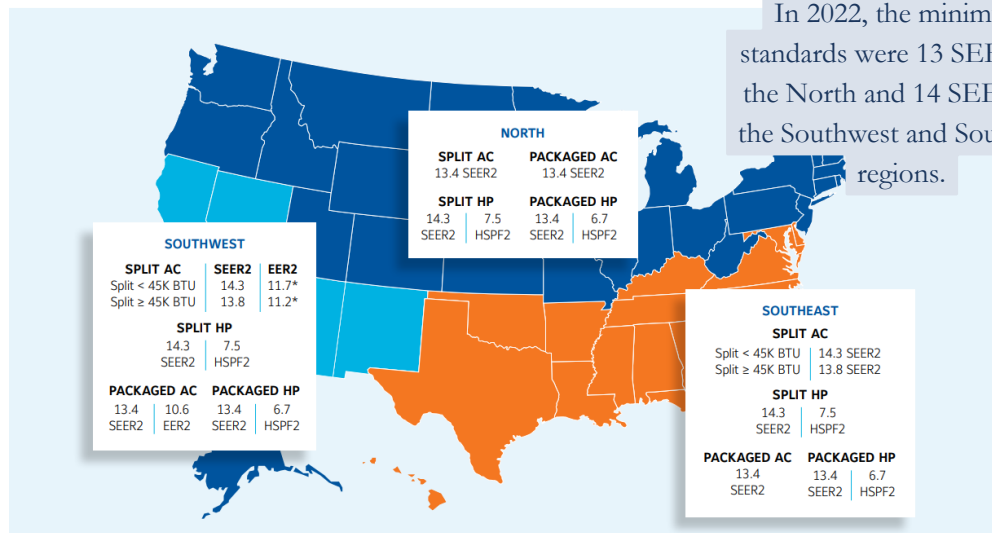


## SEER2, EER2, and HSPF 2 Quick Guide

All “RESIDENTIAL” air conditioners AND Heat Pumps must comply with the Department of Energy’s minimum efficiency standard requirements on January 1st, 2023.



2023 REGIONAL EFFICIENCIES FOR SPLIT AC, SPLIT HP AND PACKAGED UNITS



In 2022, the minimum standards were 13 SEER for the North and 14 SEER for the Southwest and Southeast regions.

## Resources



SEER2, EER2, HSPF2, Video



SEER2, EER2, HSPF2 Podcast

-The new residential testing procedure raised the ESP to better reflect real life conditions.

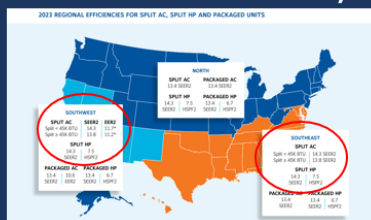
-The testing requirements will be more stringent but also more accurate. The new metrics will be referred to as SEER2, HSPF2, and EER2 as found in AHRI 210/240-2023 (2020).

-These testing procedure changes ONLY apply for single-phase equipment less than or equal to 65,000 Btuh.

-In the North, a/c products manufactured through 2022, which meet the energy efficiency requirements in place when they were made, can be installed in 2023.

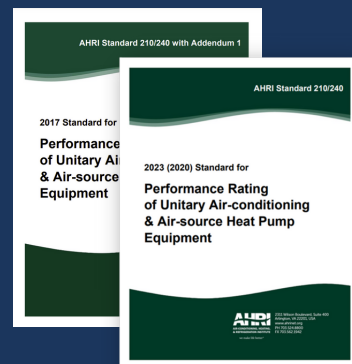
-But in the Southeast and Southwest, a/c units installed after December 31, 2022, must meet or exceed the new efficiency standards, as expressed by the new metrics, or meet or exceed the roughly equivalent standards under the older measurement system. In the Southwest, a/c units must also meet the applicable EER2 (or equivalent EER) minimums.

### Installed After 12.31.22 in SE,SW



Meet new metrics or “Equivalency” scenario

1. Previously sold in the region
2. No longer in production



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## AHRI Directory



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# SEER2, EER2, and HSPF 2 Quick Guide

All “RESIDENTIAL” air conditioners AND Heat Pumps must comply with the Department of Energy’s minimum efficiency standard requirements on January 1st, 2023.



## New Residential Testing Procedure:

The new residential testing procedure raised the ESP to better reflect real life conditions.

D 210/240-2017 with Addendum 1

Table 11. Minimum External Static Pressure for Ducted Systems Tested with an Indoor AMS Installed		
Rated Cooling <sup>1</sup> or Heating <sup>2</sup> Capacity, Btu/h	Minimum External Resistance <sup>3</sup> , in H <sub>2</sub> O	
	All Other Systems	Small-duct, High-velocity Systems <sup>4</sup>
Up Through 28,800	0.10	1.10
29,000 to 42,500	0.15	1.15
43,000 to 65,000	0.20	1.20

AHRI STANDARD 210/240-2023 (2020)

Table 10. Minimum ESP for Ducted Systems Tested with an Indoor AMS Installed	
Product Type <sup>1</sup>	Minimum ESP (in H <sub>2</sub> O) <sup>2</sup>
Conventional (i.e., all central air conditioners and heat pumps not otherwise listed in this table)	0.50
Ceiling-mount and Wall-mount Blower-coil Systems	0.30
Mobile Home Blower-coil Systems	0.30
Low-static Blower-coil Systems	0.10
Mid-static Blower-coil Systems	0.30
Small-duct, High-velocity	1.15
Space Constrained Product	0.30
Notes: 1. Refer to Definitions, Section 3. 2. For ducted units tested without an air filter installed, increase the applicable tabular value by 0.08 in H <sub>2</sub> O. 3. If a closed-loop, air-enthalpy test apparatus is used on the indoor side, limit the resistance to airflow on the inlet side of the indoor blower coil to a maximum value of 0.1 in H <sub>2</sub> O	

## AHRI 210/240-2023 (2020)

These testing procedure changes ONLY apply for single-phase equipment less than or equal to 65,000 Btu/h as defined here.

### Section 2. Scope

**2.1 Scope.** This standard applies to factory-made Unitary Air-conditioners and Unitary Air-source Heat Pumps with capacities less than 65,000 Btu/h as defined in Section 3.

**2.1.1 Energy Source.** This standard applies only to electrically operated, vapor compression refrigeration systems.

**2.2 Exclusions.** This standard does not apply to the rating and testing of:

**2.2.1** Heat operated air-conditioning/heat pump equipment.

**2.2.2** Packaged Terminal Air-conditioners/Heat Pumps, as defined in AHRI Standard 310/380.CSA C744.

**2.2.3** Room air-conditioners/heat pumps.

**2.2.4** Unitary Air-conditioners and Unitary Air-source Heat Pumps as defined in AHRI Standard 340/360 with capacities of 65,000 Btu/h or greater.

**2.2.5** Water-source Heat Pumps, Ground Water-source Heat Pumps, or ground-source closed-loop Heat Pumps as defined in ISO/ANSI/ASHRAE/AHRI Standards 13256-1 and 13256-2.

**2.2.6** Water heating heat pumps.

**2.2.7** Units equipped with desuperheater/water heating devices in operation.

**2.2.8** Variable Refrigerant Flow Air Conditioners and Heat Pumps as defined in AHRI Standard 1230 with capacities of 65,000 Btu/h and greater.

**2.2.9** Single Packaged Vertical Units as defined in ANSI/AHRI Standard 390.

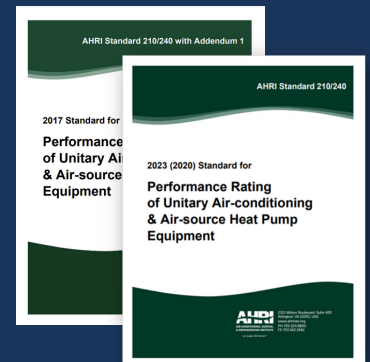
## Resources



SEER2, EER2, HSPF2, Video



SEER2, EER2, HSPF2 Podcast



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