<table>
<thead>
<tr>
<th>Fixtures and Appliances</th>
<th>EPA Act 1992, EPA Act 2005 (or backlog NAECA updates)</th>
<th>WaterSense® or ENERGY STAR®</th>
<th>Consortium for Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential Toilets</td>
<td>1.6 gpf&lt;sup&gt;1&lt;/sup&gt;</td>
<td>WaterSense 1.28 gpf with at least 350 gram waste removal&lt;sup&gt;2&lt;/sup&gt;</td>
<td>No specification</td>
</tr>
<tr>
<td>Residential Bathroom Faucets</td>
<td>2.2 gpm at 60 psi&lt;sup&gt;3&lt;/sup&gt;</td>
<td>WaterSense 1.5 gpm at 60 psi (no less than 0.8 gpm at 20 psi)&lt;sup&gt;4&lt;/sup&gt;</td>
<td>No specification</td>
</tr>
<tr>
<td>Residential Showerheads</td>
<td>2.5 gpm at 80 psi</td>
<td>No specification</td>
<td>No specification</td>
</tr>
<tr>
<td>Residential Clothes Washers</td>
<td>MEF ≥ 1.26 ft&lt;sup&gt;3&lt;/sup&gt;/kWh/cycle*No specified water use factor</td>
<td>Proposed to DOE Asst. Sec. jointly by AHAM and efficiency advocates to be effective in 2011 MEF ≥ 1.26 ft&lt;sup&gt;3&lt;/sup&gt;/kWh/cycle WF ≤ 9.5 gal/cycle/ft&lt;sup&gt;3&lt;/sup&gt;</td>
<td>ENERGY STAR (DOE) Effective January 1, 2011: MEF ≥ 2.0 ft&lt;sup&gt;3&lt;/sup&gt;/kWh/cycle WF ≤ 6.0 gal/cycle/ft&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

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<sup>1</sup> EPA Act 1992 standard for toilets applies to both commercial and residential models.  
<sup>3</sup> EPA Act 1992 standard for faucets applies to both commercial and residential models.  
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Residential Dishwashers</td>
<td><strong>Standard models</strong>: EF $\geq 0.46$ cycles/kWh</td>
<td>Proposed to DOE Asst. Sec. jointly by AHAM &amp; efficiency advocates to be effective in 2009</td>
<td>Standard models: 324 kWh/year (0.68 EF + 1 watt standby)</td>
</tr>
<tr>
<td></td>
<td><strong>Compact models</strong>: EF $\geq 0.62$ cycles/kWh</td>
<td>EF $\geq 0.68$ cycles/kWh</td>
<td>WF $\leq 5.8$ gallons/cycle</td>
</tr>
<tr>
<td></td>
<td>*No specified water use factor</td>
<td>*No specified water use factor</td>
<td>WF $\leq 4.0$ gallons/cycle</td>
</tr>
<tr>
<td></td>
<td>(Energy Independence &amp; Security Act of 2007:</td>
<td></td>
<td>Phases Two (Proposed by DOE):</td>
</tr>
<tr>
<td></td>
<td>As of January 1, 2010</td>
<td></td>
<td>July 1, 2011</td>
</tr>
<tr>
<td></td>
<td><strong>Standard models</strong>: 355 kWh/year</td>
<td><strong>Standard models</strong>: 324 kWh/year (0.68 EF + 1 watt standby)</td>
<td><strong>Compact models</strong>: 234 kWh/year</td>
</tr>
<tr>
<td></td>
<td>WF $\leq 6.5$ gallons/cycle</td>
<td>WF $\leq 5.8$ gallons/cycle</td>
<td>WF $\leq 4.0$ gallons/cycle</td>
</tr>
<tr>
<td></td>
<td><strong>Compact models</strong>: 260 kWh/year</td>
<td><strong>Compact models</strong>: 260 kWh/year</td>
<td><strong>Compact models</strong>: 222 kWh/yr</td>
</tr>
<tr>
<td></td>
<td>WF $\leq 4.5$ gallons/cycle</td>
<td>WF $\leq 4.5$ gallons/cycle</td>
<td>3.5 gallons/cycle</td>
</tr>
</tbody>
</table>

*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.

---

5 DOE: Department of Energy
6 EPA: Environmental Protection Agency
9 ft³: cubic feet
10 gal: gallons
11 gpm: gallons per minute
12 gpf: gallons per flush
13 kWh: kilowatt hour
14 MEF: modified energy factor
15 MaP: maximum performance
16 psi: pounds per square inch
17 WF: water factor

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<table>
<thead>
<tr>
<th>Fixtures and Appliances</th>
<th>EPAct 1992, EPAct 2005 (or backlog NAECA updates)</th>
<th>WaterSense® or ENERGY STAR®</th>
<th>Consortium for Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Toilets</td>
<td>1.6 gpf(^6)</td>
<td>No Specification(^7)</td>
<td>No specification</td>
</tr>
<tr>
<td>Urinals</td>
<td>1.0 gpf</td>
<td>No specification</td>
<td>No specification</td>
</tr>
<tr>
<td>Commercial Faucets</td>
<td>2.2 gpm at 60 psi</td>
<td>WaterSense specification applicable to private lavatories (e.g. hotel room bathrooms)(^8)</td>
<td>1.5 gpm at 60 psi (no less than 0.8 gpm at 20 psi)</td>
</tr>
</tbody>
</table>

\(^6\) EPAct 1992 standard for toilets applies to both commercial and residential models.

\(^7\) No specification for flushometer valve toilets. WaterSense Specification (http://www.epa.gov/watersense/docs/spec_het508.pdf) applicable to tank type toilets found in some commercial applications.

\(^8\) 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). Public lavatory faucets are those intended for the unrestricted use of more than one individual (including employees) in assembly occupancies, business occupancies, public buildings, transportation facilities, schools and other educational facilities, office buildings, restaurants, bars, other food service facilities, mercantile facilities, manufacturing facilities, military facilities, and other facilities that are not intended for private use.

\(^9\) Specification for bathroom sink faucets and faucet accessories (e.g., aerators, flow regulators, laminar devices), applicable to some commercial situations (e.g., hotel room bathrooms). Not applicable to public lavatory faucets (see footnote 8).
<table>
<thead>
<tr>
<th>Fixtures and Appliances</th>
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<th>WaterSense® or ENERGY STAR®</th>
<th>Consortium for Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Clothes Washers (Family-sized)</td>
<td>MEF ≥ 1.26 ft³/kWh/cycle; WF ≤ 9.5 gal/cycle/ft³</td>
<td>New standards under development: DOE scheduled final action: January 2010; Stakeholder meeting held 4/27/2006</td>
<td>ENERGY STAR (DOE) MEF ≥ 1.72 ft³/kWh/cycle; WF ≤ 8.0 gal/cycle/ft³</td>
</tr>
<tr>
<td></td>
<td>Tier 1: MEF ≥ 1.8 ft³/kWh/cycle; WF ≤ 7.5 gal/cycle/ft³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tier 2: MEF ≥ 2.00 ft³/kWh/cycle; WF ≤ 6.0 gal/cycle/ft³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tier 3: MEF ≥ 2.20 ft³/kWh/cycle; WF ≤ 4.5 gal/cycle/ft³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DOE: Department of Energy
EPA: Environmental Protection Agency
gpm: gallons per minute
kWh: kilowatt hour
MEF: modified energy factor
MaP: maximum performance
NAECA: National Appliance Energy Conservation Act
psi: pounds per square inch
WF: water factor
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<tr>
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<th>EPAct 1992, EPAct 2005 (or backlog NAECA updates)</th>
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</tr>
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<tbody>
<tr>
<td>Commercial Dishwashers</td>
<td>No standard</td>
<td>ENERGY STAR (EPA)</td>
<td>No specification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water Consumption; Idle Energy:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Under counter:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hi Temp: ≤ 1.0 gal/rack; ≤ 0.9 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lo Temp: ≤ 1.70 gal/rack; ≤ 0.5 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stationary Single Tank Door:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hi Temp: ≤ 0.95 gal/rack; ≤ 1.0 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lo Temp: ≤ 1.18 gal/rack; ≤ 0.6 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Single Tank Conveyor:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hi Temp: ≤ 0.70 gal/rack; ≤ 2.0 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lo Temp: ≤ 0.79 gal/rack; ≤ 1.6 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Multiple Tank Conveyor:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hi Temp: ≤ 0.54 gal/rack; ≤ 2.6 kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lo Temp: ≤ 0.54 gal/rack; ≤ 2.0 kW</td>
<td></td>
</tr>
</tbody>
</table>

DOE: Department of Energy
EPA: Environmental Protection Agency

|-------------------------------------------------|-----------------------------|-----------------------------|--------------------------------|-----------------------------|--------------------------------|
| Commercial Dishwashers | No standard | ENERGY STAR (EPA) | Under counter: | Hi Temp: ≤ 1.0 gal/rack; ≤ 0.9 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: | Hi Temp: ≤ 0.54 gal/rack; ≤ 2.6 kW | Lo Temp: ≤ 0.54 gal/rack; ≤ 2.0 kW | Updated Sept. 29, 2008

NAECA: National Appliance Energy Conservation Act
psi: pounds per square inch
GPM: gallons per minute
kWh: kilowatt hour
MEF: modified energy factor
MaP: maximum performance

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<th>Consortium for Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Commercial Ice Makers&lt;sup&gt;10&lt;/sup&gt;</td>
<td>No standard</td>
<td>Effective 1/1/2010: Energy and condenser water efficiency standards vary by equipment type on a sliding scale depending on harvest rate and type of cooling (see link to additional information at end of this table)</td>
<td>No specification</td>
</tr>
<tr>
<td>Pre-rinse Spray Valves</td>
<td>Flow rate ≤ 1.6 gpm (no pressure specified; no performance requirement)</td>
<td>No specification</td>
<td>Proposed ENERGY STAR specification abandoned after standard established in EPAct 2005</td>
</tr>
</tbody>
</table>

<sup>10</sup> Optional standards for other types of automatic ice makers are also authorized under EPAct 2005.

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DOE: Department of Energy  
EPA: Environmental Protection Agency  
EPAct 2005: ENERGY STAR  
GPM: gallons per minute  
GPF: gallons per flush  
GAL: gallons  
KWH: kilowatt hour  
MEF: modified energy factor  
NAECA: National Appliance Energy Conservation Act  
PSI: pounds per square inch  
WF: water factor  
*Updated Sept. 29, 2008*
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<th>Consortium for Energy Efficiency</th>
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</thead>
<tbody>
<tr>
<td>Commercial Steam Cookers¹¹</td>
<td>No standard</td>
<td></td>
<td>ENERGY STAR (EPA)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gas: 38% cooking energy efficiency; idle rate 6,250–12,500 British thermal units/hour</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>*No specified water use factor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tier 1A: ≤ 15 gal/hr</td>
</tr>
</tbody>
</table>

¹¹ Idle rate standards vary for 3-, 4-, 5-, and 6-pan commercial steam cooker models.

DOE: Department of Energy
EPA: Environmental Protection Agency
NAECA: National Appliance Energy Conservation Act
psi: pounds per square inch
EPA: Environmental Protection Agency
gpm: gallons per minute
kWh: kilowatt hour
MEF: modified energy factor
MaP: maximum performance
ft²: cubic feet
gal: gallons
隔热层: gallons per minute
NAECA: National Appliance Energy Conservation Act
psi: pounds per square inch
Water Use Factor (for both electric and gas models):
Tier 1A: ≤ 15 gal/hr
Tier 1B: ≤ 4 gal/hr

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Information/materials on EPAct 2005/NAECA standards:

Toilets and Faucets

Schedule for development of appliance and commercial equipment efficiency standards:

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

Automatic Commercial Ice Maker Standards:

Pre-rinse Spray Valves

Information/materials on WaterSense specifications:

Toilets
http://www.epa.gov/watersense/specs/het.htm

Faucets
http://www.epa.gov/watersense/specs/faucet_background.htm

Information/materials on ENERGY STAR specifications:

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

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

Pre-rinse Spray Valves
http://www.energystar.gov/index.cfm?c=new_specs.spray_valves

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

Information/materials on CEE specifications:

Residential Clothes Washers

DOE: Department of Energy
EPA: Environmental Protection Agency
EF: energy factor
ft³: cubic feet
gal: gallons
KWh: kilowatt hour
MEF: modified energy factor
MaP: maximum performance
NMF: national maximum performance
NAECA: National Appliance Energy Conservation Act
psi: pounds per square inch
WF: water factor
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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

Pre-rinse Spray Valves

Commercial Steam Cookers

DOE: Department of Energy
EPA: Environmental Protection Agency

EF: energy factor
ft³: cubic feet
gal: gallons
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Updated Sept. 29, 2008