



CALIFORNIA ENERGY COMMISSION

## Appliance Unit

Compliance Assistance Tutorial

# What Retailers Need to Know

About California's Title 20 Regulations





## California & Federal Standards

- ★ Federally regulated appliances must be certified to the Energy Commission **and** to the DOE
  - ✧ DOE: Compliance Certification Management System
  - ✧ CEC: Appliance Efficiency Database
  
- ★ Title 20 Appliance Efficiency Regulations (current)
  - ✧ Section 1605.1 – Federal standards
  - ✧ Section 1605.3 – State-only standards (not federal)



**23 Regulated Appliance Categories  
64 Appliance Types**

Example

The category “FANS” contain three types:

- (1) Ceiling fans
- (2) Whole house fans
- (3) Exhaust fans (kitchen, bath, attic, etc.)

<http://www.energy.ca.gov/appliances/>

Sub-section	Appliance Category
(a)	Refrigerator Freezers
(b)	Non-Central Air Conditioners
(c)	Central Air Conditioners
(d)	Fans
(e)	Gas/Oil Space Heaters
(f)	Water Heaters
(g)	Pool Equipment
(h)	Plumbing Fittings
(i)	Plumbing Fixtures
(j)	Ballasts
(k)	Lamps
(l)	Emergency Lighting
(m)	Traffic Signal Modules & Lamps
(n)	Luminaires and Torchieres
(o)	Dishwashers
(p)	Clothes Washers
(q)	Clothes Dryers
(r)	Cooking Products & Food Service Equipment
(s)	Electric Motors
(t)	Distribution Transformers
(u)	Power Supplies
(v)	Consumer Audio and Video Equipment
(w)	Battery Charger Systems



## Efficiency Standards Compliance Overview

- **U.S. DOE Federally regulated appliances and equipment**
  - Manufacturers must certify to the DOE before distributing an appliance in commerce in the USA.
  - Annual re-certification is required.
  - Federal labeling requirements apply.
- **CA Title 20 Appliance Standards**
  - Manufacturers must certify to the Energy Commission prior to being sold or offered for sale in California.
  - Effective dates for most standards are based on *manufacture date* (for state and federal items).
  - State marking requirements: Manufacturer name, model number, and date of manufacture; additional requirements for some appliance types.
  - Once certified, models remain in the Active Database until moved to the Archive Database when (1) deleted by the manufacturer, (2) a new efficiency standard or new test method becomes effective, or (3) the model is no longer in production.



# CALIFORNIA ENERGY COMMISSION

July 1, 2016 Effective Date for Standards		
Appliance Type	Test Method	Standard
Lavatory Faucets	10 C.F.R. Section 430.23(s) (Appendix S to Subpart B of part 430)	1.2 gallons per minute @ 60 psi
Lavatory Aerators	10 C.F.R. Section 430.23(s) (Appendix S to Subpart B of part 430)	1.2 gallons per minute @ 60 psi
Showerheads	(A) Maximum flow rate test. The test method for determining maximum flow rate of a showerhead is 10 C.F.R. Section 430.23(t) (Appendix S to Subpart B of Part 430). (B) Minimum flow rate test. The test method for determining minimum flow rate of a showerhead is ASME A112.18.1-2012 / CSA B125.1-2012, Section 5.12.	1) Maximum flow rate 2.0 GPM @ 80 psi; 2) Minimum flow rate at 20 psi not less than 60 percent of the flow rate reported in 1); 3) Minimum flow rate at 45 and 80 psi not less than 75 percent of the flow rate reported in 1).
Heat Pump Water Chilling Packages	ANSI/AHRI 550-590 (I-P)-2011	Test and list only.
Deep-Dimming Fluorescent Ballasts	10 CFR section 430.23(q)(Appendix Q to Subpart B of part 430)	Shall not consume more than 1 watt in standby mode; shall have a power factor of 0.9 or greater; shall have a weighted ballast luminous efficacy greater than or equal to the threshold discussed in the equation.
Air Filters	AHRI 680-2009 or ASHRAE 52.2-2012	Marking of Appliances, Section 1607
Tub Spout Diverters	A tub spout diverter manufactured on or after June 1, 2016 shall be tested in accordance with ASME A112.18.1-2012/CSA B125.1-12, Section 5.3.6 for the rate of leakage conducted prior to life cycle testing and Section 5.6.1.5 for the rate of leakage conducted after life cycling testing.	Maximum leakage rate when new = 0.01 GPM; after 15,000 cycles of diverting the maximum leakage rate = 0.05 GPM.



# Accessing the Appliance Search Function



# Accessing the Public Appliance Search

The screenshot shows the California Energy Commission website interface. At the top left is the logo with 'CA .GOV' and 'CALIFORNIA ENERGY COMMISSION'. Below the logo is a 'Log In' section with fields for '\*User ID' and '\*Password', a checkbox for 'I have read and agree to the Login Policy', and links for 'Forgot your User ID?' and 'Forgot your Password?'. A 'Sign In' button is positioned below these links. To the left of the 'Sign In' button is a section titled 'Don't have an account' with the text 'Create an authorized CEC account' and a 'Register new account' button. In the center, a 'Public Search' section is highlighted with a blue border. It contains the text 'Search for publically available appliance information' and an 'Appliance Search' button. To the right of the 'Public Search' section is a '3rd Party and Test Laboratory Approvals' section with the text 'Search for publically available approval information for 3rd party certifiers and test labs.' and a 'Search' button. At the bottom of the page, it says 'Current Build: Version 1.0 Deployed on 04/27/2015'. A red arrow points from the 'Sign In' button area towards the 'Public Search' section.

<http://www.energy.ca.gov/appliances>



# Accessing the Public Appliance Search

The screenshot shows the "Appliance Search" page on the CA.GOV website. The page header includes the CA.GOV logo, "CALIFORNIA ENERGY COMMISSION", and navigation links for "HOME", "APPLICATIONS", "ACCT MGMT", and "SEARCH". There are also links for "Help" and "Logout" in the top right corner, and a red "Acceptance" button. The main content area is titled "Appliance Search" and contains a paragraph of instructions: "To begin your search enter model criteria and click search. Use the additional fields if necessary. The quick search also allows search results to be narrowed to currently approved models or to search archived models." Below this text are five search criteria buttons: "Model Number", "Appliance Type", "Company", "Brand", and "Appliance Status". The "Model Number" button is highlighted with an orange border. Below these buttons is a text input field labeled "Model Number" and two buttons: "Search" and "Clear".

There are five categories to choose from to begin your appliance search.





# Search Appliance by:

Model Number

**Appliance Search**

To begin your search enter model criteria and click search. Use the additional fields if necessary. The quick search also allows search results to be narrowed to currently approved models or to search archived models.

**Model Number** | Appliance Type | Company | Brand | Appliance Status

Model Number

Appliance Type

**Appliance Search**

To begin your search enter model criteria and click search. Use the additional fields if necessary. The quick search also allows search results to be narrowed to currently approved models or to search archived models.

Model Number | **Appliance Type** | Company | Brand | Appliance Status

Select Category:  | Select Appliance Type:

- Please Select
- Central Air Conditioners
- Central Heat Pumps
- Cooking and Washing Products
- Electronics
- Fans and Dehumidifiers
- Heating Products
- Lighting Products
- Motor Products
- Non-Central AC & HP Products
- Plumbing Products
- Pool Products
- Refrigeration Products
- Transformer Products
- Water Heater Products

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Decisions Pending and Opportunities for Public Participation  
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# Search Appliance by:

**Company  
(Manufacturer)**

**Appliance Search**

To begin your search enter model criteria and click search. Use the additional fields if necessary. The quick search also allows search results to be narrowed to currently approved models or to search archived models.

Model Number    Appliance Type    **Company**    Brand    Appliance Status

Select Manufacturer  
Please Select

Search    Clear

**Brand**

**Appliance Search**

To begin your search enter model criteria and click search. Use the additional fields if necessary. The quick search also allows search results to be narrowed to currently approved models or to search archived models.

Model Number    Appliance Type    Company    **Brand**    Appliance Status

Select Brand  
Please Select

Search    Clear

**Appliance Status**

**Appliance Search**

To begin your search enter model criteria and click search. Use the additional fields if necessary. The quick search also allows search results to be narrowed to currently approved models or to search archived models.

Model Number    Appliance Type    Company    Brand    **Appliance Status**

Select Appliance Status

Approved  
Archived

Search    Clear





## Accessing the Advanced Search

CA .GOV CALIFORNIA ENERGY COMMISSION

Log In

\*User ID  
\*Password

I have read and agree to the Login Policy

[Forgot your User ID?](#) [Forgot your Password?](#)

Don't have an account  
Create an authorized CEC account

Public Search  
Search for publically available appliance information

3rd Party and Test Laboratory Approvals  
Search for publically available approval information for 3rd party certifiers and test labs.

Current Build: Version 1.0 deployed on 04/27/2015

CA .GOV CALIFORNIA ENERGY COMMISSION

HOME SEARCH

- Search Company
- Appliance Search
- Advanced Search



## Accessing the Advanced Search

1. Select Appliance Type.

2. Select the fields you want displayed in your results.

3. Narrow your results by using the filters.

**Advanced Search**

The Advanced Search allows you to create a narrower search by selecting unique model criteria. You will be guided to select the category, type, then narrow your search results with additional filters. In this search you can select the fields displayed in the results by checking the "Select All" box. There are also additional filters that can be applied to look up specific model information.

**Recent Searches**

Televisions

**Select Appliance Type**

Select Category: Electronics | Select Appliance: Consumer Audio & Video | Select Appliance Status: Approved

**Select Fields to Display**

Select/Deselect All

Manufacturer |  Brand |  Model Number |  Audio Video Type

Standby Power Usage (Watts) |  Standby Power Usage (Watts) Std |  On Mode Power Usage (Watts) |  On Mode Power Usage (Watts) Std

Regulatory Status |  Add Date

**Filters**

Standby Power Usage (Watts)	Greater Than	3.5
Please Select		

12

**Search** **Clear**



## Accessing the Advanced Search

4. To modify results, use search options.

**Advanced Search**

The Advanced Search allows you to create a narrower search by selecting unique model criteria. You will be guided to select the category, type, then narrow your search results with additional filters. In this search you can select the fields displayed in the results by checking the "Select All" box. There are also additional filters that can be applied to look up specific model information.

Recent Searches

Televisions

Select Appliance Type

Select Fields to Display

Filters

**Search Results** 47 record(s) found Export To:

<input type="checkbox"/>	ModelNumber	Manufacturer	Brand	ModelStatus	RegulatoryStatus	Add Date	TV Type	Screen Size (Diag Inches)	Automatic Brightness Control	Luminance Ratio	Standby Passive Power Watts	On Mode Power Watts
Select <input type="checkbox"/>	UN50H6350AF	SAMSUNG ELECTRONICS CO., LTD.	Samsung	Approved	Non Federally-Regulated	12/05/2014	LCD	50	True	75.7	0.3	47
Select <input type="checkbox"/>	UN50HU6900F	SAMSUNG ELECTRONICS CO., LTD.	Samsung	Approved	Non Federally-Regulated	11/12/2014	LCD	50	True	73.6	0.5	72
Select <input type="checkbox"/>	PN51F5300BF	SAMSUNG ELECTRONICS CO., LTD.	Samsung	Approved	Non Federally-Regulated	05/19/2014	Plasma	51	True	78.7	0.3	83
Select <input type="checkbox"/>	UN55HU7250F	SAMSUNG ELECTRONICS CO., LTD.	Samsung	Approved	Non Federally-Regulated	11/12/2014	LCD	55	True	73.5	0.3	87
Select <input type="checkbox"/>	UN50HU7000F	SAMSUNG ELECTRONICS CO., LTD.	Samsung	Approved	Non Federally-Regulated	12/05/2014	LCD	50	True	77.6	0.5	72

Results



## Resources

Title 20 Compliance Assistance Hotline

Toll free inside California      **(888) 838-1467**

From outside of California      **(916) 651-7100**

[appliances@energy.ca.gov](mailto:appliances@energy.ca.gov)

Subscribe to the **Title 20 Compliance Assistance** listserv:

<http://www.energy.ca.gov/efficiency/listservers.html>

**Webinar** documents are located at:

<http://www.energy.ca.gov/appliances/forms/index.html#webdocs>



## Energy Code Ace

<http://energycodeace.com/content/title-20-training>

<http://energycodeace.com/content/title-20-ondemand>



The initial launch of the Energy Code Ace Title 20 Appliance Efficiency curriculum focuses on the essentials manufacturers need to know to use the California Energy Commission's newly released Modernized Appliance Efficiency Database System (MAEDBS). These trainings are offered as On-Demand Videos. Over time, we anticipate the curriculum will grow to include modules for third-party certifiers, test labs, retailers, distributors and consumers. We will also be developing other types of class formats, such as Traditional Classroom, and Virtual Classes.



We are pleased to announce the launch of our Title 20 On-Demand Video Training series!

[Click here](#) to access our first nine On-Demand Video Training Modules.

Please [register with the site](#) and select a Title 20 industry role for your profile in order to receive messages about additions to our Title 20 trainings. You'll also be notified when we publish new Title 20 tools and resources!



# Questions?





# Title 20 Enforcement Authority Senate Bill 454



## Title 20 Enforcement Authority

- SB 454 (2011) gave Energy Commission the authority to assess administrative civil penalties for violations of the appliance efficiency regulations.
- Title 20, Section 1609. Administrative Civil Penalties.
- “Any person, including a **retailer, manufacturer, contractor, importer or distributor**, that sells or offers for sale an appliance, which is not listed in the Appliance Efficiency Database, is in violation of Section 1608(a)(1) and may be subject to an administrative civil penalty for each unit of the appliance that was sold or is offered for sale.”
- Four violation types: failure to certify, subperformance, failure to mark properly, and providing material false information.



## Guiding Principles for Enforcement

A penalty's abiding purpose is to promote compliance with the law.  
Four key principles guide staff in working with enforcement matters.

- 1) Deterrence. Every penalty must impose a consequence that will deter both the violator and others from future violations.
- 2) Fairness. To treat the regulated community fairly requires both consistency and flexibility.
- 3) A level playing field for businesses. A requirement to certify energy efficiency data to the Energy Commission establishes a level playing field for the business environment in California through transparency of performance data.
- 4) Prevent harm to the consumer.



## Four violation types

- Failure to certify.
- Subperformance of an efficiency standard.
- Failure to mark properly.
- Providing material false information.



## What is a violation?

A violation is the sale or an offer to sell a regulated appliance when the appliance model:

- ✓ Has not been tested per Section 1604; or
- ✓ Has not been marked properly per Section 1607; or
- ✓ Has not been certified;
- ✓ Does not meet applicable standards when tested; or
- ✓ Is not listed in the Appliance Efficiency Database.

If an appliance does not meet one of these requirements, then a violation occurs for each unit that was sold and/or offered for sale.

In addition, providing false information to the Energy Commission is considered a violation.



## Who may be subject to penalties?

Anyone **selling** an appliance that is in violation of the *Appliance Efficiency Regulations*, including retailers, internet and catalog sellers, wholesalers, distributors, and contractors may be subject to a monetary penalty.

The Energy Commission may also take other appropriate legal and administrative actions, including removal of an appliance from the Appliance Efficiency Database, to restrain and discourage the sale of appliances that are in violation of the *Regulations*.



## Internet sales?

The Energy Commission considers internet sales to be covered by Section 1609 of the Regulations in the same manner as sales by California “brick and mortar” retailers.

Internet sellers are subject to the same requirements as retail stores.



## How are penalties calculated?

The Energy Commission assesses penalties on a case-by-case basis.

The Commission has no standardized mathematical formula for calculating penalties for an approach that does not weigh individual circumstances properly may result in unjust or ineffective penalties.

Penalties may be assessed up to \$2,500 and per violation of the *Appliance Efficiency Regulations*, per unit sold or offered for sale.



## **Section 1608. Compliance, Enforcement, and General Administrative Matters.**

### **General Requirements for the Sale or Installation of All Appliances.**

Any unit of any appliance within the scope of Section 1601 may be sold or offered for sale in California only if:

The appliance model number appears in the appliance efficiency database.

The manufacturer has:

- (a) **tested** the appliance as required by Sections 1603 and 1604; and
- (b) **marked** the unit as required by Section 1607; and
- (c) for any appliance for which there is an applicable standard, **certified to the Energy Commission** that the appliance complies with the standard.



## Resources

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