

JOINT COMMITTEE ON TELECOMMUNICATIONS, UTILITIES, AND ENERGY

BILL SUMMARY

BILL NO. H.4737

HISTORY:

- Chapter 25B of the Massachusetts General Laws is known as the Massachusetts Appliances Efficiency Standards Act and it allows the Commissioner of the Department of Energy Resources to establish minimum efficiency standard for appliances sold or installed in the Commonwealth.
- It currently establishes standards for the following appliances: refrigerators, freezers, water heaters, furnaces and boilers, and certain lamps.
- **This bill would do one thing:**
 - **Establish minimum efficiency standards for the following appliances: commercial hot food holding cabinets, computers, computer monitors, lavatory faucets, portable electric spas, plumbing fixtures, water closets, water coolers, and certain lighting fixtures (deep-dimming fluorescent lamp ballasts, general service lamps, high-CRI fluorescent lamps, and small-diameter directional lamps).**

SECTION-BY-SECTION:

Sections 1-13: Establish definitions

- Section 14: Expands the scope of the existing Act to apply to: commercial hot food holding cabinets; computers; computer monitors; certain lighting fixtures; plumbing fittings and plumbing fixtures; portable electric spas; plumbing fixtures; water closets; and water coolers.
- Section 15: Technical change requiring the Commissioner of DOER to establish minimum efficiency standards for the appliances listed in section 14 of this bill.
- Section 16: Establishes specific minimum efficiency standards for the appliances listed above.
- Section 17: Prohibits the sale of products that do not meet the minimum energy efficiency standards of section 16 of this bill on or after January 1, 2020.
- Section 18: Provides that if any federal efficiency standards are withdrawn, repealed, or otherwise voided, then Massachusetts shall continue to abide by them independently.

For further information, contact Caleb Oakes of the Telecommunications, Utilities, & Energy Committee staff at 617-722-2263.

Specific Appliance Standards

- Commercial hot-food holding cabinets: those with an interior volume of 8 ft³ or greater must have a maximum idle energy rate of 40 watts per cubic foot of interior volume
- Computers and computer monitors: must meet the requirements of Section 1605.3 of Title 20 of the California Code of Regulations
- Deep-dimming fluorescent lamp ballasts: must meet the requirements of Section 1605.3 of Title 20 of the California Code of Regulations
- General service lamps: must meet or exceed a lamp efficacy of 45 lumens per watt
- High-CRI fluorescent lamps: minimum average lamp efficacy must meet or exceed 92.4 lumens/watt if correlated color temperature is less than or equal to 4,500 K; if greater than 4,500 K, minimum average lamp efficacy must meet or exceed 88.7 lumens/watt
- Lavatory faucets and replacement aerators: must not be greater than 1.5 gallons per minute (gpm) at 60 pounds per square inch (psi)
- Residential kitchen faucets and replacement aerators: must not be greater than 1.8 gpm at 60 psi (with optional temporary flow of 2.2 gpm at 60 psi)
- Public lavatory faucets and replacement aerators: must not be greater than 0.5 gpm at 60 psi
- Showerheads: must not be greater than 2.0 gpm at 80 psi
- Urinals and water closets: those used at prison or mental health care facilities are exempted. Otherwise must meet the water consumption test of Part 430 of Title 10 of the Code of Federal Regulations and the waste extraction test of ASME A112.19.2/CSA B45.1-2013. Trough-type urinals shall have a maximum flush volume equal to or less than the product of the maximum flush volume of a urinal and the length of the urinal in inches divided by 16 inches. All other urinals shall have a maximum flush volume of 0.5 gpf. Water closets shall have a maximum flush volume of 1.28 gpf. Dual-flush tank-type water closets shall have a maximum effective flush volume of 1.28 gpf.
- Portable electric spas: must meet the requirements of the American National Standard for Portable Spa Energy Efficiency (ANSI/APSP/ICC-14 2014).
- Small-diameter directional lamps: must have a rated life of 25,000 hours or greater and either have at least 80 lumens per watt OR a minimum efficacy of 70 lumens per watt and a compliance score of 165 or greater
- Water coolers: must have an on mode with no water draw energy consumption less than or equal to 0.16 kWh per day for cold-only and cook-and-cold units, 0.87 kWh per day for hot-and-cold storage type units, and 0.18 kWh per day for hot and cold on-demand units.