed/Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed/Future Specification	
Residential Clothes Washers	MEF ≥ 1.26 ft³/kWh/cycle WF ≤ 9.5 gal/cycle/ft³ Note: MEF measures energy consumption of the total laundry cycle (wash + dry). The higher the number, the greater the energy efficiency	DOE to publish final rule by Dec 31, 2011, determining if standards will change effective 1/1/2015.	Energy Star (DOE) Effective Jan 1, 2011: MEF ≥ 2.0 WF ≤ 6.0 gal/cycle/ft³ New: Energy Star Most Efficient (Tier 2 Energy Star) Effective May 5, 2011 to Dec 31, 2011: washers greater than 2.5 cubic feet, MEF 3.0 ft³/kWh/cycle; WF 3.3 gal/cycle/ft³ And for compact capacity washers less than 2.5 cubic feet, MEF 2.3 and WF 4.5 Note: Only EPA certified by independent body residential clothes washers (no combo washer-dryers) with capacity larger than 1.6 cubic feet are eligible for the Most Efficient Label		Effective Jan 1, 2011, Tier 1: MEF ≥ 2.0 ft³/kWh/cycle; WF ≤ 6.0 gal/cycle/ft³ Tier 2: MEF ≥ 2.2 ft³/kWh/cycle; WF ≤ 4.5 gal/cycle/ft³ Tier 3: MEF ≥ 2.4 ft³/kWh/cycle; WF ≤ 4.0 gal/cycle/ft³		

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Lpf: Litres per flush

Fixtures and Appliances	EPAct 1992, EPAct 2005, "Energy Independence and Security Act of 2007" (or backlog NAECA updates)		WaterSense [®] or Energy Star [®]		Consortium for Energy Efficiency	
	Current Standard	Proposed/Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed/Future Specification
Standard Size and Compact Residential Dishwashers ³	Standard models: Energy Independence and Security Act of 2007 specified: effective 1/1/2010: Standard Size: 355 KWh/year (.62 EF + 1 watt standby) WF ≤ 6.5 gallons/cycle Compact Size: 260 kWh WF ≤ 4.5 gallons/cycle EF is the number of cycles the machine can run for each kWh of electricity	Also specified by the Act: DOE shall publish final rule by 1/1/2015 determining if dishwasher standards will change effective 1/1/2018.	Energy Star (DOE) Effective July 1, 2009 Standard Size: 324 kWh/year WF ≤ 5.8 gallons/cycle Compact Size: 234 kWh/year WF ≤ 4.0 gallons/cycle kWH/yr is replacing EF since it includes the cycles the machine can run for each kWh, but also includes up to 8 kWh/yr of standby power (when the machine isn't cycling)	Energy Star Proposed effective Jan 1 1, 2013: Tier 1: Standard Size: 307 kWh/yr 5.0 gallons per cycleCompact Size: 222 kWh/yr 3.5 gallons per cycle Note: Tier 2 now being considered by EPA dates and metrics TBD	Tier 1: EF ≥ 0.72 cycles/kWh; and 307 max kWh/year; WF 5.0 gallons per cycle Tier 2: EF ≥ 0.75 cycles/kWh; 295 max kWh/year; WF 4.25 gallons per cycle Compact models less than 8 place settings): EF ≥ 1.0 cycles/kWh; 222 max kWh/year; 3.5 gallons per cycle	Considering adjustment of Tiers after July 1, 2011 when new Energy Star becomes effective

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WF: water factor



³ Standard models: capacity is greater than or equal to eight place settings and six serving pieces; Compact models: capacity is less than eight place settings and six serving pieces

Fixtures and	EPAct 1992, E (or backlog NAE		WaterSense	Consortium for Energy Efficiency		
Appliances	Current Standard	Proposed/ Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed /Future Specification
Commercial Toilets	U.S. Federal max = 1.6 gpf ⁴ (6.0 Lpf) Except blow-out fixtures: 3.5-gpf (13 Lpf) Note: Some states prohibit blow-out at 3.5 gpf ASME/CSA nat'l plumb std provides for flush volumes of 1.28, 1.6, & 3.5 gal per flush (4.8, 6.0 & 13 Lpf)	1.28 gpf/ 4.8 Lpf proposed as a new U.S. Federal maximum by efficiency advocates for tank-type only	Tank-type only: WaterSense at 1.28 gpf (4.8Lpf) with at least 350 gram waste removal + LA Spec.	Flushometer valve/ bowl combinations: WaterSense specification to be developed. NOI yet to be issued. No release date for the spec promised.	No specification	
Urinals (Commercial & Residential)	U.S. Federal max = 1.0 gpf ASME/CSA nat'l plumb std provides for flush volumes of 0.5 and 1.0 gal per flush (1.9 & 3.8 Lpf)	0.5 gpf (1.9 Lpf) proposed as a new U.S. Federal max. by efficiency advocates	WaterSense = 0.5 gpf (1.9Lpf) (flushing urinals only)		No specification	
Commercial Faucets	Private faucets: 2.2 gpm at 60 psi ⁵ Public Restroom faucets:			WaterSense draft specification now under consideration	No specification	

⁴ EPAct 1992 standard for toilets applies to both commercial and residential models.

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WF: water factor



⁵ In addition to EPAct requirements, the American Society of Mechanical Engineers standard for public lavatory faucets is 0.5 gpm at 60 psi (ASME A112.18.1-2005). This maximum has been incorporated into the national Uniform Plumbing Code and the International Plumbing Code for all except private applications, private being defined as residential, hotel guest rooms, and health care patient rooms. All other applications subject to the 0.5 gpm/1.9 Lpm flow rate maximum.

Fixtures and	EPAct 1992, EPAct 2005 (or backlog NAECA updates)		WaterSense [®] or Energy Star [®]		Consortium for Energy Efficiency	
Appliances	Current Standard	Proposed/ Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed /Future Specification
	0.5 gpm at 60 psi ⁵ Metering (auto shut of) faucets: 0.25 gallons per cycle ⁶					
Commercial Clothes Washers (Family-sized)	MEF ≥ 1.26 ft ³ /kWh; WF ≤ 9.5 gal/cycle/ft ³	New standards under development: DOE scheduled final action: January 2010; Rulemaking process postponed by DOE in 2008; began again in Dec. 2009.	Energy Star (DOE) MEF ≥ 1.72 ft³/kWh/cycle; WF ≤ 8.0 gal/cycle/ft³		Adopted Jan 1, 2007 (Note: this spec covers only normal capacity family washers, NOT large capacity commercial washers) Tier 1: 1.80 MEF 7.5 gal/cycle/ft ³ Tier 2: 2.00 MEF 6.0 gal/cycle/ft ³ Tier 3: 2.20 MEF 4.5 gal/cycle/ft ³	

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⁶ Metering faucets not subject to flow rate maximum

Fixtures and	EPAct 1992, EPAct 2005 (or backlog NAECA updates)		WaterSense [®] or	Consortium for Energy Efficiency		
Appliances	Current Standard	Proposed/ Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed /Future Specification
Commercial Dishwashers	No standard	Future Standard	Energy Star (EPA) using NSF/ANSI standards for water use and ASTM standards for energy use Effective 10/11/2007 Under counter: Hi Temp: 1.0 gal/rack; <= 0.90 kW; Lo Temp 1.70 gal/rack <= 0.5 kW Stationary Single Tank Door: Hi Temp: 0.95 gal/rack; <= 1.0 kW Lo Temp: 1.18 gal/rack; <= 0.6 kW Single Tank Conveyor: Hi Temp: 0.70 gal/rack; <= 2.0 kW; Lo Temp: 0.79 gal/rack; <= 1.6 kW Multiple Tank Conveyor:	Specification	Specification No specification	Specification
			Hi Temp: 0.54 gal/rack; <= 2.6 kW Lo Temp: 0.54 gal/rack; <= 2.0 kW			

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Lpf: Litres per flush

Fixtures and	EPAct 1992, EPAct 2005 (or backlog NAECA updates)		WaterSense	Consortium for Energy Efficiency		
Appliances	Current Standard	Proposed/ Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed /Future Specification
Automatic Commercial Ice Makers ⁷	Effective 1/1/2010: Energy and condenser water efficiency standards vary by equipment type on a sliding scale depending upon harvest rate and type of cooling (see link to additional information at end of this table)		Energy Star (EPA) Energy and water efficiency standards vary by equipment type on a sliding scale depending upon harvest rate and type of cooling (see link to additional information at end of this table). Water cooled machines excluded from Energy Star		Energy and water (potable and condenser) standards are tiered and vary by equipment type on a sliding scale depending upon harvest rate and type of cooling (see link to additional information at end of this table)	
Commercial Pre-rinse Spray Valves (for food service appli- cations)	Flow rate ≤ 1.6 gpm (no pressure specified; no performance requirement)		No specification	Proposed Energy Star specification abandoned after standard established in EPAct 2005; WaterSense specification in development in conjunction with Energy Star	No specification (program guidance recommends 1.6 gpm at 60 psi and a cleanability requirement)	

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⁷ Optional standards for other types of automatic ice makers are also authorized under EPAct 2005.

Fixtures and	EPAct 1992, EPAct 2005 (or backlog NAECA updates)		WaterSense [®] o	Consortium for Energy Efficiency		
Appliances	Current Standard	Proposed/ Future Standard	Current Specification	Proposed/Future Specification	Current Specification	Proposed /Future Specification
Commercial Steam Cookers ⁸	No standard		Energy Star (EPA) Electric: 50% cooking energy efficiency; idle rate 400–800 Watts Gas: 38% cooking energy efficiency; idle rate 6,250–12,500 British thermal units/hour *No specified water use factor		Electric: 50% cooking energy efficiency; idle rate 400–800 Watts Gas: 38% cooking energy efficiency; idle rate 6,250– 12,500 British thermal units/hour Water Use Factor (for both electric and gas models): Tier 1A: ≤ 15 gal/hr Tier 1B: ≤ 4 gal/hr	

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WF: water factor

Lpf: Litres per flush



 $^{^{8}}$ Idle rate standards vary for 3-, 4-, 5-, and 6-pan commercial steam cooker models.

Information/materials on EPAct 2005/NAECA standards:

Schedule for development of appliance and commercial equipment efficiency standards:

http://www.eere.energy.gov/buildings/appliance standards/2006 schedule setting.html

Commercial Clothes Washers and Dishwashers (agenda/presentations at 4/27/06 DOE public meeting on rulemaking):

http://www.eere.energy.gov/buildings/appliance standards/residential/home appl mtg.html

Automatic Commercial Ice Maker Standards:

http://www.eere.energy.gov/buildings/appliance_standards/pdfs/epact2005_appliance_stds.pdf (Page 18)

Pre-rinse Spray Valves

http://www.eere.energy.gov/buildings/appliance standards/pdfs/epact2005 appliance stds.pdf (Page 10)

Information/materials on WaterSense specifications:

Toilets

http://www.epa.gov/watersense/products/toilets.html

Urinals

http://www.epa.gov/watersense/products/urinals.html

Bathroom Lavatory Faucets

http://www.epa.gov/watersense/products/bathroom sink faucets.html

Information/materials on Energy Star specifications:

Residential Clothes Washers

http://www.energystar.gov/index.cfm?c=clotheswash.pr_crit_clothes_washers

Commercial Clothes Washers

http://www.energystar.gov/index.cfm?fuseaction=clotheswash.display commercial cw

Residential Dishwashers

http://www.energystar.gov/index.cfm?c=dishwash.pr dishwashers

Commercial Dishwashers

http://www.energystar.gov/index.cfm?c=new specs.comm dishwashers

Automatic Commercial Ice Makers

http://www.energystar.gov/index.cfm?c=new specs.ice machines

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Commercial Steam Cookers

http://www.energystar.gov/index.cfm?c=steamcookers.pr_steamcookers

Information/materials on CEE specifications:

Residential Clothes Washers

http://www.cee1.org/resid/seha/rwsh/rwsh-main.php3

Residential Dishwashers

http://www.cee1.org/resid/seha/dishw/dishw-main.php3

Commercial, Family-Sized Clothes Washers

http://www.cee1.org/com/cwsh/cwsh-main.php3

Commercial Ice-Makers

http://www.cee1.org/com/com-ref/ice-main.php3; Spec Table: http://www.cee1.org/com/com-kit/ice-specs.pdf

Pre-rinse Spray Valves

http://www.cee1.org/com/com-kit/prv-guides.pdf

Commercial Steam Cookers

http://www.cee1.org/com/com-kit/sc-hc-specs.pdf



NAECA: National Appliance Energy Conservation Act