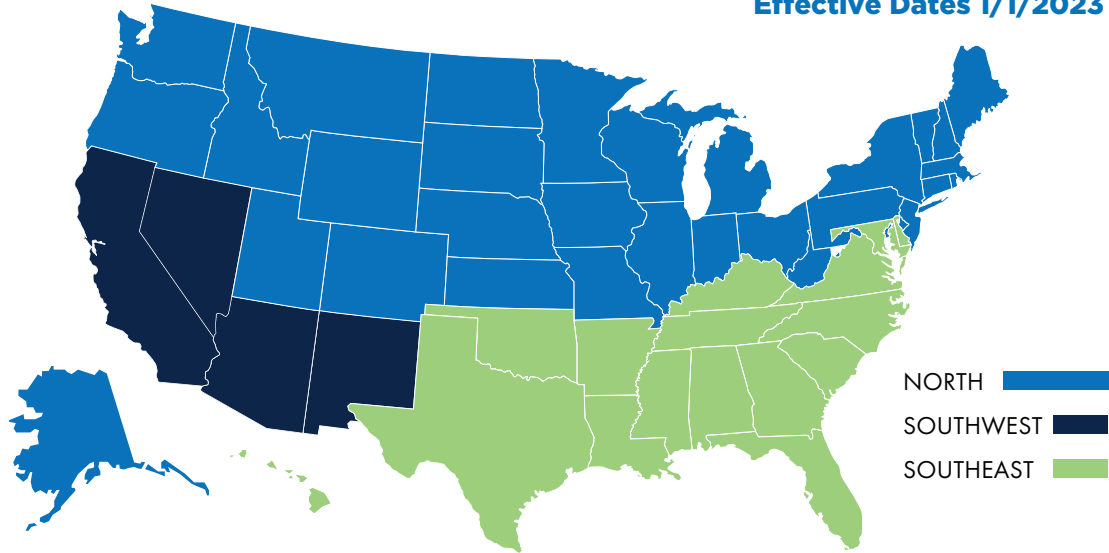


WHAT'S CHANGING IN 2023

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.

Effective Dates 1/1/2023



SOUTHWEST			
Split AC		SEER2	EER2
Split < 45K BTU	14.3	11.7*	
Split ≥ 45K BTU	13.8	11.2*	
Split HP			
14.3	7.5		
SEER2	HSPF2		
Packaged AC		Packaged HP	
13.4	10.6	13.4	6.7
SEER2	EER2	SEER2	HSPF2

NORTH			
Split AC		Packaged AC	
13.4 SEER2		13.4 SEER2	
Split HP		Packaged HP	
14.3	7.5	13.4	6.7
SEER2	HSPF2	SEER2	HSPF2

SOUTHEAST			
Split AC			
Split < 45K BTU	14.3 SEER2		
Split ≥ 45K BTU	13.8 SEER2		
Split HP			
14.3	7.5		
SEER2	HSPF2		
Packaged AC		Packaged HP	
13.4	13.4	6.7	
SEER2	SEER2	HSPF2	

Product Type	Region	New Standard Effective By	Capacity Splits (BTU)	SEER2	EER2	HSPF2
Split AC	North	Date manufactured, sell through allowed		13.4		
	Southeast	Date of installation - 1/1/23	< 45K	14.3		
			≥ 45K	13.8		
Southwest	Date of installation - 1/1/23	< 45K		14.3	11.7*	
		≥ 45K		13.8	11.2*	
Split HP	All	Date manufactured, sell through allowed		14.3		7.5
Packaged AC	North/Southeast	Date manufactured, sell through allowed		13.4		
	Southwest	Date of installation - 1/1/23		13.4	10.6	
Gas Pack	North/Southeast	Date manufactured, sell through allowed		13.4		
	Southwest	Date of installation - 1/1/23		13.4	10.6	
Packaged HP	All	Date manufactured, sell through allowed		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



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ENERGY

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Corporate Headquarters
8000 Phoenix Parkway
O'Fallon, MO 63368
communications@nortek.com