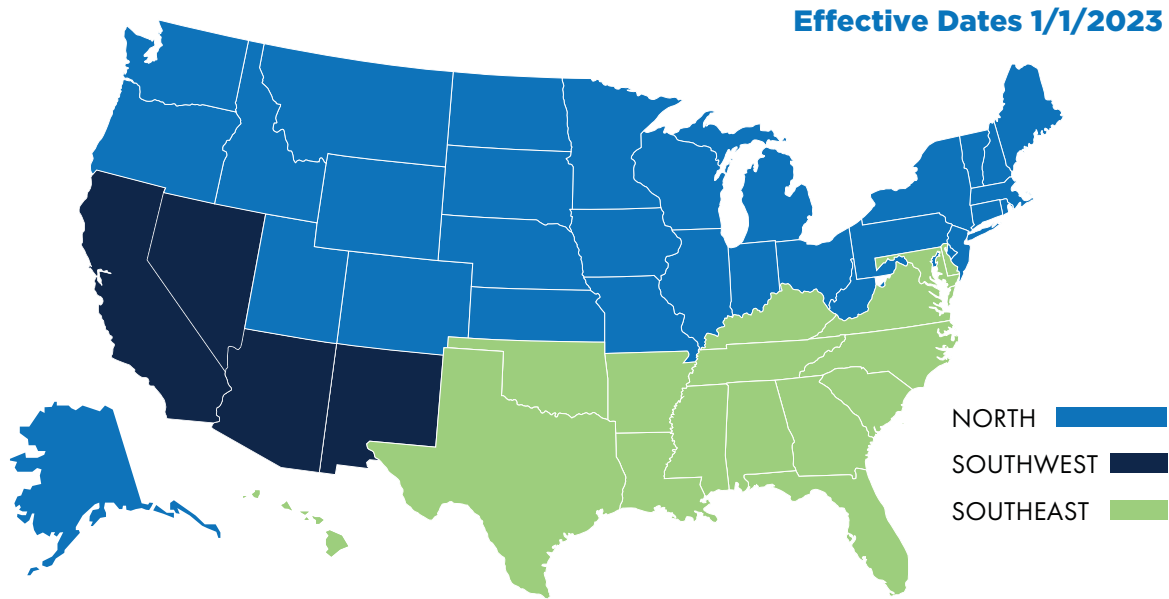


WHAT'S CHANGING IN 2023

The U.S. Department of Energy's (DOE) new minimum efficiency requirements will begin on January 1, 2023. The changes affect all newly manufactured residential and manufactured housing air conditioners and heat pumps.



Product Type	Region	Governing Date for Change	Capacity Splits (BTU)	SEER2	EER2	HSPF2
Split AC	North	Manufactured on or after		13.4		
	Southeast	Installed on or after	< 45K	14.3		
			≥ 45K	13.8		
	Southwest	Installed on or after	< 45K	14.3	11.7*	
≥ 45K			13.8	11.2*		
Split HP	All	Manufactured on or after		14.3		7.5
Packaged AC	North/Southeast	Manufactured on or after		13.4		
	Southwest	Installed on or after		13.4	10.6	
Packaged HP	All	Manufactured on or after		13.4		6.7

*9.8 EER2 if SEER2 ≥ 15.2
These changes apply ONLY to single phase in 2023. Three phase will be addressed in 2025.

Testing and Measurement Required Changes

A revised testing procedure will determine energy efficiency ratings for residential and manufactured housing equipment to more accurately reflect field conditions. The external static pressure, ESP, will be increased from 0.3" to 0.5" for residential housing and from .27" to .3" for manufactured housing. With the change in testing procedures, efficiency ratings will reduce vs. the current SEER, EER and HSPF ratings. As such, new metrics and nomenclature were developed. These changes apply ONLY to single-phase equipment.

The New Testing Will Reduce Energy Efficiency Ratings

Since testing is more stringent, the minimum DOE efficiency requirements will be reduced for SEER2, EER2, and HSPF2 ratings versus the 2023 SEER, EER, and HSPF minimum requirements for each region. As an example, the current minimum requirement for the northern region is 13.0 SEER. Under the new requirement, the minimum will be 14.0 SEER or 13.4 SEER2.

Why the Reduction in Efficiency Rating

Increasing the external static pressure by 66% increases the blower motor watt usage, reducing the energy efficiency rating.

Equipment Testing

Unlike other efficiency requirement changes, the 2023 changes require manufacturers to retest every product tier. According to the new guidelines, each tier will need to be reoptimized and relaunched in accordance with the new DOE test procedure.

What Else Changed

The airflow set point on indoor blowers, including fan coils and furnaces, will also change.

New Efficiency Standards

SEER → SEER2

EER → EER2

HSPF → HSPF2

ADDITIONAL RESOURCES



U.S. DEPARTMENT OF
ENERGY

U.S. DEPARTMENT OF ENERGY
([ENERGY.COM](https://www.energy.gov))



U.S. ENVIRONMENTAL PROTECTION
AGENCY
([EPA.GOV](https://www.epa.gov))



EPA AND DOE ENERGY EFFICIENCY
([ENERGYSTAR.GOV](https://www.energystar.gov))



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