

Navigating Your New Regulatory Requirements And What Lennox Is Doing to Help.



What is the change?

Effective January 1, 2023, there will be new minimum efficiency standards for split-system air conditioners and split-system heat pumps. As well as a change to the efficiency rating test procedure, known as the "M1 Standard," which will affect split-system air conditioners, split-system heat pumps and packaged units. As in the past, these standards vary by both product type and geographic region.

Why Now?

About every six years, the Department of Energy evaluates energy conservation standards for most of the appliances you have in your home or those in commercial buildings. When DOE evaluates the need for a new standard, they decide whether there are significant national energy savings if the standard is increased.

Four Elements of the Regulatory Change:

1. Regions don't change.
2. Minimum efficiency requirements change for split-system air conditioners and split-system heat pumps (including mini-splits).
3. Efficiency Rating Metrics, "M1 Standard" change for split-system air conditioners, split-system heat pump (including mini-splits) and packaged units.
4. Effective date of law varies by region.

In addition, here's what's coming soon:

- Training on Regulatory Changes
- Product Transition Timing
- New Product Information
- Homeowner Education Training
- Regulatory Change Information Sheets

Doing Our Part

To help you meet these changes with confidence, we have pulled together an easy reference guide.

This guide includes:

- Charts explaining the minimum efficiency changes
- Information on the new efficiency rating procedure and metrics
- Regulatory-ready product updates
- Information on regional effective dates

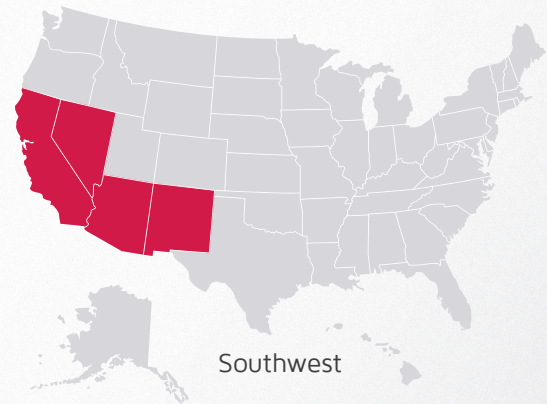


Testing to a Higher Standard

To comply with a new, more stringent testing protocol for reporting efficiency ratings, Manufacturers are required to:

- Re-test equipment to the new efficiency rating test requirements known as the "M1 Standard."
- Publish equipment efficiency ratings using the new efficiency metrics of SEER2, EER2 and HSPF2.

Compared to the current test procedure the new test procedure increases the external static pressure from 0.1-0.3 ESP to 0.5 ESP to better reflect field conditions, for heat pumps a more representative heating load line will also be implemented. Since the new testing requirements are more stringent, in 2023, there will be new metrics and nomenclature – SEER2, EER2 and HSPF2. Here's what will go into effect beginning January 1, 2023.



	Current Standards (est. 2015)	NEW 2023 Standards (per the current test standard)	NEW 2023 Standard (using new testing procedure and metrics)	Enforcement Timeline
Split System Air Conditioners (Mini-splits included)	14 SEER, 12.2 EER up to 45k BTU 14 SEER 11.7 EER at/above 45k BTU	15 SEER, 12.2 EER up to 45k BTU 14.5 SEER 11.7 EER at/above 45k BTU or if SEER is 16 or greater, EER 10.2	14.3 SEER2, 11.7 EER2 up to 45k BTU, 13.8 SEER2 11.2 EER2 at/above 45k BTU or if SEER2 is 15.2 or greater, EER 9.8	Beginning Jan. 1, 2023, any installation of a split system air conditioner not meeting the new standard, will violate Department of Energy regulations.
Split System Heat Pump (Mini-splits included)	14 SEER, 8.2 HSPF	15 SEER, 8.8 HSPF	14.3 SEER2, 7.5 HSPF2	Units that don't meet the new minimum efficiency standard and were manufactured before Jan. 1, 2023, may be installed indefinitely.
Single-Packaged Air Conditioners	14 SEER, 11.0 EER	14 SEER, 11.0 EER (no change)	13.4 SEER2, 10.6 EER2	Units that don't have the new efficiency rating metric and were manufactured before Jan. 1, 2023, may be installed indefinitely.
Single-Packaged Heat Pumps	14 SEER, 8.0 HSPF	14 SEER, 8.0 HSPF (no change)	13.4 SEER2, 6.8 HSPF2	Units that don't have the new efficiency rating metric and were manufactured before Jan. 1, 2023, may be installed indefinitely.

System Match Requirements

Primarily single-stage and two-stage split system air conditioners and heat pumps will be most affected by this change. DOE testing standards requires that single-stage and two-stage split system air conditioner units must meet the Regional Standard efficiency requirements with coil only matches. Heat pump split systems must meet the National Standard efficiency requirements as a complete system combination (see AHRI.com for qualifying matches). If the least efficient match of any unit is unable to meet the efficiency standard of a particular region, it will not be legal to be sold and installed. This may require some manufacturers to discontinue current models or design new units that meet the new efficiency requirements.