

Mandatory Requirements (continued)

Federal Minimum Efficiency Requirements for Split System Heat Pump and Air-conditioning Units



Mandatory Requirements

Department of Energy (DOE) minimum efficiencies for central air conditioners and heat pumps will increase on January 1, 2023. HVAC manufacturers will also be required to comply with a new testing procedure and efficiency ratings for SEER2, EER2 and HSPF2. Minimum central heat pump efficiency ratings will change to HSPF2 and SEER2 based on when the equipment was manufactured. Minimum central air-conditioner efficiency ratings will change to SEER2 and EER2 based on when the equipment was installed.

Configuration	Manufactured BEFORE 1/1/2023		Manufactured AFTER 1/1/2023*	
	HSPF	SEER	HSPF2	SEER2
Packaged	8.0	14.0	6.7	13.4
Split (including ductless)	8.2	14.0	7.5	14.3
Space-constrained	7.4	12.0	6.3	11.9
Small Duct, High-velocity	7.2	12.0	6.1	12.0

HSPF = heating season performance factor; **SEER** = seasonal energy efficiency ratio.
 * Systems manufactured after 1/1/2023 must meet the newer HSPF2/SEER2 requirements and cannot use HSPF or SEER.
 Adapted from Table 4-3 of the 2022 Residential Compliance Manual (based on Title 20).

Table 6. Minimum Heating and Cooling Efficiencies – Single-phase, Air-source Heat Pumps with Cooling Capacity < 65,000 Btuh

Configuration	Rated Cooling Capacity (Btuh)	Installed BEFORE 1/1/2023		Installed AFTER 1/1/2023*	
		SEER	EER	SEER2	EER2
Split System	< 45,000	14.0	12.2	14.3	11.7/9.8**
	≥ 45,000	14.0	11.7	13.8	11.2/9.8**
Single Package	< 65,000	14.0	11.0	13.4	10.6
Space-constrained	< 30,000	12.0***	No minimum	11.7***	No minimum

SEER = seasonal energy efficiency ratio; **EER** = energy efficiency ratio.
 * Systems installed after 1/1/2023 must meet the newer SEER2/EER2 requirements regardless of manufacture date. They cannot use SEER or EER.
 ** For systems with 15.2 SEER2 or greater, the minimum EER2 requirement is 9.8.
 *** Use manufacture date, not installation date for space-constrained units.
 Adapted from Table 4-6 of the 2022 Residential Compliance Manual (based on Title 20 and Table C-3 and federal appliance standards).

Table 7. Minimum Cooling Efficiencies – Central Air Conditioners (not Heat Pumps) with Cooling Capacity < 65,000 Btuh

