

CEESM Residential Heating and Cooling Systems Initiative

Effective January 15, 2021

Electric Equipment

Scope: Input Rating ≤65,000 BTU/h

CEE Split Central Air Conditioner (CAC) Specification

Level	SEER	EER
CEE Tier 1	≥ 16.0	≥ 12.5
CEE Tier 2	≥ 18.0	≥ 13.0

CEE Packaged Central Air Conditioner (CAC) Specification

Level	SEER	EER
CEE Tier 1	≥ 15.0	≥ 12.0
CEE Tier 2	≥ 16.0	≥ 12.0

CEE Split Air Source Heat Pump (ASHP) Specifications

South and Southwest Split ASHP Specification

Level	SEER	EER	HSPF	Optional Capacity Ratio at 17° F/47° F
CEE Tier 1	≥ 15.0	≥ 12.5	≥ 8.5	≥ 56%
CEE Tier 2	≥ 16.0	≥ 12.5	≥ 9.0	≥ 56%
CEE Tier 3	≥ 18.0	≥ 13.0	≥ 9.5	≥ 56%

North and Canada Split ASHP Specification

Level	SEER	EER	HSPF	Capacity Ratio at 17° F/47° F
CEE Tier 1	≥ 15.0	≥ 11.0	≥ 9.0	≥ 56%
CEE Tier 2	≥ 16.0	≥ 11.0	≥ 9.5	≥ 56%
CEE Tier 3	≥ 18.0	≥ 11.5	≥ 10.0	≥ 56%

CEE Mini-Split (Single Zone Non-Ducted) ASHP Specification

Level	SEER	EER	HSPF	Capacity Ratio at 17°F/47°F [^]
CEE Tier 1	≥ 18.0	≥ 11.0	≥ 10.0	≥ 56%

[^] Rated Capacity is an optional requirement for South and Southwest DOE climates

CEE Packaged Air Source Heat Pump (ASHP) Specification

Level	SEER	EER	HSPF	Capacity Ratio at 17°F/47°F [^]
CEE Tier 1	≥ 15.0	≥ 12.0	≥ 8.5	≥ 56%
CEE Tier 2	≥ 16.0	≥ 12.0	≥ 9.0	≥ 56%

[^] Rated Capacity is an optional requirement for South and Southwest DOE climates

CEE Energy Management Criteria

Scope: Electric and Gas, Any System

Energy Management Capability Requirements	
A	The ability to report operational status of the product or system upon request.
B	The ability for remote operation [^] of the product or system by a customer-authorized third party.
C	The ability for the customer to override ^{^^} remote changes of load states.
D	The ability for firmware updates to the product or connected control for a system, to ensure that reliability and cybersecurity remain current with little to no consumer interaction.

[^] The ability to manage functions by receiving signals from a control system external to the native system via a secure connection from a remote communication interface. This can be for the consumer (e.g., via a smartphone app or website), or a customer authorized third party such as the utility, manufacturer, or home energy management operator.

^{^^} The ability for a consumer to cancel a grid request sent to the equipment via a secure connection for no more than a set certain timeline (e.g., 72 hours).

CEE Demand Response Criteria

Scope: Electric Variable Capacity HVAC Systems, as defined in [AHRI Standard 1380](#)

Level	Requirements
CEE Tier 1	AHRI Standard 1380 as is: Either ANSI/CTA-2045-A OR OpenADR 2.0 communication interfaces.
CEE Tier 2	Both ANSI/CTA-2045-A AND OpenADR 2.0 communication interfaces; An open modular physical interface of ANSI/CTA-2045-A; and a secondary communication interface to facilitate customer interactions.

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