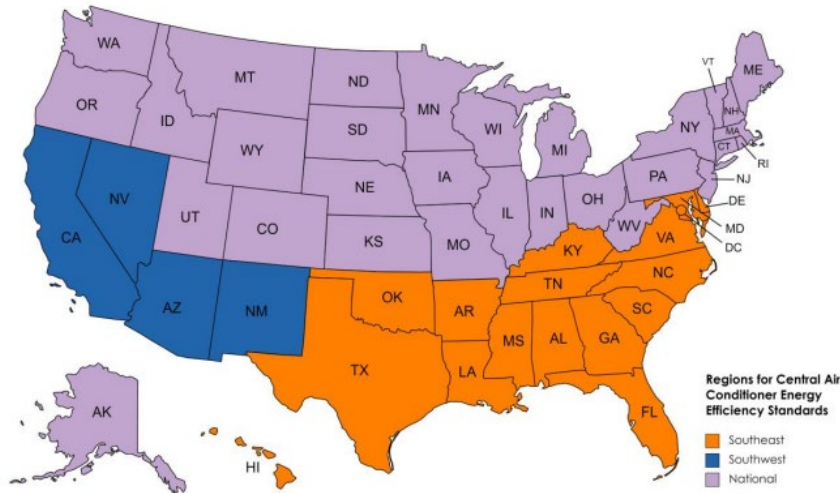


# Technical Bulletin: New Minimum Efficiency Standards

## Residential New Construction Program

Federal standards for equipment efficiencies are implemented by the US Department of Energy (DOE) in ordinance with the EPA act of 1975. Beginning January 1, 2023, the DOE is updating air conditioner and heat pump minimum efficiency standards. The Duke Energy RNC Program is writing this technical bulletin to inform our builders and raters of this upcoming change and what to expect.

### Overview



- The United States has been split into three regions: National (North), Southeast, and Southwest.
- National and South regions are split based on the number of Heating Degree Days (HDD).
- Southern regions are further divided based on cooling operating hours and relative humidity.
- Minimum efficiencies for all new central AC and Heat Pumps are changing. SEER, EER and HSPF rating will become SEER2, EER2 and HSPF2 in 2023.

### Standards for Heat Pumps and Specialty Products

Heat pumps and Specialty Products changes are enforced nationally. The below chart from the Air-Conditioning, Heating, and Refrigeration institute denotes the system type, current SEER, and new SEER2.

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Product Class	Current M Standards	New 2023 M1 Standards	Enforcement
Split-system Heat Pump (including Ductless)	14 SEER   8.2 HSPF	14.3 SEER2   7.5 HSPF2 <i>(Equivalent to 15 SEER   8.8 HSPF)</i>	Units manufactured before January 1, 2023 may be installed indefinitely  Applies Nationally
Single Package Heat Pump	14 SEER	13.4 SEER2   6.7 HSPF2 <i>(Equivalent to 14 SEER   8 HSPF)</i>	
Space-constrained Air Conditioner	12 SEER	11.7 SEER2 <i>(Equivalent to 12 SEER)</i>	
Space-constrained Heat Pump	12 SEER   7.4 HSPF	11.9 SEER2   6.3 HSPF2 <i>(Equivalent to 12 SEER   7.4 HSPF)</i>	
Small Duct High-velocity Systems	12 SEER   7.2 HSPF	12 SEER2   6.1 HSPF2 <i>(Equivalent to 12 SEER   7.2 HSPF)</i>	

### Standards for Heat Pumps and Specialty Products from AHRI.

### Standards for Air-Conditioners

Air Conditioners installed in homes submitted to the Duke Energy RNC Program must follow the Southeast region specific guidelines.

## Southeast Regional Standards for Air Conditioners



Product Class	Current M Standards	New 2023 M1 Standards	Enforcement
Split-system Air Conditioner (including Ductless)	14 SEER	<45k BTU: 14.3 SEER2 <i>(Equivalent to 15 SEER)</i> ≥ 45k BTU: 13.8 SEER2 <i>(Equivalent to 14.5 SEER)</i>	Units that do not meet the new M1 requirements cannot be installed on or after January 1, 2023.
Single Package Air Conditioner	14 SEER	13.4 SEER2 <i>(Equivalent to 14 SEER)</i>	Units manufactured before January 1, 2023 can be installed after January 1, 2023



### Standards for Heat Pumps and Specialty Products from AHRI.